LINCOLN COUNTY Local Emergency Planning Committee (LEPC) Wednesday, December 13, 2023 at 2:30 pm Service Center: Rm. 257, County Board Room

Electronic Attendance Available: Persons wishing to attend the meeting electronically may enter the meeting prior to the start time indicated above using the following number or address:

Conference Call: +1 (806) 316-5482 Access Code: 405 838 389 # Meeting ID: https://tel.meet/sxz-bvua-rag?pin=4095745596356

The teleconference cannot start until the host (department head) dials in and enters the host password. In the event there is an unforeseen technical difficulty that prevents all or a part of the meeting from being available electronically, the meeting will continue in person and those wishing to attend can appear in person at the location indicated in this agenda.

Attendance Policy: All public participants' phones, microphones and chat dialog boxes must be muted or disabled during the meeting.

AMENDED AGENDA

- 1. Call Meeting to Order
- 2. Approve Minutes November 8, 2023
- 3. Presentation from Kurt Kotenberg, *Warning Coordination Meteorologist*, from the National Weather Service
- 4. Public Comment
- 5. Spill Report(s)
 - a. Spill Report #19868
 - b. *Spill Report #19938
- 6. Approval of EPCRA Tier II Off Site Plans
 - a. City of Merrill—Wastewater
 - b. Frontier (Merrill)
 - c. Frontier (Tomahawk)
 - d. Interflex Group
 - e. Mitchell Metal Products
 - f. Northern Wire LLC
 - g. Packaging Corporation of America
 - h. Samuel, Son & Company
- 7. Approval of EPCRA County Wide Hazardous Material Strategic Plan
- 8. Set Next Meeting Date; Adjourn

DISTRIBUTION: Local Emergency Planning Committee Members—Rick Burns, Elizabeth McCrank, Josh Klug, Cheryl Skoug, Michael Caylor, Other County Supervisors, Department Heads, and Local Media

Posted on:_____

at:______ a.m./p.m.

by:____

There may be a quorum of other Lincoln County committees present at this meeting. Requests for reasonable accommodations for disabilities or limitations should be made prior to the date of this meeting. You may contact the County Clerk at 715.539.1019. Please do so as early as possible so that proper arrangements can be made. Requests are kept confidential.

GENERAL REQUIREMENTS:

1. Must be held in a location which is reasonably accessible to the public.

2. Must be open to all members of the public unless the law specifically provides otherwise.

NOTICE REQUIREMENTS:

- 1. In addition to any requirements set forth below, notice must also be in compliance with any other specific statue.
- 2. Chief presiding officer or his/her designee must give notice to the official newspaper and to any members of the news media likely to give notice to the public.

MANNER OF NOTICE:

Date, time, place, and subject matter, including subject matter to be consider in a closed session, must be provided in a manner and form reasonably likely to give notice to the public.

TIME FOR NOTICE:

- 1. Normally, a minimum of 24 hours prior to the commencement of the meeting.
- 2. No less than 2 hours prior to the meeting if the presiding officer establishes there is a good cause that such notice is impossible or impractical.

EXEMPTIONS FOR COMMITTEES AND SUB-UNITS:

Legally constituted sub-units of a parent governmental body may conduct a meeting during the recess or immediately after the lawful meeting to act or deliberate upon a subject which was the subject of the meeting, provided the presiding officer publicly announces the time, place, and subject matter of the sub-unit meeting in advance of the meeting of the parent governmental body.

PROCEDURE FOR GOING INTO CLOSED SESSION:

- 1. Motion must be made, seconded, and carried by roll call majority vote and recorded in the minutes.
- 2. If motion is carried, chief presiding officer must advise those attending the meeting of the nature of the business to be conducted in the closed session, and the specific statutory exemption under which the closed session is authorized.

STATUTORY EXEMPTIONS UNDER WHICH CLOSED SEESIONS ARE PERMITTED:

- 1. Deliberation of judicial or quasi-judicial matters. Sec. 19.85(1)(a)
- 2. Considering dismissal, demotion, or discipline of any public employee or the investigation of charges against such person and the taking of formal action on any such matter; provided that the person is given actual notice of any evidentiary hearing which may be held prior to final action being taken and of any meeting at which final action is taken. The person under consideration must be advised of his/her right that the evidentiary hearing be held in open session and the notice of the meeting must state the same. Sec. 19.85(1)(b).
- 3. Considering employment, promotion, compensation, or performance evaluation data of any public employee. Sec. 19.85(1)(c).
- 4. Considering strategy for crime detection or prevention. Sec. 19.85(1)(d).
- 5. Deliberating or negotiating the purchase of public properties, the investing of public funds, or conducting other specified public business whenever competitive or bargaining reasons require a closed session. Sec. 19.85(1)(c).
- 6. Considering financial, medical, social, or personal histories or disciplinary data of specific persons, preliminary consideration of specific personnel problems or the investigation of specific charges, which, if discussed in public would likely have an adverse effect on the reputation of the person referred to in such data. Sec. 19.85(1)(f).
- 7. Conferring with legal counsel concerning strategy to be adopted by the governmental body with respect to litigation in which it is or is likely to become involved. Sec. 19.85(1)(g).
- 8. Considering a request for advice from any applicable ethics board. Sec. 19.85(1)(h).

CLOSED SESSION RESTRICTIONS:

- 1. Must convene in open session before going into closed session.
- 2. May not convene in open session, then convene in closed session and thereafter reconvene in open session with twelve (12) hours <u>unless</u> proper notice of this sequence was given at the same time and in the same manner as the original open meeting.
- 3. Final approval or ratification of a collective bargaining agreement may not be given in closed session.

BALLOTS, VOTES, AND RECORDS:

- 1. Secret ballot is not permitted except for the election of officers of the body or unless otherwise permitted by specific statutes.
- 2. Except as permitted above, any member may require that the vote of each member be ascertained and recorded.
- 3. Motions and roll call votes must be preserved in the record and be available for public inspection.

USE OF RECORDING EQUIPMENT:

The meeting may be recorded, filmed, or photographed, provided that it does not interfere with the conduct of the meeting or the rights of the participants.

LEGAL INTERPRETATION:

- 1. The Wisconsin Attorney General will give advice concerning the applicability or clarification of the Open Meeting Law upon request.
- 2. The municipal attorney will give advice concerning the applicability or clarification of the Open Meeting Law upon request.

PENALTY:

Upon conviction, any member of a governmental body who knowingly attends a meeting held in violation of Subchapter IV, Chapter 19, Wisconsin Statutes, or who otherwise violates the said law shall be subject to forfeiture of not less than \$25.00 nor more than \$300.00 for each violation.

LOCAL EMERGENCY PLANNING COMMITTEE Wednesday, November 8, 2023, 2:30 PM Meeting Location: Room 255/257/260 Government Services Center

801 N. Sales St., Merrill, WI 54452

MEMBERS PRESENT: Elizabeth McCrank, Cheryl Skoug, Chris Marlowe, and Tyler Verhasselt MEMBERS EXCUSED: None MEMBERS ABSENT: Michael Caylor VISITORS IN PERON: Renee Krueger VIRTUAL ATTENDANCE: Rick Burns, Josh Klug and Kevin McFadden

MINUTES

- 1. Call Meeting to Order by McCrank at 2:32 pm.
 - a. Due to not being able to attend in-person and experiencing technical difficulties, Burns designated McCrank to run meeting.
- 2. Approved Minutes of October 11, 2023; M/S Verhasselt/Skoug—carried.
- 3. Virtual presentation from Watco and Fox Valley & Lake Superior Rail System by Ken Lucht, Assistant Vice President of Government and Industry Relations, and Jason Danz, General Manager.
- 4. Public Comment: None
- 5. Spill Reports: None
- 6. Local Emergency Planning Committee Review:
 - a. Appointments:
 - i. Group 3, Broadcast and Print Media: Jennifer Gartmann, Merrill Foto News
 - ii. Group 5, *Tier II Owner/Operator*: James Kelly, Mitchell Metal Products
- 7. Wisconsin Emergency Management EPCRA Facility Reporting and Planning Section (WHOPRS) Access for LEPC
 - a. Verhasselt presented option for obtaining committee access to Wisconsin Emergency Management (WEM) database regarding EPCRA.
 - b. Verhasselt will request Lincoln County IT create LEPC account so that LEPC can utilize a username for WHOPRS database. Will present at next meeting.
- 8. Next Meeting set for December 13, 2023 at 2:30 pm.
- 9. Meeting adjourned at 3:20 pm.

Minutes prepared by: Tyler Verhasselt



Tyler Verhasselt <tyler.verhasselt@co.lincoln.wi.us>

WI SPILL #19868 ID 20231110NO35-1 - GEAR OIL [ENGINE OIL]

1 message

dnrlehotline@wisconsin.gov <dnrlehotline@wisconsin.gov> To: tyler.verhasselt@co.lincoln.wi.us Fri, Nov 10, 2023 at 11:27 AM

SERTS ID: 20231110NO35-1

Reported: 11/10/2023 11:16

Occurred: 11/10/2023 09:00

Substance: GEAR OIL [ENGINE OIL] Released Amt: 1 Qt Recovered Amt: UNKNOWN (AMOUNTS ARE OFTEN ESTIMATED)

Reported by: ROBERT NIMMO SET ENVIRONMENTAL rnimmo@setenv.com (262) 221-5297 Also RP Contact

Location: NO REGION LINCOLN COUNTY TOMAHAWK, CITY OF TOMAHAWK HYDRO ELECTRIC PLANT 6080 PRIDE POND RD DOWNSTREAM SIDE OF TOMAHAWK HYDRO ELECTRIC PLANT

Responsible Party: WISCONSIN PUBLIC SERVICE CORPORATIONN UNKNOWN UNKNOWN, WI (000) 000-0000

Cause: UNKNOWN

Cause Description: ENVIRONMENTAL CAUSE UNKNOWN AT THIS TIME.

Environmental Impact: MADE IT INTO THE WISCONSIN RIVER.

Cleanup: CONTAINED WITH BOOM, WORKING ON RECOVERY AND CLEAN UP NOW

Notified JEFF PADDOCK - TEXT by Phone

Submitted by: KATHERINE SOLTYS (800) 943-0003 dnrlehotline@wisconsin.gov

Sent to: aleshia kenney@fws.gov bart.sponseller@wisconsin.gov bbyrne@glifwc.org bradleya.johnson@wisconsin.gov brownfields@badriver-nsn.gov carl.stenbol@widma.gov caroline.rice@wisconsin.gov christine.haag@wisconsin.gov christopher.saari@wisconsin.gov claire.oconnell@wisconsin.gov codyw.heinze@wisconsin.gov connor.mulcahy@wisconsin.gov curtis.hedman@dhs.wisconsin.gov daniel.gellert@co.taylor.wi.us danielle.wincentsen@wisconsin.gov david.neste@wisconsin.gov dee.allen@ldftribe.com dmawemdutyofficer@wisconsin.gov dnrledo@wisconsin.gov dnrlehotline@wisconsin.gov echapman@ldftribe.com eric.struck@wisconsin.gov falon.french@wisconsin.gov grieve.malcolm@epa.gov issac.ross@wisconsin.gov jane.pfeiffer@wisconsin.gov janell.rucinski@wisconsin.gov jayson.schrank@wisconsin.gov jeffrey.paddock@wisconsin.gov john.sager@wisconsin.gov john_nelson@ios.doi.gov josie.hanrahan@wisconsin.gov khanson@ldftribe.com kondreck.robert@epa.gov ldfthpo@ldftribe.com linda.nguyen@redcliff-nsn.gov luke.reuteman@wisconsin.gov maizie.reif@wisconsin.gov margaret.thelen@wisconsin.gov matthewa.thompson@wisconsin.gov natashak.gwidt@wisconsin.gov nathan.kloczko@dhs.wisconsin.gov nicholas.ramos@wisconsin.gov noah.saperstein@redcliff-nsn.gov nrdirector@badriver-nsn.gov peter.raymond@wisconsin.gov philip.richard@wisconsin.gov richard.joslin@wisconsin.gov riley.neumann@wisconsin.gov rnimmo@setenv.com roxanne.chronert@wisconsin.gov roy.irving@dhs.wisconsin.gov sarahp.yang@dhs.wisconsin.gov shanem.goss@wisconsin.gov sonya.rowe@wisconsin.gov stephend.mueller@wisconsin.gov teresa.erler@widma.gov timothy.haas@widma.gov trenton.brenny@wisconsin.gov trevor.nobile@wisconsin.gov trevora.bannister@wisconsin.gov

tyler.dix@wisconsin.gov tyler.verhasselt@co.lincoln.wi.us zachary.henderson@wisconsin.gov zana.sijan@wisconsin.gov



Tyler Verhasselt <tyler.verhasselt@co.lincoln.wi.us>

WI SPILL #19938 ID 20231206NO35-1 - GASOLINE

1 message

dnrlehotline@wisconsin.gov <dnrlehotline@wisconsin.gov> To: tyler.verhasselt@co.lincoln.wi.us Wed, Dec 6, 2023 at 6:33 PM

SERTS ID: 20231206NO35-1

Reported: 12/06/2023 18:18

Occurred: 12/06/2023 17:40

Substance: GASOLINE

AMOUNT RELEASED AND AMOUNT RECOVERED ARE UNKNOWN AT THIS TIME

Reported by: LINCOLN CO DISPATCH LINCOLN CO DISPATCH (715) 536-6272 Also RP Contact

Location: NO REGION LINCOLN COUNTY GLEASON, UNINCORPORATED RURAL ROADWAY AXEN RD AND PRAIRIE FORKS DR AXEN RD AND PRAIRIE FORKS DR GLEESON WI

Responsible Party: UNKNOWN

Cause: VEHICLE OR VESSEL COLLISION

Cause Description: SINGLE VEHICLE ACCIDENT, INJURY ASSOCIATED WITH CRASH. VEHICLE LEFT ROAD AND IS SUBMERGED IN SWAMP/MARSH AREA

Environmental Impact: GASOLINE/AUTO FLUIDS LIKELY BEING RELEASED INTO WATER IN AREA, NO VISUAL CONFIRMATION BUT FD ON SCENE CAN SMELL FLUIDS.

Weather: NIGHT

Comments: RUSSEL FIRE DEPARTMEN IS ON SCENE, CONTACT LINCOLN CO DISPATCH FOR FOLLOWUP

Cleanup: CLEAN-UP PROGRESS UNKNOWN OR CLEAN-UP NOT STARTED. Notified SPOKE W/ OCSC TREVOR BANNISTER WDNR 1823 by Phone

Submitted by: OWEN THOMPSON (800) 943-0003 dnrlehotline@wisconsin.gov

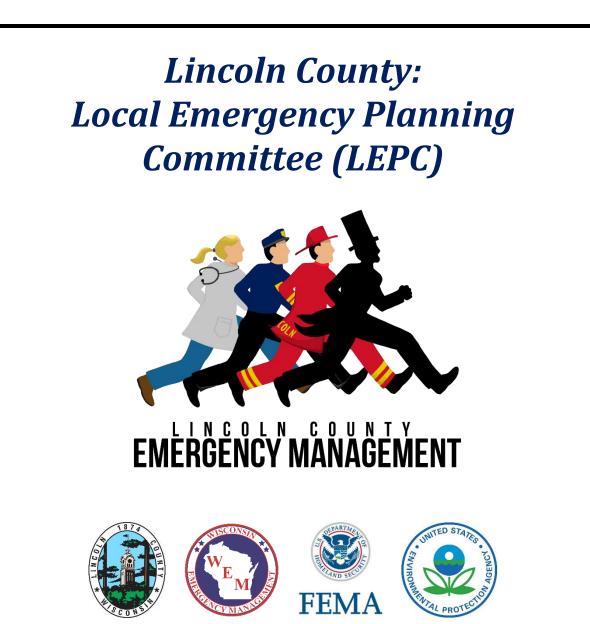
Sent to:

aleshia kenney@fws.gov amanda.koch@dhs.wisconsin.gov bart.sponseller@wisconsin.gov bbyrne@glifwc.org bradleya.johnson@wisconsin.gov brownfields@badriver-nsn.gov carl.stenbol@widma.gov caroline.rice@wisconsin.gov christine.haag@wisconsin.gov christopher.saari@wisconsin.gov claire.oconnell@wisconsin.gov codyw.heinze@wisconsin.gov connor.mulcahy@wisconsin.gov curtis.hedman@dhs.wisconsin.gov daniel.gellert@co.taylor.wi.us danielle.wincentsen@wisconsin.gov david.neste@wisconsin.gov dee.allen@ldftribe.com dmawemdutyofficer@wisconsin.gov dnrledo@wisconsin.gov dnrlehotline@wisconsin.gov echapman@ldftribe.com eric.struck@wisconsin.gov falon.french@wisconsin.gov grieve.malcolm@epa.gov issac.ross@wisconsin.gov jane.pfeiffer@wisconsin.gov janell.rucinski@wisconsin.gov jayson.schrank@wisconsin.gov jeffrey.paddock@wisconsin.gov john.sager@wisconsin.gov john_nelson@ios.doi.gov josie.hanrahan@wisconsin.gov khanson@ldftribe.com kondreck.robert@epa.gov ldfthpo@ldftribe.com linda.nguyen@redcliff-nsn.gov luke.reuteman@wisconsin.gov maizie.reif@wisconsin.gov margaret.thelen@wisconsin.gov matthewa.thompson@wisconsin.gov natashak.gwidt@wisconsin.gov nathan.kloczko@dhs.wisconsin.gov nicholas.ramos@wisconsin.gov noah.saperstein@redcliff-nsn.gov nrdirector@badriver-nsn.gov peter.raymond@wisconsin.gov philip.richard@wisconsin.gov richard.joslin@wisconsin.gov riley.neumann@wisconsin.gov roxanne.chronert@wisconsin.gov roy.irving@dhs.wisconsin.gov sarahp.yang@dhs.wisconsin.gov shanem.goss@wisconsin.gov sonya.rowe@wisconsin.gov stephend.mueller@wisconsin.gov

12/11/23, 10:11 AM

LINCOLN COUNTY, WI Mail - WI SPILL #19938 ID 20231206NO35-1 - GASOLINE

teresa.erler@widma.gov timothy.haas@widma.gov trenton.brenny@wisconsin.gov trevor.nobile@wisconsin.gov trevora.bannister@wisconsin.gov tyler.dix@wisconsin.gov tyler.verhasselt@co.lincoln.wi.us zachary.henderson@wisconsin.gov zana.sijan@wisconsin.gov



2023 Off Site Plan: City of Merrill – Wastewater

Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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I. Facility Information

A. City of Merrill--Wastewater

- 1. Address: 1004 East 1st Street, Merrill, WI 54452
- 2. Phone: (715) 536-6561
- 3. Facility ID # (Assigned by WEM): 60969

II.Facility Emergency Contacts

A. Tier II Contact:

- 1. Name: Gabe Steinagel
- 2. Position: Utility Manager
- 3. Office Phone: (715) 536-6561
- 4. Emergency Phone: (715) 218-1849
- 5. Email: Gabriel.steinagel@ci.merrill.wi.us

B. Tier II Emergency Coordinator:

- 1. Name: Josh Klug
- 2. Position: Merrill Fire Department—Chief
- 3. Emergency Phone: (715) 536-6561
- 4. Emergency Phone: (715) 218-0815
- 5. Email: josh.klug@ci.merrill.wi.us

III. Extremely Hazardous Substances (EHS)

A. EHS Chemicals OVER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
7782-50-5	Chlorine	1,350	1,350	> 10 miles

IV. Primary Emergency Responders

A. Lincoln County Sheriff's Office

1. Phone: 911 or (715) 563-6272

B. Lincoln County Sheriff's Office Emergency Communications Center

1. Phone: 911 or (715) 563-6272

C. Lincoln County Emergency Management

1. Phone: (715) 218-0128

D. Merrill Fire Department

1. Phone: 911 or (715) 536-2233

E. Merrill Police Department

1. Phone: 911 or (715) 536-8311

V. Support Available at Facility

A. Chemical Emergency Monitoring Equipment:

1. OSHA-required air monitoring equipment.

B. Personal Protective Equipment:

1. None

C. Other Equipment or Supplies:

1. City of Merrill employs a full-time fire service which is capable of handling minor hazardous materials incidents.

D. Outside Resources Available:

- 1. Lincoln County Emergency Management
 - a) Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

- 2. Chemtrec: (800) 424-9300
 - a) Unknown response time
- 3. National Response Center: (800) 424-8802
 - *a)* Unknown response time
- 4. REI—Spill & Response Recovery: (800) 734-7745
 - a) Unknown response time

VI. General information and Assumptions (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA) Technical Guidance for Hazard Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of an EHS occur.

A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the hazard analysis summary.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO*fm* cannot compute zones greater than 10 miles nor less than 0.1 miles. Thus, results that fall into these situations will be notes as "> 10 miles" or "< 0.1 miles".

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

VII. Hazard Analysis Summary

The City of Merrill—Wastewater is a treatment plant for the residents for the city. The treatment plant is located on the south-east side of the city near the banks of the Wisconsin River. The treatment plant is manned from 7:00 AM to 3:30 PM every day of the year. In regards to electrical malfunction and flooding there are alarms wired to an auto-dialer which goes directly to Merrill Police Department for 24-hour protection.

A. Greatest Potential for Release

1. The greatest potential for release is a 1,350 lb cylinder of chlorine at the facility.

B. Vulnerability Zones (by chemical)

Chlorine: CAS #7782-50-5					
Amount Released:	1,350 lbs.	1,350 lbs.			
Concentration:	100%				
Physical State:	Gas				
Diked Area:	No				
Level of Concern (LOC):	0.073 gm/m^3				
LOC Type:	Greenbook LOC				
Worst Case Scenario		Re-Evaluation Scenario	Re-Evaluation Scenario		
Duration:	10 minute	s Duration	10 minutes		
Wind Speed:	3.4 mph	Wind Speed:	11.9 mph		
Ground Roughness: Rur		Ground Roughness:	Urban		
Atmospheric Stability Class: F		Atmospheric Stability Class:	D		
Risk:	Low	Risk:	Low		
Consequences:	Low	Consequences:	Low		
Overall Risk:	Low	Overall Risk:	Low		
Threat Zone Radius:	> 10 miles	s Threat Zone Radius:	0.4 miles		

C. Estimation of Population Affected

- 1. Chlorine
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance has the potential of 9,337 of the general population and twenty (20) special facilities.
 - b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance has the potential of 9,337 of the general population and one (1) special facilities affected.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

D. Critical Infrastructure

- 1. City of Merrill-Wastewater
 - a) 1004 East 1st Street, Merrill, WI 54452
 - b) (715) 536-6561

E. Hospital

- 1. Aspirus Merrill Hospital
 - a) 601 South Center Avenue, Merrill, WI 54452
 - b) (715) 536-5511

F. Nursing Homes/Assisted Living Facilities

- 1. Pine Crest Nursing Home
 - a) 2100 East 6th Street, Merrill, WI 54452
 - b) (715) 536-0355
- 2. Bell Tower Residence Assisted Living
 - a) 1500 O Day Street, Merrill, WI 54452
 - b) (715) 841-9895
- 3. Woodland Court Elder Services, LLC.
 - a) 1102 South Center Avenue, Merrill, WI 54452
 - b) (715) 536-3399
- 4. Kindhearted Home Care, LLC.
 - a) 120 South Mill Street, Merrill, WI 54452
 - b) (715) 218-3772
- 5. Merrill Senior Center
 - a) 303 North Sales Street, Merrill, WI 54452
 - b) (715) 536-4226

- 6. Our Way, Inc.
 - a) 1207 West Taylor Street #700B, Merrill, WI 54452
 - b) (715) 722-0980

G. Schools

- 1. Merrill High School
 - a) 1201 North Sales Street, Merrill, WI 54452
 - b) (715) 536-4594
- 2. Prairie River Middle School
 - a) 106 North Polk Street, Merrill, WI 54452
 - b) (715) 536-9593
- 3. Washington Elementary School
 - a) 1900 East 6th Street, Merrill, WI 54452
 - b) (715) 536-2373
- 4. Kate Goodrich Elementary School
 - a) 505 West 10th Street, Merrill, WI 54452
 - b) (715) 536-5233
- 5. Trinity Merrill Lutheran School
 - a) 611 West Main Street, Merrill 54452
 - b) (715) 536-7501
- 6. Merrill Adult Diploma Academy
 - a) 1004 East Street, Merrill, WI 54452
 - b) (715) 536+1431

H. Child Care/Day Care

- 1. Merrill Child Care
 - a) 503 South Center Avenue, Merrill, WI 54452
 - b) (715) 539-2477
- 2. Trinity Lutheran Child Care
 - a) 201 Strange Street, Merrill, WI 54452
 - b) (715) 722-0523
- 3. Crystal's Country Daycare
 - a) W5398 Taylor Street, Merrill, WI 54452
- 4. Parkside Pre-School Center
 - a) 207 East 1st Street, Merrill, WI 54452
 - b) (715) 536-7716
- 5. Tender Hearts, Precious Moments
 - a) 1209 Jackson Street, Merrill, WI 54452
 - b) (715) 409-9849
- 6. Merrill Head Start
 - a) 1107 North Sales Street
 - b) (715) 539-8361

- 7. Believe & Achieve Learning & Recreational Center
 - a) 101 East 1st Street, Merrill, WI 54452
 - b) (715) 539-3444

VIII. Population Protection

The determination to shelter in-place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter-in-place. Preferred areas for protective sheltering would be interior hallways, rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.

IX. Special Considerations

A. None

X. Distribution List

- City of Merrill—Wastewater
- Merrill Fire Department
- Wisconsin Emergency Management Northeast Regional Office
- Oneida County Sheriff Office Hazardous Materials Response Team
- Wausau Wisconsin Hazardous Response Team
- Marathon County Emergency Management

XI. Supporting Documentation

A. Attachments

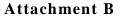
- 1. Attachment A, Record of Change and Review
- 2. Attachment B, Facility Layout and Site Information
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- 4. Attachment D, Safety Data Sheet for Chlorine
- 5. Attachment E, Vulnerability Zone Map for Chlorine

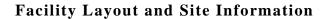
Attachment A

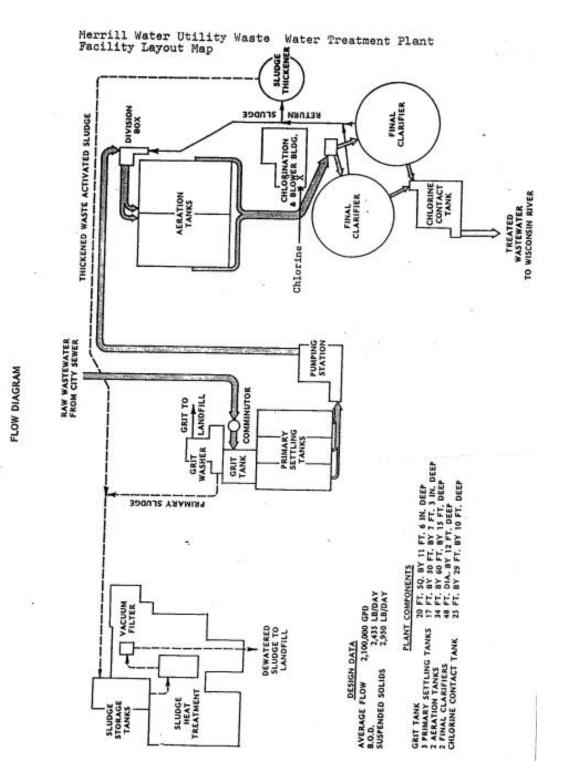
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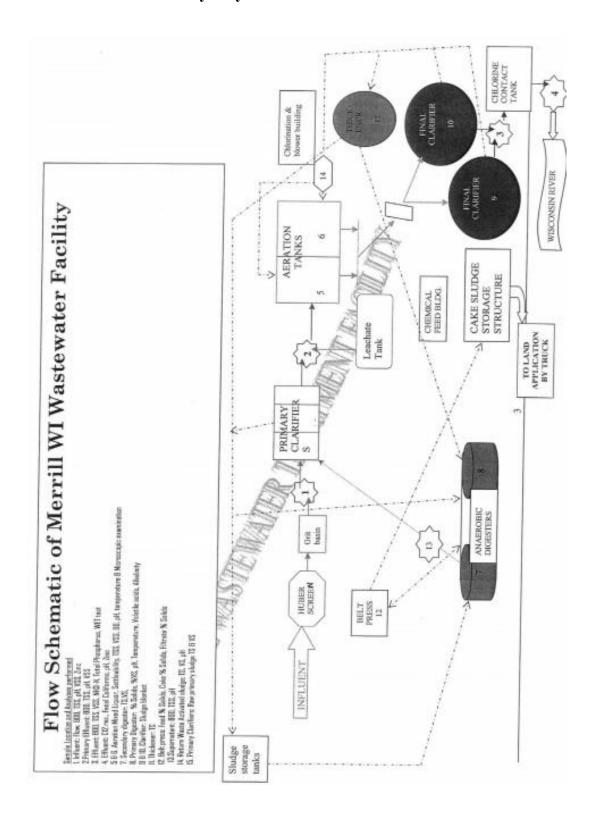
Date	Contributor	Description of Change	Page Number(s)
12-5-2023	T. Verhasselt and G. Steinagel	Authored plan and reviewed with City of Merrill for accuracy.	Pgs. 1-23

Please see EPCRA Hazardous Materials Off-Site Plan Transmittal Form for approval and signatures.









Attachment B cont. Facility Layout and Site Information

2023 Off Site Plan City of Merrill—Wastewater

Attachment C

Transportation Route Map



Attachment D

Safety Data Sheet for Chlorine

MATERIAL SAFETY DATA SHEET

CHLORINE Product ID: CL000000 Revised: 12-22-2009 Replaces: 12-22-2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Synonyms: CAS Number: Chemical Family: Formula:

Liquid Chlorine 7782-50-5 Halogen Cl2

CHLORINE

Hydrite Chemical Co. 300 N. Patrick Blvd. Brookfield, WI 53008-0948 (262) 792-1450 EMERGENCY RESPONSE NUMBERS: 24 Hour Emergency #: (414) 277-1311 CHEMTREC Emergency #: (800) 424-9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGERI CORROSIVE. TOXIC. Causes severe burns to eyes, skin, and respiratory tract. Liquified, nonflammable gas under pressure. Harmful or fatal if swallowed. Harmful or fatal if inhaled. May be harmful if absorbed through the skin. STRONG OXIDIZER! May ignite organic materials and react with other materials.

 Physical State:
 Liquid. Gas.

 Color:
 Amber. Greenish-yellow.

 Odor:
 Pungent irritating odor.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Absorption. Eyes. Ingestion. Inhalation. Skin.

Target Organs: Eyes. Respiratory System. Skin.

Eye Contact: CORROSIVE-Causes severe irritation and burns. Causes: permanent eye damage. blurred vision. blindness. May cause: frostbite. Contact with compressed liquid or escaping gas can cause frostbite injury.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Causes: permanent skin damage. Contact may cause: dermatitis (inflammation of the skin). frostbite. Contact with compressed liquid or escaping gas can cause frostbite injury.

Skin Absorption: May be harmful if absorbed through skin.

Inhalation: May be corrosive to the respiratory tract. Severe irritation and burns may result. Poison. May be fatal if inhaled. May irritate or burn: nose, throat, respiratory tract. May cause; central nervous system depression, permanent damage, pulmonary edema, circulatory failure, unconsciousness, death. Effects may be delayed.

Ingestion: This product is a gas at room temperature. Swallowing this material is unlikely. May cause damage to the: gastrointestinal tract. liver. kidneys. central nervous system. May cause: gastrointestinal irritation. nausea. vomiting. diarrhea.

Medical Conditions Aggravated by Exposure to Product: Respiratory system disorders. Asthma. Skin disorders. Bronchitis. Emphysema. Cardiovascular disorders.

Other: Repeated exposures can result in loss of ability to detect the odor of chlorine. Long term exposures may cause damage to teeth and inflammation or ulceration of the nasal passages. Long term overexposure may produce upper airway changes leading to an increased prevalence of colds, shortness of breath, and reactive airway dysfunction syndrome.

Cancer Information:

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

Potential Environmental Effects: See Section 12.

Safety Data Sheet for Chlorine

CHLORINE Product ID: CL000000		
3. COMPOSITION/INFORMATION ON INGREDIENTS		
Component Chlorine	CAS Number 7782-50-5	<u>% by Wt.</u> 99.5 - 100 %

4. FIRST-AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Washing eyes within several seconds is essential to achieve maximum effectiveness.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. Wash with soap and water. Do not attempt to remove frozen clothing from frostbitten areas.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY. Keep warm and quiet.

Ingestion: If swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Have person sip a glass of water if able to swallow.

Note to Physicians:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Probable mucosal damage may contraindicate the use of gastric lavage. Delayed pulmonary edema may occur 48-72 hours after exposure in individuals with alveolar injury. Treatments with steroids and bicarbonate have been reported.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use agent suitable for surrounding fire. DO NOT USE: Direct water stream.

Fire Fighting Methods: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers, but avoid getting water into containers. Stop flow of gas before extinguishing fire. Move containers from fire area if possible without hazard. Do not apply water to leaking containers. Use water spray to keep fire-exposed containers cool and to protect persons effecting shut-off. Fire fighters should wear a one piece, total-encapsulating suit of Butyl coated nylon or equivalent. Run-off from fire control may cause pollution.

Fire and Explosion Hazards: STRONG OXIDIZER. Capable of supporting combustion of certain substances. Reacts explosively, or forms explosive compounds, with many chemicals such as acetylene, turpentine, ether, ammonia gas, hydrogen, and finely divided metals. May ignite organic and other easily oxidizable materials. This product may react with certain metals to produce flammable Hydrogen Gas.

Hazardous Combustion Products: Toxic vapors.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean-Up Procedures: CORROSIVE MATERIAL, STRONG OXIDIZER. Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Keep upwind of leak or spill. Do not touch or walk through spilled material. Shut off source of leak if safe to do so. Do not apply water directly to a leak. Reacts with water to form corrosive, acidic solution (hydrochloric acid). Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing. Prevent entry into basements, low areas, or confined areas. If a container is leaking, try to position it so that the gas rather than the liquid leaks. Apply emergency kit device if possible. For other than minor leaks, immediately implement predetermined emergency plan. Report spills to appropriate government authorities. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

а

Safety Data Sheet for Chlorine

CHLORINE Product ID: CL000000

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. CORROSIVE MATERIAL. Personnel near or handling Chlorine, should AT ALL TIMES carry a NIOSH/MSHA-approved chemical cartridge type escape respirator and be trained in its use. Follow safety procedures for containers of compressed gases.

Storage: CORROSIVE MATERIAL. STRONG OXIDIZER. Store in a cool, well ventilated area away from all sources of ignition and out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Store below 131 Deg. F. Do not attempt to handle, store or use Chlorine without complete review of the Chlorine Institute's Chlorine Manual (Call: 202-775-2790). Chlorine piping and equipment must be thoroughly cleaned of organics and moisture before use. Liquid Chlorine lines must have suitable expansion chambers between block valves due to the high coefficient of expansion. Always handle Chlorine with full regard to its pressure characteristics. KEEP AWAY FROM HEAT AND MOISTURE. NEVER place a leaking container in water nor spray a leaking container with water. Correct leaks immediately. Protect container from weather and physical damage. Liquid levels should be less than 85% of tank or cylinder capacity. Water contamination should be avoided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines: Component Chlorine	Limits 1 ppm Ceiling; 3 mg/m3 Ceiling
ACGIH Exposure Guidelines: Component Chlorine	Limits 0.5 ppm TWA; 1 ppm STEL

Note:

* IDLH = 10 ppm. Odor threshold approximately 0.3 ppm - highly variable especially with individuals routinely exposed.

Engineering Controls: General room ventilation and local exhaust are required. Process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly. NOTE: Chlorine is heavier than air and tends to collect at ground or floor level. Provide ventilation for low-lying areas.

Eye/Face Protection: Wear chemical safety goggles and a full face shield while handling this product. Do not wear contact lenses.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Butyl rubber. Neoprene. Chemical-resistant.

Respiratory Protection: Respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If exposure limits are exceeded, wear: NIOSH approved full facepiece chlorine type respirator. NIOSH-Approved full-facepiece positive-pressure, air-supplied respirator. NIOSH-Approved self-contained breathing apparatus with full facepiece is required for vapor concentrations above 10 ppm and for leaks and/or emergencies. Wear respirator while operating valves and connecting and disconnecting lines. Personnel handling or near Chlorine should at all times carry a NIOSH/MSHA-approved, chemical cartridge type, escape respiratory and be trained in its use. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower. Rubber boots. Rubber apron. Protective clothing. Fully encapsulated suit for areas of high concentrations.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift.

9. PHYSICAL AND CHEMICAL PROPERTIES

Safety Data Sheet for Chlorine

CHLORINE Product ID: CL000000 Physical State: Liquid. Gas. Color: Amber. Greenish-yellow. Odor: Pungent irritating odor. Boiling Point (deg. F): ~ -29 Freezing Point (deg. F): ~ -150 Melting Point (deg. F): N.D. Vapor Pressure (mm Hg): 4788 @ 20 C Vapor Density (air=1): ~ 2.5 @ 0 C Solubility in Water: Slight pH: N.A. Specific Gravity: ~ 1.467 @ 0 C % Volatile (wt%): 100% Evaporation Rate (nBuAc = 1): N.D. VOC (wt%): 0 VOC (lbs/gal): 0 Viscosity: N.D. Flash Point: N.A. Flash Point Method: N.A. Lower Explosion Limit: N.A. Upper Explosion Limit: N.A. Autoignition Temperature: N.A. Fire Point: N.D.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Avoid temperatures above 125 Deg. F. Avoid all forms of contamination.

Incompatible Materials: Alkalies. Reducing agents. Organic materials. Ammonia. Metal hydrides. Carbides. Phosphides. Sulfides. Readily-oxidized materials. Acetylene. Turpentine. Combustible materials. Metallic powders. Sulfur, Aluminum, Elemental metals. Nitrides. Amines. Oxides. Unstable and reactive compounds. Dry chlorine is highly reactive with titanium and tin. Reacts with most metals at high temperatures. Reacts with water to produce hydrochloric and hydrochlorous acids, which are corrosive to most metals. Combines with carbon monoxide and sulfur dioxide forming phosgene and sulfuryl chloride. Moist chlorine is highly corrosive to most metals. Chlorine reaction to some organic compounds can be explosive.

Hazardous Decomposition Products: Chlorine gas is poisonous.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION					
Component No components found or no data available for product.	Oral LD50	Dermal LD50	Inhalation LC50		
Other Information					
Inhalation LC50: Rat: 0.86 mg	/L/1H; Rat: 293 ppm/1H	(Chlorine)			
	/L/1H; Rat: 293 ppm/1H		this subject to be supplied in the supplied		

Acute toxicity: This material is corrosive to the skin, eyes, and respiratory tract. Breathing this material is harmful and can cause death. Harmful effects include burns and permanent damage to airways, including nose, throat, and lungs. The extent of injury following chlorine exposure depends on concentration and duration of exposure as well as water content of the tissue involved. Estimated effects are as follows: 0.2-0.4 ppm: Odor detection (some tolerance develops); 1-3 ppm: Mild mucous membrane irritation (can be tolerated ~ 1 hour); 5-15 ppm: Moderate irritation of upper respiratory tract; 30 ppm: Immediate chest pain, vomiting, dyspnea, cough; 40-60 ppm: Toxic pneumonitis and pulmonary edema; 430 ppm: Lethal over 30 minutes; 1000 ppm: Fatal within a few minutes.

Its action in the respiratory tract is due to its strong oxidizing capability; it forms both hypochlorous acid and

Safety Data Sheet for Chlorine

CHLORINE

Product ID: CL000000

hypochloric acid on contact with moist mucous membranes. Symptoms of pulmonary congestion and edema may develop after a latency period of several hours following severe acute exposure of chlorine.

Chronic toxicity: Long term overexposure may produce upper airway changes leading to an increased prevalence of colds, shortness of breath, and reactive airway dysfunction syndrome.

Additional data: Odor does not provide an adequate warning of exposure. In workers exposed to chlorine for a 2 to 5 year period, all had some degree of olfactory impairment. Sensory initiation tolerance developed in rats when they were pretreated with 1 ppm chlorine.

Mutagenic data: This material has tested positive in one or more in vitro mutagenicity studies.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: Highly toxic to fish and aquatic organisms. LC50 Fathead minnow: 0.07 to 0.15 (96 hour) LC50 Bluegill: 0.44 mg/l (96 hour) LC50 Daphnia: 30 to 150 ug/L (48 hour)

Chemical Fate Information: Chlorine is a strong oxidizer and will react rapidly with oxidizable inorganic compounds. Chlorine will also oxidize organic compounds, but at a slower rate than inorganic compounds. The presence of light accelerates the dissipation of chlorine in water.

Biodegration: This material is an element and not subject to biodegradation.

Persistence: The atmospheric half-life and lifetime of this material due to photolysis is estimated at 10 and 14 minutes, respectively. The half-life of free residual material in fresh water has been estimated at 1.3 to 5 hours. Bioconcentration: This material is not expected to bioconcentrate in organisms.

Additional Ecological Information: This material has exhibited toxicity to terrestrial organisms.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D003; D001

Disposal Method: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. Absorb in alkaline solution such as Caustic Soda, Soda Ash or Hydrated Lime. Care must be taken during neutralization process due to high heat generation. Place neutralized material in a closed container. For guidance in disposal of material, contact your regional office of the Environmental Protection Agency (EPA). Do not Discard to water or sewer. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

14. TRANSPORTATION INFORMATION

DOT (Department of Transportation):

Identification Number: Proper Shipping Name: Hazard Class: Backing Crown:	UN1017 Chlorine 2.3 (5.1, 8)
Packing Group:	N.A.
Additional Description:	Poison-Inhalation Hazard, Hazard Zone B.
Marine Pollutant:	Chlorine.
Label Required:	POISON GAS; OXIDIZER; CORROSIVE
Reportable Quantity (RQ):	10# (Chlorine).

15. REGULATORY INFORMATION

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category Hazards:

Immediate (Acute)	Delayed (Chronic)	Fire Hazard	Pressure Release	Reactive
Yes	No	Yes	Yes	Yes

Safety Data Sheet for Chlorine

CHLORINE Product ID: CL000000 CERCLA SARA SARA U.S. WI Prop **Regulated Components:** CAS HAP HAP Component Number RQ EHS <u>313</u> <u>65</u> 7782-50-5 Yes No Yes Yes Yes Yes Chlorine

*Prop 65 - May Contain the Following Trace Components

This product may contain detectable levels of (a) chemical(s) subject to California's Proposition 65.

NSF/ANSI Standard 60 Maximum Use Level: 30 mg/L.

16. ADDITIONAL INFORMATION

Hazard Rating System Health: 3

Flammability: 0 Reactivity: 0 * = Chronic Health Hazard

NFPA Rating System Health: 4 Flammability: 0

Reactivity: 0 Special Hazard: OX

MSDS Abbreviations N.A. = Not Applicable N.D. = Not Determined HAP = Hazardous Air Pollutant VOC = Volatile Organic Compound C = Ceiling Limit N.E./Not Estab. = Not Established

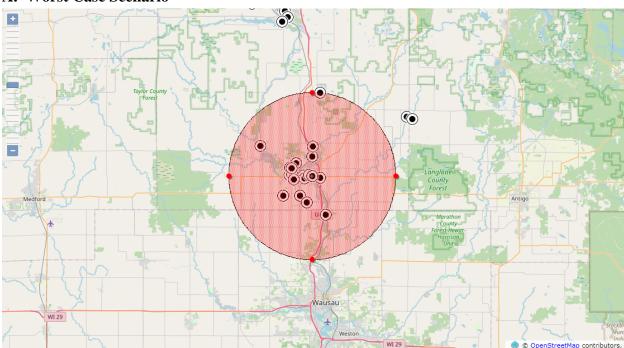
MSDS Prepared by: NAO

Reason for Revision: New format. Changes made throughout the MSDS.

The data in this Material Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

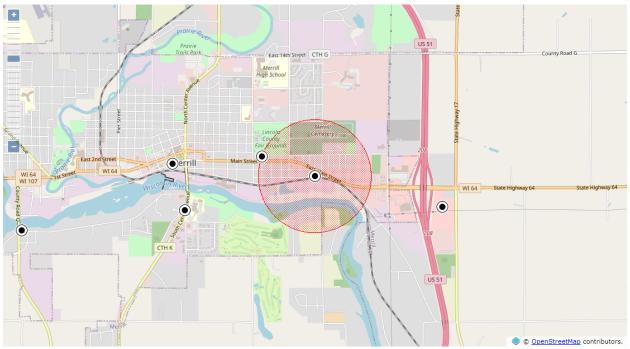
Attachment E

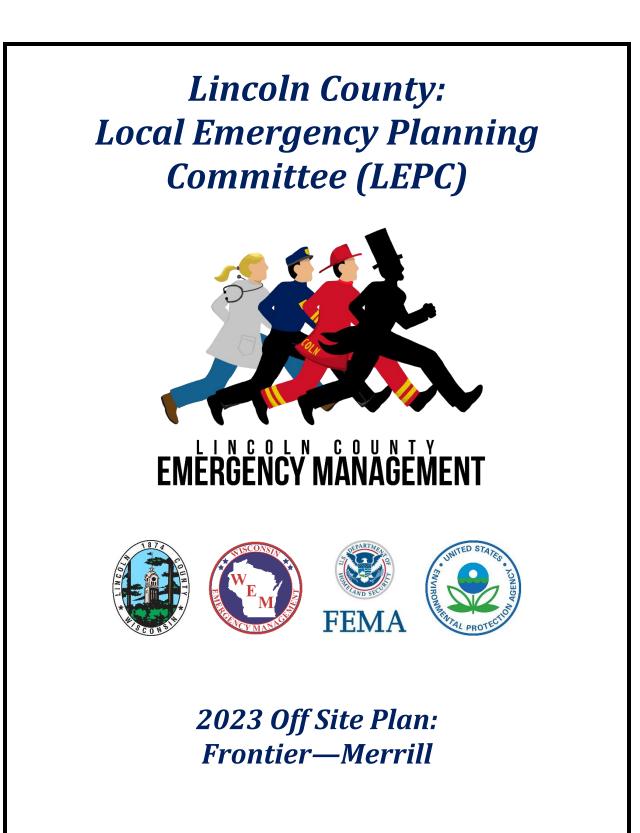
Vulnerability Zone Maps for Chlorine



A. Worst Case Scenario

B. Re-evaluation Scenario





Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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I. Facility Information

A. Frontier—Merrill

- 1. Address: 1000 East Main Street, Merrill, WI 54452
- 2. Phone: (945) 261-5087
- 3. Facility ID # (Assigned by WEM): 34879

II.Facility Emergency Contacts

A. Tier II Contact:

- 1. Name: Randy Robertson
- 2. Position: EH&S Manager, Frontier
- 3. Office Phone: (945) 261-5087
- 4. Emergency Phone: (800) 590-6605
- 5. Email: randy.robertson@ftr.com

B. Tier II Emergency Coordinator:

- 1. Name: Jeffrey Witt
- 2. Position: Facility Supervisor
- 3. Emergency Phone: (608) 837-1129
- 4. Emergency Phone: (800) 590-6605
- 5. Email: Jeffrey.witt@ftr.com

III. Extremely Hazardous Substances (EHS)

A. EHS Chemicals OVER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
7664-93-9	Sulfuric Acid	24,078	1,526	< 0.1 miles

IV. Primary Emergency Responders

A. Lincoln County Sheriff's Office

1. Phone: 911 or (715) 563-6272

B. Lincoln County Emergency Communications Center

1. Phone: 911 or (715) 563-6272

C. Lincoln County Emergency Management

1. Phone: (715) 218-0128

D. Merrill Fire Department

1. Phone: 911 or (715) 536-2233

E. Merrill Police Department

1. Phone: 911 or (715) 536-8311

V. Support Available at Facility

A. Chemical Emergency Monitoring Equipment:

1. None

B. Personal Protective Equipment:

1. None

C. Other Equipment or Supplies:

1. None

D. Outside Resources Available:

- 1. Lincoln County Emergency Management
 - a) Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

- 2. Chemtrec: (800) 424-9300
 - a) Unknown response time
- 3. National Response Center: (800) 424-8802
 - a) Unknown response time
- 4. REI—Spill & Response Recovery: (800) 734-7745
 - a) Unknown response time

VI. General information and Assumptions (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA) Technical Guidance for Hazard Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of an EHS occur.

A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the hazard analysis summary.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO*fm* cannot compute zones greater than 10 miles nor less than 0.1 miles. Thus, results that fall into these situations will be notes as "> 10 miles" or "< 0.1 miles".

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

VII. Hazard Analysis Summary

Frontier (Merrill) provides a communication service to the public. The facility has one (1) employee who works on-site in a part-time capacity. Extremely hazardous substances are present on-site every day of the year. This facility does not remove products on a seasonal basis.

A. Greatest Potential for Release

1. Sulfuric acid (contained within forty-eight [48] batteries) are located within the basement of the facility. The floor where the EHS is located has no drains. Therefore, the potential for a spill would be contained to an impervious surface.

B. Vulnerability Zones (by chemical)

Sulfuric Acid (Lead Battery Acid): CAS #7664-93-9						
Amount Released:	1,526	1,526 lbs.				
Concentration:	100%)				
Physical State:	Liqui	d (Ambient)				
Diked Area:	No					
Level of Concern (LOC):	0.008	3 gm/m ³				
LOC Type:	Greenbook LOC					
Worst Case Scenario			Re-Evaluation Scenario			
Duration:	10	0 minutes	Duration	10 minutes		
Wind Speed:	3.	.4 mph	Wind Speed:	11.9 mph		
Ground Roughness:	R	ural	Ground Roughness:	Urban		
Atmospheric Stability Clas	s: F		Atmospheric Stability Class:	D		
Risk:	Lo	OW	Risk:	Low		
Consequences:		OW	Consequences:	Low		
Overall Risk:	Lo	OW	Overall Risk:	Low		
Threat Zone Radius:	<	0.1 miles	Threat Zone Radius:	< 0.1 miles		

C. Estimation of Population Affected

- 1. Sulfuric Acid
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would potentially be one (1) employee and no other persons or special facilities.
 - b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance would potentially be one (1) employee and no other persons or special facilities.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

D. Critical Infrastructure

1. None

E. Hospital

1. None

F. Nursing Homes/Assisted Living Facilities

1. None

G. Schools

1. None

H. Child Care/Day Care

1. None

VIII. Population Protection

The determination to shelter in-place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter-in-place. Preferred areas for protective sheltering would be interior hallways, rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.

IX. Special Considerations

A. None

X. Distribution List

- Frontier—Merrill
- Merrill Fire Department
- Wisconsin Emergency Management Northeast Regional Office
- Oneida County Sheriff Office Hazardous Materials Response Team
- Wausau Wisconsin Hazardous Response Team
- Marathon County Emergency Management

XI. Supporting Documentation

A. Attachments

- 1. Attachment A, Record of Change and Review
- 2. Attachment B, Facility Layout and Site Information
- 3. Attachment C, Transportation Route Map
- 4. Attachment D, Safety Data Sheet for Sulfuric Acid
- 5. Attachment F, Vulnerability Zone Map for Sulfuric Acid

Attachment A

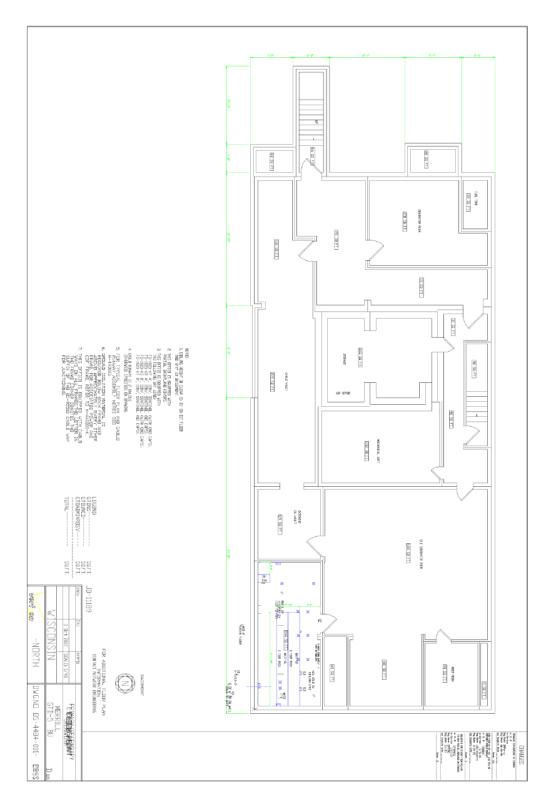
Record of Change/ Review /Signature

Date	Contributor	Description of Change	Page Number(s)
12-5-2023	T. Verhasselt and R. Robertson	Authored plan and reviewed with Frontier (Merrill) for accuracy.	Pgs. 1 -22

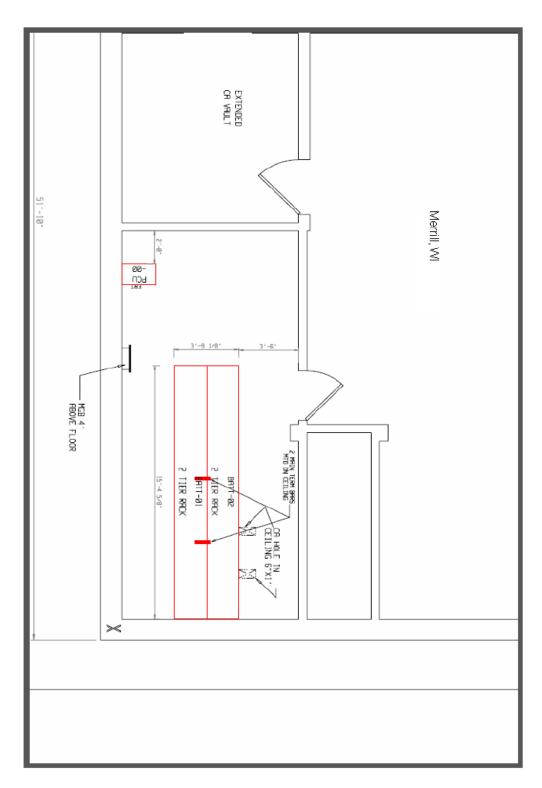
Please see EPCRA Hazardous Materials Off-Site Plan Transmittal Form for approval and signatures.

Attachment B



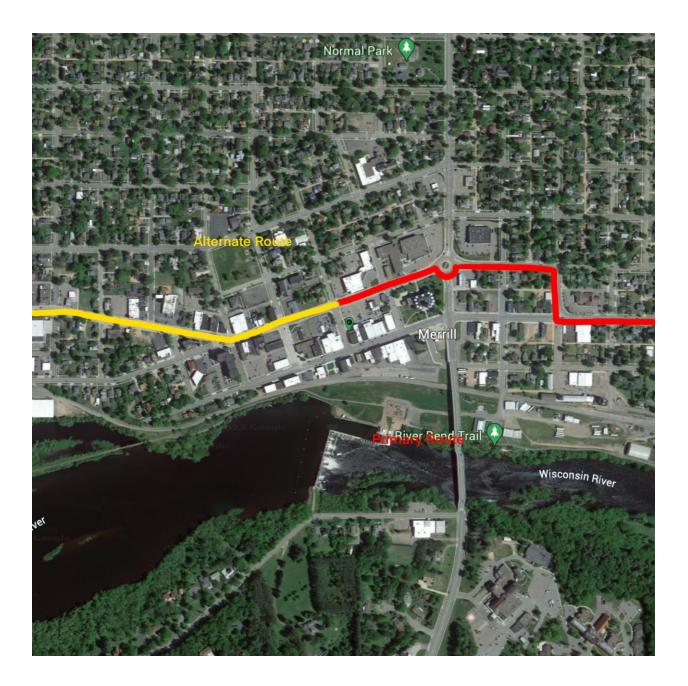


Facility Layout and Site Information



Attachment C

Transportation Route Map



Attachment D

EnerSys:	SAFETY DATA S	SAFETY DATA SHEET		Form #: SDS 853020 Revised: AB Supersedes: AA		
Power/Full Solutions				ECO #: 1001828		
I. PRODUCT IDENTIFICATION						
Chemical Trade Name (as used on label):		Chemical Family/Cl				
Lead-Acid Battery, Wet		Electric Storage Batte	ary			
Synonyms: Industrial Dations: Tractice Dations: Stationers: Dati		Telephone				
Industrial Battery, Traction Battery, Stationary Batt Deep Cycle Battery	ny,	Telephone: For information and e	mergencies, contact En	orSus'		
Manufacturer's Name/Address:			h & Safety Dept. at 610			
EnerSys		, , , , , , , , , , , , , , , , , , , ,				
P.O. Box 14145		24-Hour Emergency	Response Contact:			
2366 Bernville Road		CHEMTREC DOME	STIC: 800-424-9300	CHEMTREC INTL: 703-527-3877		
Reading, PA 19612-4145						
II GHS HAZARDS IDENTFICATION						
HEALTH		ENVIRONMENTAL		PHYSICAL		
Acute Toxicity		Aquatic Chronic 1		Explosive Chemical, Division 1.3		
(Oral/Dermal/Inhalation) Categor		Aquatic Acute 1				
Skin Corrosion/Irritation Categor						
Eye Damage Categor Reproductive Categor	-					
Carcinogenicity (lead compounds) Category						
Carcinogenicity (arsenic) Category						
Carcinogenicity (acid mist) Category						
Specific Target Organ Catego						
Toxicity (repeated exposure)						
GHS LABEL:						
HEALTH		ENVIRONMENTAL		PHYSICAL		
Hazard Statements DANGER! Causes severe skin burns and serious eye damage. May damage fertility or the unborn child if ingested inhaled.	or Wear protective glo Avoid breathing du	fter handling. r smoke when using this p wes/protective clothing, o st/fume/gas/mist/vapors/	eye protection/face prot spray.	ection.		
May cause cancer if ingested or inhaled.		Use only outdoors or in a well-ventilated area. Contact with interval components may cause irritation or covers hums. Avoid contact with interval soid				
Causes damage to central nervous system, blood and		Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid.				
kidneys through prolonged or repeated exposure.		espiratory system, and ski	n.			
May form explosive air/gas mixture during charging		ructions before use.				
Extremely flammable gas (hydrogen).		all safety precautions ha		stood		
Explosive, fire, blast, or projection hazard.		ng pregnancy/while nursi	-			
May cause harm to breast-fed children		at./sparks/open flames/ho	ot surfaces. No smoking	Į.		
Harmful if swallowed, inhaled, or contact with skin						
Causes skin irritation, serious eye damage.						
III. COMPOSITION/INFORMATION ON ING	REDIENTS		1			
Commente	CAS No.	American M. Lu				
Components	CAS Number	Approximate % by Wt.				
Inorganic Lead Compound:			1			
Lead	7439-92-1	60-70				
 Antimony 	7440-36-0	2				
* Arsenic	7440-38-2	0.2				
* Calcium	7440-70-2	0.04				
* Tin	7440-31-5	0.2				
Electrolyte (Sulfuric Acid (H2SO4/H2O))	7664-93-9	10-30	4			
Case Material:		5-10				
Polypropylene	9003-07-0					
Polystyrene	9003-53-6					
Styrene Acrylonitrile	9003-54-7					
Acrylonitrile Butadiene Styrene Styrene Butadiene	9003-56-9 9003-55-8					
Polyvinylchloride	9003-33-8					
Polycarbonate, Hard Rubber, Polyethy						

E	rSys . sa				Form #: SDS 853020
Ene	ISVS. SA	FETY DATA SH	EET		Revised: AB
					Supersedes: AA
	Powers/Full Bolutions				ECO #: 1001828
Other:	Silicon Disside (Cal batteries enhà	7631-86-9	1-5		
	Silicon Dioxide (Gel batteries only)	/031-80-9	1-5		
	Sheet Molding Compound (Glass reinforced polyester)				
└──	(chass remoteed polyester) Inorganic lead and electrolyte (sulfuric acid) are the p	rimary components of a	very battery manufacty	and by EnerSys	
	Other ingredients may be present dependent upon bat				
IV. FIRST	AID MEASURES				
Inhalation	<u>.</u>				
	Sulfuric Acid: Remove to fresh air immediately. If b	-	e oxygen. Consult a ph	ysician.	
	Lead: Remove from exposure, gargle, wash nose and	lips; consult physician.			
Ingestion:					
	Sulfuric Acid: Give large quantities of water; do not	induce vomiting or aspir	ration into the lungs m	ay occur and can cause permanent injury or	death;
	consult a physician. Lead: Consult physician immediately.				
Skin:	Leau. Consult physician inineurately.				
OKIII:	Sulfuric Acid: Flush with large amounts of water for	at least 15 minutes; rem	ove contaminated clot	hing completely, including shoes.	
	If symptoms persist, seek medical attention. Wash con				
	Lead: Wash immediately with soap and water.	2			
Eyes:					
	Sulfuric Acid and Lead: Flush immediately with large		least 15 minutes while	e lifting lids.	
	Seek immediate medical attention if eyes have been e	xposed directly to acid.			
	FIGHTING MEASURES				
Flash Poin			LEL = 4.1% (Hydroger		-
	ing Media: CO2; foam; dry chemical. Do not use carb	on dioxide directly on c	clis. Avoid breatning v	apors. Use appropriate media for surroundin	g nre.
Special Fil	re Fighting Procedures: If batteries are on charge, shut off power. Use positiv	or pressure self-contain	ed breathing apparatus	Water applied to electrolyte generates	
	heat and causes it to spatter. Wear acid-resistant clot	• •		. Water applied to electrolyte generates	
	But note that strings of series connected batteries may			arging equipment is shut down.	
Unusual F	ire and Explosion Hazards:				
	Highly flammable hydrogen gas is generated during c	harging and operation o	f batteries. To avoid ri	isk of fire or explosion, keep sparks or other	
	sources of ignition away from batteries. Do not allow	metallic materials to si	multaneously contact n	egative and positive terminals of cells and	
	batteries. Follow manufacturer's instructions for insta	llation and service.			
	DENTAL RELEASE MEASURES				
Spill or Le	ak Procedures:		in the Design		
	Stop flow of material, contain/absorb small spills with				
	neutralize spilled electrolyte with soda ash, sodium bi allow discharge of unneutralized acid to sewer. Acid 1				
	Consult state environmental agency and/or federal EP	-	ordance with local, sta	e, and redenii requirements.	
VIL HAN	DLING AND STORAGE				
Handling:					
Unless invo	olved in recycling operations, do not breach the casing o	r empty the contents of	the battery. Handle car	efully and avoid tipping,	
which may	allow electrolyte leakage. There may be increasing risk	of electric shock from s	trings of connected bat	teries.	
Keep conta	iners tightly closed when not in use. If battery case is b	roken, avoid contact wit	th internal components	L	
	caps on and cover terminals to prevent short circuits. Pl				
Keep away	from combustible materials, organic chemicals, reducin	g substances, metals, st	rong oxidizers and wat	er. Use banding or stretch wrap to secure it	ems for
shipping.					
Storage:				C THE DAY IN A 14	
	ries in cool, dry, well-ventilated areas with impervious s				
	ed under roof for protection against adverse weather con	-	-	-	
	th adequate water supply and spill control. Avoid dama terminals on a battery and create a dangerous short-circu		away from fire, sparks	and near. Keep away from metallic objects o	ouid
Charging:	· · · · ·	#1-			
	ossible risk of electric shock from charging equipment	and from strings of serie	is connected batteries	whether or not being charged. Shut-off now	er to
	henever not in use and before detachment of any circuit				
	pace should be ventilated. Keep battery vent caps in pos				
	and eye protection when near batteries being charged.				
_					

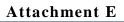
EnerSys.	SAFETY DATA SHEET					Form #: SDS 853020 Revised: AB Supersedes: AA ECO #: 1001828	
/III. EXPOSURE CONTROLS/I /xposure Limits (mg/m3) Note: N	PERSONAL PROTECTION						
Apactive Linity (ingrita) Note: N	F.= Not Established				1		
NGREDIENTS	OSHA PEL	ACGIH	US NIOSH	Ouebec PEV	Ontario OEL	EU OEL	
Chemical/Common Names)							
ead and Lead Compounds							
norganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)	
ntimony	0.5	0.5	0.5	0.5	0.5	0.5 (b,e)	
rsenic	0.01	0.01	0.002	0.2	0.01	N.E	
alcium	N.E	N.E	N.E	N.E	N.E	N.E	
in	2	2	2	2	2	N.E	
lectrolyte (Sulfuric Acid)	1 N.E	0.2 N.E	1 N.E	1 N.E	0.2 N.E	0.05 (c)	
olypropylene						N.E	
olystyrene tyrene Acrylonitrile	N.E N.E	N.E N.E	N.E N.E	N.E N.E	N.E N.E	N.E N.E	
crylonitrile Butadiene	N.E	N.E.	N.E.	PLE	18.E	N.E	
tyrene	N.E	N.E	N.E	N.E	N.E	N.E	
tyrene Butadiene	N.E	N.E	N.E	N.E	N.E	N.E	
olyvinylchloride	N.E	N.E	N.E	N.E	1	N.E	
olycarbonate, Hard							
ubber, Polyethylene	N.E.	N.E	N.E	N.E	N.E	N.E	
ilicon Dioxide							
Gel Batteries Only)	N.E	N.E	N.E	N.E	N.E	N.E	
Jlass reinforced polyester) OTES: 0 As inhalable nerosol 1 Thoracic fraction 1 Based on OEL;s Of Austria, Belg ngincering Controls (Ventilation Store and handle in we	1): ell-ventilated area. If mechanica			N.E	NE	N.E	
Handle batteries cautio clothing, eye and face p positive and negative to	protection when filling, chargin terminals of the batteries. Charg	g or handling batterie	ecurely. Avoid contact v s. Do not allow metallic	with internal component materials to simultane	ously contact both the		
Handle batteries cautio clothing, eye and face p positive and negative to cspiratory Protection (NIOSH/M	protection when filling, charging terminals of the batteries. Charge MSHA approved):	g or handling batterie e the batteries in area	ecurely. Avoid contact v s. Do not allow metallic s with adequate ventilation	with internal component materials to simultanes on. General dilution ve	ously contact both the entilation is acceptable		
Handle batteries cautio clothing, eye and face p positive and negative to copiratory Protection (NIOSH/M	protection when filling, chargin terminals of the batteries. Charg	g or handling batterie e the batteries in area	ecurely. Avoid contact v s. Do not allow metallic s with adequate ventilation	with internal component materials to simultanes on. General dilution ve	ously contact both the entilation is acceptable		
Handle batteries cautio clothing, eye and face p positive and negative tr espiratory Protection (NIOSH/M None required under n respiratory protection.	protection when filling, charging terminals of the batteries. Charge MSHA approved):	g or handling batterie e the batteries in area	ecurely. Avoid contact v s. Do not allow metallic s with adequate ventilation	with internal componer materials to simultane on. General dilution ve	ously contact both the entilation is acceptable		
Handle batteries cautio clothing, eye and face p positive and negative tr cspiratory Protection (NOSH/M None required under no respiratory protection. kin Protection: If battery case is damag	protection when filling, charging terminals of the batteries. Charge MSHA approved):	g or handling batterie e the batteries in area ntrations of sulfuric a	ecurely. Avoid contact w s. Do not allow metallic s with adequate ventilati cid mist are known to ex-	with internal componer materials to simultane on. General dilution vo ceed the PEL, use NIO	ously contact both the entilation is acceptable SH or MSHA-approve		
Handle batteries cautio clothing, eye and face p positive and negative t respiratory Protection (NOSH/M None required under nu- respiratory protection. kin Protection: If battery case is damag ye Protection:	protection when filling, chargin, terminals of the batteries. Charg <u>MSHA approved</u>): formal conditions. When concer- ged, use rubber or plastic acid-r	g or handling batterie e the batteries in area atrations of sulfuric a esistant gloves with e	ecurely. Avoid contact w s. Do not allow metallic s with adequate ventilati cid mist are known to ex-	with internal componer materials to simultane on. General dilution vo ceed the PEL, use NIO	ously contact both the entilation is acceptable SH or MSHA-approve		
Handle batteries cautio clothing, eye and face positive and negative tr espiratory Protection (NIOSH/M None required under n respiratory protection. kin Protection: If battery case is damag ye Protection: If battery case is damag	protection when filling, chargin terminals of the batteries. Charge MSHA approved): tormal conditions. When concer-	g or handling batterie e the batteries in area atrations of sulfuric a esistant gloves with e	ecurely. Avoid contact w s. Do not allow metallic s with adequate ventilati cid mist are known to ex-	with internal componer materials to simultane on. General dilution vo ceed the PEL, use NIO	ously contact both the entilation is acceptable SH or MSHA-approve		
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Handle batteries cautio clothing, eye and face p positive and negative to cepiratory Protection (NIOSH/M None required under n respiratory protection. Kin Protection: If battery case is damag ve Protection: If battery case is damag ther Protection: In areas where sulfuric with unlimited water si Face shield recommens X. PHYSICAL AND CHEMICAL reperties Listed Below are for EI Boiling Point: Melting Point:	protection when filling, chargin, terminals of the batteries. Charg <u>MSHA approved</u>): ormal conditions. When concer- ged, use rubber or plastic acid-r ged, use chemical goggles or fac- e acid is handled in concentration upply. Acid-resistant apron. Un ded when adding water or electr L PROPERTIES lectrolyte:	g or handling batterie e the batteries in area attrations of sulfuric a esistant gloves with e esistant gloves with e te shield. ns greater than 1%, et older severe exposure olyte to batteries, was 203 - 240° F N/A	ecurely. Avoid contact v s. Do not allow metallic s with adequate ventilati cid mist are known to ex- libow-length gauntlet, aci mergency eyewash statio emergency conditions, w sh hands after handling. Specific Gravity (H2 Vapor Pressure (mm Vapor Density (AIR	with internal componer materials to simultane on. General dilution vo ceed the PEL, use NIO id-resistant apron, clot ens and showers should ear acid-resistant cloth O = 1): . Hg): = 1):	susly contact both the initilation is acceptable SH or MSHA-approve hing and boots. I be provided, ing and boots.		
Handle batteries cautio clothing, eye and face p positive and negative tr espiratory Protection (NIOSH/M None required under no respiratory protection. If battery case is damag ve Protection: If battery case is damag ther Protection: In areas where sulfuric with unlimited water sulfuric with unlimited reatorn sis Face shield recomment C.PHVSICAL AND CHEMICAI roperties Listed Below are for El Boiling Point: Solubility in Water;	protection when filling, chargin, terminals of the batteries. Charge <u>MSHA approved</u>): formal conditions. When concer- ged, use rubber or plastic acid-r aged, use rubber or plastic acid-r aged, use chemical goggles or fac : acid is handled in concentratio upply. Acid-resistant apron. Un ded when adding water or electr L PROPERTIES lectrolyte: Butyl Acetate = 1)	g or handling batterie e the batteries in area attrations of sulfuric a esistant gloves with e ce shield. ns greater than 1%, et der severe exposure o olyte to batteries, was 203 - 240° F N/A 100% Less than 1	ecurely. Avoid contact v s. Do not allow metallic s with adequate ventilati cid mist are known to ex- libow-length gauntlet, aci mergency cyewash statio emergency conditions, w sh hands after handling. Specific Gravity (H2 Vapor Pensure (mm Vapor Density (AIR % Volatile by Weigh	with internal componer materials to simultane on. General dilution vo ceed the PEL, use NIO id-resistant apron, clot ens and showers should ear acid-resistant cloth O = 1): . Hg): = 1):	sually contact both the initilation is acceptable SH or MSHA-approve hing and boots. I be provided, ing and boots. 1.215 to 1.350 10 Greater than 1 N/A	sd	
Handle batteries cautio clothing, eye and face p positive and negative tr cspiratory Protection (NOSH/M None required under no respiratory protection. If battery case is damag ye Protection: If battery case is damag ther Protection: In areas where sulfuric with unlimited weater sis Face shield recommend case shield recommend X. PHVSICAL AND CHEMICAI roperties Listed Below are for El Boiling Point: Netting Point: Solubility in Water;	protection when filling, chargin, terminals of the batteries. Charge <u>MSHA approved</u>): (SILA approved): (appled): (SILA approved): (appled): (SILA approved): (appled): (SILA appled): (SILA appled): (appled): (SILA appled): (SILA appled): (appled): (SILA appled): (SILA appled): (SILA appled): (SILA appled): (SILA appled): (SILA appled)	g or handling batterie e the batteries in area atrations of sulfurie a esistant gloves with e esistant gloves with e eshield. ns greater than 1%, et der severe exposure (volyte to batteries, war 203 - 240° F N/A 100%	ecurely. Avoid contact v s. Do not allow metallic s with adequate ventilati cid mist are known to ex- libow-length gauntlet, aci mergency eyewash statio emergency conditions, w sh hands after handling. Specific Gravity (H2 Vapor Pressure (mm Vapor Density (AIR	with internal componer materials to simultane on. General dilution vo ceed the PEL, use NIO id-resistant apron, clot ens and showers should ear acid-resistant cloth O = 1): Hgp: = 1): tt:	sually contact both the initilation is acceptable SH or MSHA-approve hing and boots. I be provided, ing and boots. 1.215 to 1.350 10 Greater than 1 N/A		

Ene	SAFETY DATA SHEET	Form #: SDS 853020 Revised: AB Supersedes: AA ECO #: 1001828
X. STABI	LITY AND REACTIVITY	ECO #: 1001828
Stability:		
This produ	ict is stable under normal conditions at ambient temperature.	
Conditions	s To Avoid: Prolonged overcharge; sources of ignition	
Incompati	bility: (Materials to avoid)	
	Sulfuric Acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents	,
	metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable	
	hydrogen gas. Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen	
	and reducing agents. Arsenic compounds: strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsine.	
United	Arsenic compounds, strong oxidizers, oronnine azide. NOTE: nydrogen gas can react with morganic arsenic to form the mgnity toxic gas-arsine.	
Hazardous	EDECOMPOSITION PRODUCTS: Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.	
	Lead Compounds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent	
	hydrogen may generate highly toxic arsine gas.	
Hazardow	Polymerization:	
	Will not occur	
XI. TOXI	COLOGICAL INFORMATION	
Routes of 1		
	Sulfaric Acid: Harmful by all routes of entry.	
	Lead Compounds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapo	r
	or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.	
Inhalation		
	Sulfuric Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.	
	Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.	
Ingestion:	Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.	
	Summer Veter, share severe initiation of mount, unoat, esophiagus and somach. Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to system	i.
	toxicity and must be treated by a physician.	iic.
Skin Conta		
Contra Contra	Sulfuric Acid: Severe irritation, burns and ulceration.	
	Lead Compounds: Not absorbed through the skin.	
	Arsenic Compounds: Contact may cause dermatitis and skin hyper pigmentation.	
Eye Conta	ct:	
	Sulfuric Acid: Severe irritation , burns, cornea damage, and blindness.	
	Lead Components: May cause eye irritation.	
Effects of	Overexposure - Acute:	
	Sulfuric Acid: Severe skin irritation, damage to cornea, upper respiratory irritation.	
	Lead Compounds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep	
	disturbances and irritability.	
Effects of	Overexposure - Chronic:	
	Sulfuric Acid: Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.	
	Lead Compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and	
	females. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abnor	
	conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system da	mage,
0	encephalopathy and damage to the blood-forming (hematopoietic) tissues.	
Carcinoge	nerry: Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as a	
	Summer verse. The international Agency for research of Cancel (Arec) has classification does not apply to liquid forms of sulfaric acid or sulfuric	
	acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of th	10 C
	actu solutions contained winnin a oanery. Inorganic actu mist (summe actu mist) is not generated under normal use of this product. Mistise of u product, such as overcharging, may result in the generation of sulfuric acid mist.	n.
	<u>Induct</u> , such as overchanging, may result in the generation of suitable acid mast. <u>Lead Compounds</u> : Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 1910.	1200
	Appendix F, this is approximately equivalent to GHS Category 1B. <u>Proof of carcinogenicity in humans is lacking at present</u> .	
	Appendix P, dus is approximately equivalent to Gris Category 18. <u>Proof or arcinogenetry in number is facking at present</u> . <u>Arsenic</u> : Arsenic is listed by IARC as a Group 1 - carcinogenic to humans. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F, thi	s is
	<u>Atsente</u> : Atsente la fisiele by DKC as a Oroup 1 - carentogenie lo numaris. Per die guidance found in OSPA 25 CPR 1510.1200 Appendix P, un approximately equivalent to GHS Category 1A.	
Medical C		
Medical C	onditions Generally Aggravated by Exposure: Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravate	ie .

EnerSys. SAFETY DATA SHEET	Form #: SDS 853020 Revised: AB
Prover / Trid Statistions	Supersedes: AA
Acute Toxicity: Inhalation LD50:	ECO #: 1001828
Electrolyte: LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3 Elemental Lead: Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion) Elemental Arsenic: No data	
Oral LD50: Electrolyte: rat: 2140 mg/kg Elemental Lead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion) Elemental Arsenic: LD50 mouse: 145 mg/kg Elemental Antimony: LD50 rat: 100 mg/kg	
Additional Health Data:	
All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion. Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8. Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving t worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence on tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated area never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated children and their environment.	of food, as and
The 19th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction.	
Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.	
XII. ECOLOGICAL INFORMATION Environmental Fate:	
Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain. Most studies include lead compounds and not elemental lead.	; is slow.
Environmental Toxicity: Aquatic Toxicity: <u>Sulfuric acid:</u> 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L 96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L <u>Lead:</u> 48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion <u>Arsenic:</u> 24 hr LC50, freshwater fish (Carrassisus auratus) >5000 g/L.	
Additional Information: • No known effects on stratospheric ozone depletion. • Volatile organic compounds: 0% (by Volume)	
Water Endangering Class (WGK): NA	
XIII. DISPOSAL CONSIDERATIONS (UNITED STATES)	
Spent batteries: Send to secondary lead smelter for recycling. Spent lead-acid batteries are not regulated as hazardous waste when the requirements of 40 CEP Service 266 80 are not. This should be arranged in another with more und least state and federal annihilation. Consult state and intermental	
40 CFR Section 266.80 are met. This should be managed in accordance with approved local, state and federal requirements. Consult state environmental agency and/or federal EPA.	
Electrolyte: Place neutralized slurry into sealed containers and handle as applicable with state and federal regulations. Large water-diluted spills, after	
neutralization and testing, should be managed in accordance with approved local, state and federal requirements. Consult state environmental agency and/or federal EPA.	
Following local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user. XIV. TRANSPORT INFORMATION	
U.S. DOT: The transportation of wet and moist charged (moist active) batteries within the continental United States is regulated by the U.S. DOT through the Code of Federal Regulations, Title 49 (49CFR). These regulations classify these types of batteries as a hazardous material. Refer to 49 CFR, 173.159 for more details pertaining to the transportation of wet and moist batteries.	
The shipping information is as follows: Proper Shipping Name: Batteries, wet, filled with acid Packing Group: N/A Hazardous Class: 8 Label/Placard Required: Corrosive UN Identification: UN2794 Label/Placard Required: Corrosive	
Contact your EnerSys representative for additional information regarding the classification of batteries.	
 49 CFR 173.159(c) specifies that when transported by highway or rail, electric storage batteries containing electrolyte or corrosive battery fluid are not subjec any other requirements of this subchapter, if all of the following are met: No other hazardous materials may be transported in the same vehicle; The batteries must be loaded or braced so as to prevent damage and short circuits in transit; Any other material loaded in the same vehicle must be blocked, braced, or otherwise secured to prevent contact with or damage to the batterie 	
(4) The transport vehicle may not carry material shipped by any person other than the shipper of the batteries. If any of the above-referenced requirements are not met, the batteries must be shipped as fully-regulated Class 8 Corrosive hazardous materials.	

EnerSys.		FETY DATA SHEE	т	Form #: SDS 853020 Revised: AB Supersedes: AA ECO #: 1001828		
(IATA). T	tional transportation of wet and moist char		is regulated by the International Air Transport Ass aterial. The batteries must be packed according to			
The shippin	ng information is as follows: Proper Shipping Name: Batteries, Hazardous Class: 8 UN Identification: UN2794	wet, filled with acid	Packing Group: N/A Label/Placard Required: Corro	sive		
	ar EnerSys representative for additional inf	formation regarding the clas	sification of batteries.			
Goods code IMDG code	(IMDG). These regulations also classify pages 8120 and 8121. IMDG Code Pack in information is as follows: Proper Shipping Name: Batteries, v	these types of batteries as h ing Instruction P801.	is regulated by the International Maritime Dangers azardous material. The batteries must be packed a Packing Group: N/A Label/Diraced Pacavieth Course	ccording to		
	Hazardous Class: 8 UN Identification: UN2794		Label/Placard Required: Corro	sive		
Contact vo	ar EnerSys representative for additional inf	ormation regarding the clas	sification of batteries.			
V. REGULATORY E		contained regarding the case	onitalitori di duntarta.			
NITED STATES:						
PA SARA Title III:						
	remely Hazardous Substances (EHS):					
	-		Threshold Planning Quantity (TPQ) of 1,000 lbs.			
EPCRA Se	ction 302 notification is required if 1000 lb	s or more of sulfuric acid i	s present at one site (40 CFR 370.10). For more inf	ormation consult		
40 CFR Par	t 355. The quantity of sulfuric acid will va	ry by battery type. Contact	your EnerSys representative for additional information	tion.		
ection 304 CERCLA H	azardous Substances:					
	Quantity (RQ) for spilled 100% sulfuric ac	id under CERCLA (Superf	ind) and			
		to Know Act) is 1,000 lbs.	State and local reportable quantities for spilled sulf	uric acid may vary.		
ection 311/312 Hazard						
EPCRA Se	ction 312 Tier Two reporting is required fo	r non-automotive batteries	if sulfuric acid is present in quantities of 500 lbs or	more and/or if lead is		
present in c	uantities of 10,000 lbs or more. For more i	information consult 40 CFF	370.10 and 40 CFR 370.40			
ection 313 EPCRA Tox	tic Substances:					
		is many out in the outlinks of a	covered facility, a person is not required to conside	- the constitute of the		
	-		reshold has been met under § 372.25, § 372.27, or			
determining	g the amount of release to be reported unde	r § 372.30. This exemption	applies whether the person received the article fro	m another person		
or the perso	n produced the article. However, this exen	nption applies only to the q	uantity of the toxic chemical present in the article.			
upplier Notification:						
	e anne instantis de minde andrie anne ba	EDCD & C	entire 212 Terris Chemical Balance Inventory (Fra	D)		
			ection 313 Toxic Chemical Release Inventory (For			
If you are a	manufacturing facility under SIC codes 20	through 39, the following	information is provided to enable you to complete	the required reports:		
	Toxic Chemical	CAS Number	Approximate % by Wt.			
	Lead	7439-92-1	60			
	Electrolyte					
	(Sulfuric Acid (H2SO4/H2O))	7664-93-9	10 - 30			
	* Antimony	7440-36-0	2			
	* Arsenic	7440-38-2	0.2			
	Tin	7440-31-5	0.2			
See 40 CR	G Part 370 for more details.					
If you distri of each cale		a SIC Codes 20 through 39,	this information must be provided with the first sh	ipment		
The Section	The Section 313 supplier notification requirement does not apply to batteries, which are "consumer products".					
The Section						
	ent in all battery types. Contact your Eners		-			

Power/Pull Statistions	FETY DATA SHEET	Form #: SDS 853020 Revised: AB Supersedes: AA ECO #: 1001828
TSCA: TSCA Section 8b – Inventory Status: All chemicals o	omprising this product are either exempt or listed on the TSCA Inventory.	
TSCA Section 12b (40 CFR Part 707.60(b)) No notic context of individual section 5, 6, or 7 actions.	e of export will be required for articles, except PCB articles, unless the Agency so requires	in the
TSCA Section 13 (40 CFR Part 707.20): No import of Chemical Import Requirements of the Toxic Substance	certification required (EPA 305-B-99-001, June 1999, Introduction to the ces Control Act, Section IV.A).	
	handling requirements when managed in compliance with 40 CFR section 266.80 or 40 CI e; EPA hazardous waste number D002 (corrosivity) and D008 (lead).	R part 273.
chemicals (ODC's), defined by the USEPA as Class I	one depletion in the atmosphere due to emissions of CFC's and other ozone depleting substances. Pursuant to Section 611 of the Clean Air Act Amendments (CAAA) bished a policy to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.	
	ories contain lead and lead compounds, chemicals known to the State of California to cause other chemicals known to the State of California to cause cancer. Wash hands after handl	
INTERNATIONAL REGULATIONS: Distribution into Quebec to follow Canadian Controll Distribution into the EU to follow applicable Directiv		
XVI. OTHER INFORMATION		
Revision: AB (04-25-17) NFPA Hazard Rating for Sulfuric Acid: Flammability (Red) = 0 Health (Blue) = 3	Reactivity (Yellow) = 2 Sulfuric acid is water-reactive if concentrated.	
	mply with the requirements of 29 CFR 1910.1200. To the extent allowed by law any third party, including users of this product, including, but not limited to, cor Data Sheet.	



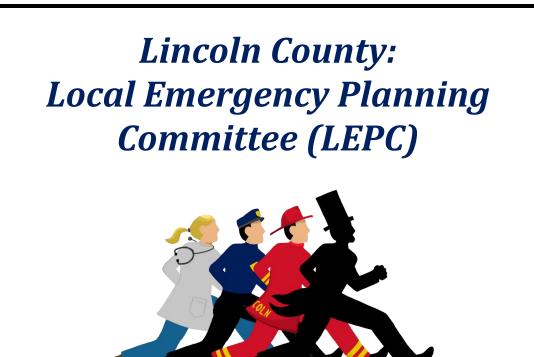
Vulnerability Zone Maps for Sulfuric Acid



A. Worst Case Scenario

B. Re-evaluation Scenario





EMERGENCY MANAGEMENT



2023 Off Site Plan: Frontier—Tomahawk

Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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I. Facility Information

A. Frontier (Tomahawk)

- 1. Address: 312 West Wisconsin Avenue, Tomahawk, WI 54487
- 2. Phone: (972) 424-1680
- 3. Facility ID # (Assigned by WEM): 5268

II.Facility Emergency Contacts

A. Tier II Contact:

- 1. Name: Randy Robertson
- 2. Position: EHS Manager, Frontier
- 3. Office Phone: (972) 424-1680
- 4. Emergency Phone: (972) 261-5087
- 5. Email: Randy.Robertson@ftr.com

B. Tier II Emergency Coordinator:

- 1. Name: Jeffery Witt
- 2. Position: Facility Supervisor
- 3. Emergency Phone: (608) 837-1129
- 4. Emergency Phone: (800) 590-6605
- 5. Email: Jeffrey.witt@ftr.com

III. Extremely Hazardous Substances (EHS)

A. EHS Chemicals OVER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
7664-93-9	Sulfuric Acid	1,554	1,554	< 0.1 miles

IV. Primary Emergency Responders

A. Lincoln County Sheriff's Office

1. Phone: 911 or (715) 563-6272

B. Lincoln County Emergency Communications Center

1. Phone: 911 or (715) 563-6272

C. Lincoln County Emergency Management

1. Phone: (715) 218-0128

D. Tomahawk Fire Department

1. Phone: 911 or (715) 453-8180

E. Tomahawk Police Department

1. Phone: 911 or (715) 453-2121

V. Support Available at Facility

A. Chemical Emergency Monitoring Equipment:

1. None

B. Personal Protective Equipment:

1. None

C. Other Equipment or Supplies:

1. None

D. Outside Resources Available:

- 1. Lincoln County Emergency Management
 - a) Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

- 2. Chemtrec: (800) 424-9300
 - a) Unknown response time
- 3. National Response Center: (800) 424-8802
 - a) Unknown response time
- 4. REI—Spill & Response Recovery: (800) 734-7745
 - a) Unknown response time

VI. General information and Assumptions (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA) Technical Guidance for Hazard Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of an EHS occur.

A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the hazard analysis summary.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO*fm* cannot compute zones greater than 10 miles nor less than 0.1 miles. Thus, results that fall into these situations will be notes as "> 10 miles" or "< 0.1 miles".

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

VII. Hazard Analysis Summary

Frontier (Tomahawk) provides a communication service to the public. The facility has one (1) employee who works on-site in a part-time capacity. Extremely hazardous substances are present on-site every day of the year. This facility does not remove products on a seasonal basis.

A. Greatest Potential for Release

- 1. The greatest potential for release would be an accident involving sulfuric acid, which is the only EHS on site, when being handled.
- 2. It is unlikely that a large sulfuric acid release would occur and it is unlikely that a release would have off site consequences. Spills would normally be contained inside the building except perhaps in a fire situation.

B. Vulnerability Zones (by chemical)

Sulfuric Acid: CAS #7664-93-9						
Amount Released:	1,5	544 lbs.				
Concentration:	10	0%				
Physical State:	Lie	quid (Ambient)				
Diked Area:	No)				
Level of Concern (LOC):	0.0	008 gm/m^3				
LOC Type:	Greenbook LOC					
Worst Case Scenario			Re-Evaluation Scenario			
Duration:		10 minutes	Duration	10 minutes		
Wind Speed:		3.4 mph	Wind Speed:	11.9 mph		
Ground Roughness:		Rural	Ground Roughness:	Urban		
Atmospheric Stability Class: F		F	Atmospheric Stability Class:	D		
Risk:		Low	Risk:	Low		
Consequences:		Low	Consequences:	Low		
Overall Risk:		Low	Overall Risk:	Low		
Threat Zone Radius:		< 0.1 miles	Threat Zone Radius:	< 0.1 miles		

C. Estimation of Population Affected

- 1. Sulfuric Acid
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would potentially be one (1) employee and no other persons or special facilities.
 - b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance would potentially be one (1) employee and no other persons or special facilities.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

D. Critical Infrastructure

1. None

E. Hospital

1. None

F. Nursing Homes/Assisted Living Facilities

1. None

G. Schools

1. None

H. Child Care/Day Care

1. None

VIII. Population Protection

The determination to shelter in-place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter-in-place. Preferred areas for protective sheltering would be interior hallways, rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.

IX. Special Considerations

A. None

X. Distribution List

- Frontier—Tomahawk
- Tomahawk Fire Department
- Wisconsin Emergency Management Northeast Regional Office
- Oneida County Sheriff Office Hazardous Materials Response Team
- Wausau Wisconsin Hazardous Response Team
- Oneida County Emergency Management

XI. Supporting Documentation

A. Attachments

- 1. Attachment A, Record of Change and Review
- 2. Attachment B, Facility Layout and Site Information
- 3. Attachment C, Transportation Route Map
- 4. Attachment D, Safety Data Sheet for Sulfuric Acid
- 5. Attachment F, Vulnerability Zone Map for Sulfuric Acid

Attachment A

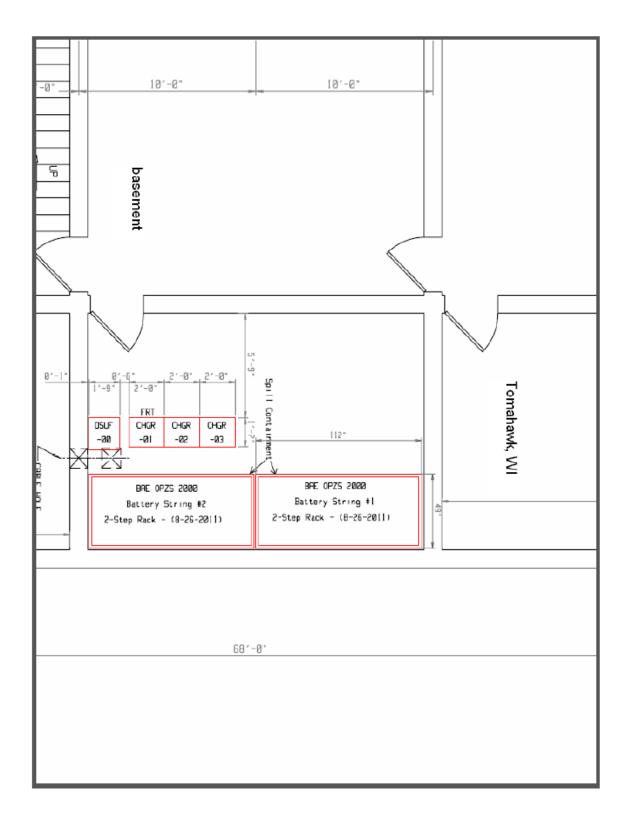
Record of Change/ Review /Signature

Date	Contributor	Description of Change	Page Number(s)
12-5-2023	T. Verhasselt, R. Robertson, and J. Witt	Authored plan and reviewed with Frontier (Tomahawk) for accuracy. Tier II contact was changed to R. Robertson.	Pgs. 1-21

Please see EPCRA Hazardous Materials Off-Site Plan Transmittal Form for approval and signatures.

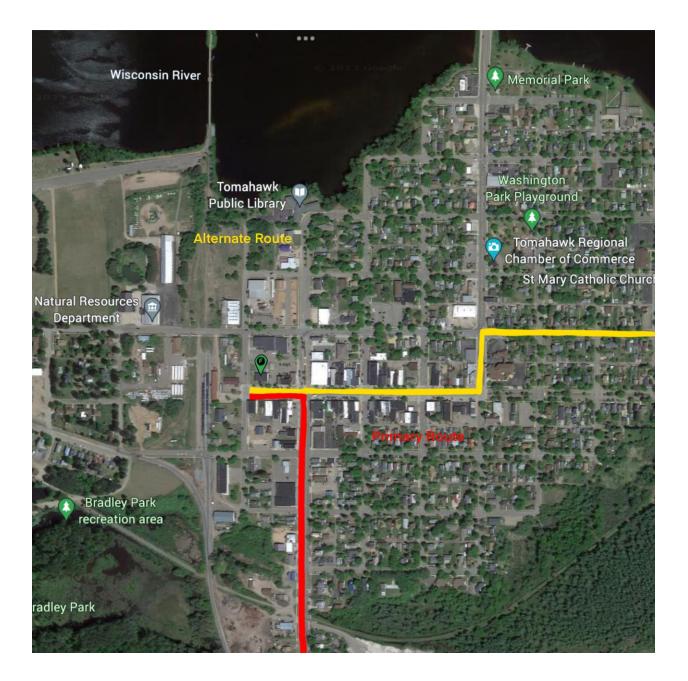
Attachment B





Attachment C

Transportation Route Map



Attachment D

EnerSys.	SA	FETY DATA SH	EET			Form #: SDS 853020 Revised: AB Supersedes: AA
Power/Full Solutions						ECO #: 1001828
Chemical Trade Name (as used on labo	eD:		Chemical Family/Cl	assification:		
Lead-Acid Battery, Wet			Electric Storage Batte			
Synonyms:						
Industrial Battery, Traction Battery, Stati	onary Battery,		Telephone:			
Deep Cycle Battery				mergencies, contact En		
Manufacturer's Name/Address:			Environmental, Health	h & Safety Dept. at 610	0-208-1996	
EnerSys			ALL F	P. C. t. t.		
P.O. Box 14145 2366 Bernville Road			24-Hour Emergency	STIC: 800-424-9300	CHEMTREC INTL-	703-527-3877
Reading, PA 19612-4145			CHEMITREC DOME.	511C. 800-424-9300	CHEMITKED INTE.	103-321-3811
II GHS HAZARDS IDENTFICATION						
HEALTH		1	ENVIRONMENTAL			PHYSICAL
Acute Toxicity		1	Aquatic Chronic 1		Explosive	Chemical, Division 1.3
(Oral/Dermal/Inhalation)	Category 4		Aquatic Acute 1			
Skin Corrosion/Irritation	Category 1A					
Eye Damage	Category 1					
Reproductive	Category 1A					
Carcinogenicity (lead compounds)	Category 1B					
Carcinogenicity (arsenic)	Category 1A					
Carcinogenicity (acid mist)	Category 1A					
Specific Target Organ	Category 2					
Toxicity (repeated exposure)						
GHS LABEL: HEALTH		1	ENVIRONMENTAL		-	PHYSICAL
Hazard Statements DANGER! Causes severe skin burns and serious eye May damage fertility or the unborn child inhaled. May cause cancer if ingested or inhaled. Causes damage to central nervous system kidneys through prolonged or repeated ex May form explosive air/gas mixture durit Extremely flammable gas (hydrogen). Explosive, fire, blast, or projection hazard May causes harm to breast-fed children Harmful if swallowed, inhaled, or contact Causes skin irritation, serious eye damage	if ingested or h, blood and cposure. ng charging. d. t with skin e.	Precautionary Statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid. Irritating to eyes, respiratory system, and skin. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood Avoid contact during pregnancy/while nursing Keep away from heat/sparks/open flames/hot surfaces. No smoking				
III. COMPOSITION/INFORMATIO:	S ON INGREDIENTS			1		
Components		CAS Number	Approximate % by Wt.			
Inorganic Lead Compound:				1		
Lead		7439-92-1	60-70			
 Antimony 		7440-36-0	2			
* Arsenic		7440-38-2	0.2			
* Calcium		7440-70-2	0.04			
* Tin Electrolyte (Sulfuric Acid (H2SO4/H20	0.00	7440-31-5	0.2 10-30			
Electrolyte (Sulturic Acid (H2SO4/H20 Case Material:	70	7664-93-9	5-10	1		
Polypropylene		9003-07-0				
Polystyrene		9003-53-6				
Styrene Acrylonitrile		9003-54-7				
Acrylonitrile Butadiene Styr	rene	9003-56-9				
Styrene Butadiene		9003-55-8				
Polyvinylchloride		9002-86-2				
Polycarbonate, Hard Rubbe	r, Polyethylene	9002-88-4				

E	•				Form #: SDS 853020	
Ene	erSys. sa	FETY DATA SH	FFT		Revised: AB	
	5A 5A	FETT DATA SH			Supersedes: AA	
	Power/Full Solutions				ECO #: 1001828	
Other:						
	Silicon Dioxide (Gel batteries only)	7631-86-9	1-5			
	Sheet Molding Compound					
	(Glass reinforced polyester)		1.0. 6.1			
	Inorganic lead and electrolyte (sulfuric acid) are the pr Other ingredients may be present dependent upon batt					
IV FIDS	T AID MEASURES	ery type. Contact you	enersys representative	e for additional information.		
Inhalation						
	Sulfuric Acid: Remove to fresh air immediately. If be	reathing is difficult, giv	e oxygen. Consult a ph	ysician.		
	Lead: Remove from exposure, gargle, wash nose and	lips; consult physician.				
Ingestion:						
	Sulfuric Acid: Give large quantities of water; do not i	nduce vomiting or aspi	ration into the lungs m	ay occur and can cause permanent injury or	death;	
	consult a physician.					
	Lead: Consult physician immediately.					
Skin:	Sulfuric Acid: Flush with large amounts of water for a	at least 15 minutes: ren	ove contaminated clot	hing completely including shoes		
	If symptoms persist, seek medical attention. Wash cor					
	Lead: Wash immediately with soap and water.	naminaneu cioaning oci	ore rease. Esiscard com			
Eyes:						
	Sulfuric Acid and Lead: Flush immediately with large	amounts of water for a	a least 15 minutes while	e lifting lids.		
	Seek immediate medical attention if eyes have been en	xposed directly to acid.				
	FIGHTING MEASURES					
Flash Poir			LEL = 4.1% (Hydroger			
-	ing Media: CO2; foam; dry chemical. Do not use carbo	on dioxide directly on c	ells. Avoid breathing v	apors. Use appropriate media for surroundin	g fire.	
Special Fi	re Fighting Procedures:	10		Water and list and standard and standard		
	If batteries are on charge, shut off power. Use positiv	• •		. Water applied to electrolyte generates		
	 heat and causes it to spatter. Wear acid-resistant cloth But note that strings of series connected batteries may 			maing aquinment is shut down		
Universal F	ire and Explosion Hazards:	star pose risk of elecu	ie snock even when en	a ging equipment is shut down.		
Citusual r	Highly flammable hydrogen gas is generated during cl	harging and operation o	f batteries. To avoid ri	isk of fire or explosion, keep sparks or other		
	sources of ignition away from batteries. Do not allow					
	batteries. Follow manufacturer's instructions for insta			· ·		
VI. ACCI	DENTAL RELEASE MEASURES					
Spill or Le	ak Procedures:					
	Stop flow of material, contain/absorb small spills with				t	
	neutralize spilled electrolyte with soda ash, sodium bi					
	allow discharge of unneutralized acid to sewer. Acid r	-	ordance with local, sta	te, and federal requirements.		
VII. II.	Consult state environmental agency and/or federal EP.	Α.				
Handling:	DLING AND STORAGE					
	olved in recycling operations, do not breach the casing o	rempty the contents of	the battery. Handle car	efully and avoid tinning.		
	allow electrolyte leakage. There may be increasing risk					
	iners tightly closed when not in use. If battery case is be					
	caps on and cover terminals to prevent short circuits. Pl				ircuits.	
Keep away	from combustible materials, organic chemicals, reducin	g substances, metals, st	trong oxidizers and wat	er. Use banding or stretch wrap to secure it	ems for	
shipping.						
Storage:						
	ries in cool, dry, well-ventilated areas with impervious st					
	red under roof for protection against adverse weather cor	-	-	-		
	th adequate water supply and spill control. Avoid damag		away from fire, sparks	and heat. Keep away from metallic objects o	ould	
	terminals on a battery and create a dangerous short-circu	н.				
Charging: There is a		and from strings of and	ar compacted betterior	whather or not being charmed Chut off	ar to	
	possible risk of electric shock from charging equipment a banavar not in use and bafere detachment of any circuit	-			A 10	
	chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas. Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby.					
	and eye protection when near batteries being charged.	and a realized anothing	and a rose creation of t	and sparse marky.		
stand met						

EnerSys.	SA	R	Form #: SDS 853020 Revised: AB Supersedes: AA ECO #: 1001828			
/III. EXPOSURE CONTROLS/P /xposure Limits (mg/m3) Note: N	ERSONAL PROTECTION					
Aposite Limits (mg/m3) Note: N	E.= Not Established					
NGREDIENTS	OSHA PEL	ACGIH	US NIOSH	Ouebec PEV	Ontario OEL	EU OEL
Chemical/Common Names)				4		
ead and Lead Compounds						
norganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)
ntimony	0.5	0.5	0.5	0.5	0.5	0.5 (b,e)
rsenic	0.01	0.01	0.002	0.2	0.01	N.E
alcium	N.E	N.E	N.E	N.E	N.E	N.E
ín	2	2	2	2	2	N.E
lectrolyte (Sulfuric Acid)	1	0.2	1	1	0.2	0.05 (c)
olypropylene	N.E	N.E	N.E	N.E	N.E	N.E
olystyrene	N.E	N.E	N.E	N.E	N.E	N.E
yrene Acrylonitrile	N.E	N.E	N.E	N.E	N.E	N.E
crylonitrile Butadiene tyrene	NE	NE	NE	NE	NE	NE
tyrene Butadiene	N.E	N.E N.E	N.E.	N.E	N.E	N.E.
olyvinylchloride	N.E N.E	N.E N.E	N.E.	N.E N.E	1	N.E.
olycarbonate, Hard	PLE .	19.15	19.10	19.45		19.45
ubber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
ilicon Dioxide	N.E	ivin.	18.45	19.15	N.E.	19.15
Gel Batteries Only)	N.E	N.E	N.E	N.E	NE	N.E
heet Molding Compound Glass reinforced polyester)	N.E	NE	N.E	N.E	N.E	N.E
Handle batteries cautio clothing, eye and face p positive and negative to espiratory Protection (NIOSH/M None required under ne respiratory protection. kin Protection: If battery case is damag ye Protection: If battery case is damag	I-ventilated area. If mechanica usly to avoid spills. Make cert rotection when filling, chargin eminals of the batteries. Charg	ain vent caps are on s g or handling batterio e the batteries in area ntrations of sulfuric a esistant gloves with o	ecurely. Avoid contact v is. Do not allow metallic is with adequate ventilati cid mist are known to ex-	with internal componer materials to simultane on. General dilution vo ceed the PEL, use NIO	ously contact both the entilation is acceptable. SH or MSHA-approved	
with unlimited water su		nder severe exposure	emergency conditions, w		•	
Boiling Point:	construction of the second sec	203 - 240° F	Specific Gravity (H2	0 = 1):	1.215 to 1.350	
Melting Point:		N/A	Vapor Pressure (mm		10	
Solubility in Water:		100%	Vapor Density (AIR		Greater than 1	
Evaporation Rate: (B	utyl Acetate = 1)	Less than 1	% Volatile by Weigh		N/A	
	pH		Flash Point:		Below room temperatur	e (as hydrogen gas)
LEL (Lower Explosiv	e Limit)	4.1% (Hydrogen)	UEL (Upper Explosi	ve Limit)	74.2% (Hydrogen)	(

Ene	SAFETY DATA SHEET	Form #: SDS 853020 Revised: AB Supersedes: AA
	Power/Full Solutions	ECO #: 1001828
	LITY AND REACTIVITY	
Stability: 5		
-	ct is stable under normal conditions at ambient temperature. To Avoid: Prolonged overcharge; sources of ignition	
	ility: (Materials to avoid)	
incomparin	Suffuric Acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents	
	metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable	
	hydrogen gas.	
	Lead Compounds: Avoid contact with strong acids, bases, balides, balogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen	
	and reducing agents.	
	Arsenic compounds: strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsine.	
Hazardous	Decomposition Products: Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.	
	Lead Compounds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent	
	hydrogen may generate highly toxic arsine gas.	
Hazardous	Polymerization:	
	Will not occur	
	OLOGICAL INFORMATION	
Routes of I		
	Sulfuric Acid: Harmful by all routes of entry. Lead Compounds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapo	
	reau compounds. Frazinous exposure can occur only when product is neared, oxidized of otherwise processed of damaged to create dust, vapo or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.	r
Inhalation:		
	Sulfuric Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.	
	Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.	
Ingestion:		
	Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.	
	Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to system	iic
ette Certe	toxicity and must be treated by a physician.	
Skin Conta	et: Sulfuric Acid: Severe irritation, burns and ulceration.	
	Lead Compounds: Not absorbed through the skin.	
	Arsenic Compounds: Contact may cause dermatitis and skin hyper pigmentation.	
Eye Contac		
	Sulfuric Acid: Severe irritation , burns, cornea damage, and blindness.	
	Lead Components: May cause eye irritation.	
Effects of (Dverexposure - Acute:	
	<u>Sulfuric Acid:</u> Severe skin irritation, damage to cornea, upper respiratory irritation. <u>Lead Compounds:</u> Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep	
	disturbances and irritability.	
Effects of (Dverexposure - Chronic:	
	Sulfuric Acid: Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.	
	Lead Compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and	
	females. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abnor	mal
	conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system da	image,
	encephalopathy and damage to the blood-forming (hematopoietic) tissues.	
Carcinoger	heity: Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as a	
	Summer events in the international Agency for Research of Cancer (ArCe) has classified autorg integrate actual inst containing summer actuals a Group 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric	
	acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of th	10
	product, such as overcharging, may result in the generation of sulfuric acid mist.	
	Lead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 1910.	1200
	Appendix F, this is approximately equivalent to GHS Category 1B. Proof of carcinogenicity in humans is lacking at present.	
	Arsenic: Arsenic is listed by IARC as a Group 1 - carcinogenic to humans. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F, thi	is is
	approximately equivalent to GHS Category 1A.	
Medical Co	onditions Generally Aggravated by Exposure:	
	Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravate	te
	diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.	

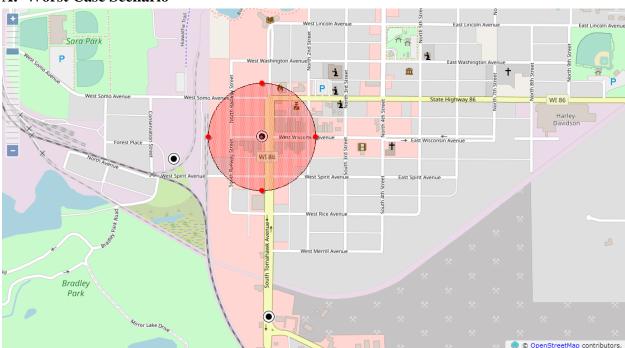
Ene	SAFETY DATA SHEET		SDS 853020 AB s: AA 1001828
Acute Toxic		ECO #:	1001828
Inhalation L			
	LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3		
	ead: Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion)		
	rsenic: No data		
Oral LD50:			
Electrolyte:	rat: 2140 mg/kg		
Elemental L	ead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)		
	rsenie: LD50 mouse: 145 mg/kg		
Elemental A	ntimony: LD50 rat: 100 mg/kg		
Additional	Health Data:		
Additional			
	All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion. Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8.		
	Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the	ha	
	worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of		
	tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated area		
	never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated it		
	children and their environment.		
	The 19th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction.		
	Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.		
	OGICAL INFORMATION		
Environme			
	Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments	is slow.	
	Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain.		
Favironme	Most studies include lead compounds and not elemental lead. ntal Toxicity: Aquatic Toxicity:		
Easynonine	Sulfuric acid: 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L		
	96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L		
	Lead: 48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion		
	Arsenic: 24 hr LC50, freshwater fish (Carrassisus auratus) >5000 g/L.		
Additional	Information:		
	· No known effects on stratospheric ozone depletion.		
	· Volatile organic compounds: 0% (by Volume)		
	· Water Endangering Class (WGK): NA		
	DSAL CONSIDERATIONS (UNITED STATES)		
	ries: Send to secondary lead smelter for recycling. Spent lead-acid batteries are not regulated as hazardous waste when the requirements of		
	tion 266.80 are met. This should be managed in accordance with approved local, state and federal requirements. Consult state environmental or federal EPA.		
Electrolyte:			
	lized slurry into sealed containers and handle as applicable with state and federal regulations. Large water-diluted spills, after		
	in and testing, should be managed in accordance with approved local, state and federal requirements. Consult state environmental		
	or federal EPA.		
- ·	cal, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.		
	SPORT INFORMATION		
U.S. DOT:			
	The transportation of wet and moist charged (moist active) batteries within the continental United States is regulated by the U.S. DOT		
	through the Code of Federal Regulations, Title 49 (49CFR). These regulations classify these types of batteries as a hazardous material.		
	Refer to 49 CFR, 173.159 for more details pertaining to the transportation of wet and moist batteries.		
	The shipping information is as follows:		
	Proper Shipping Name: Batteries, wet, filled with acid Packing Group: N/A		
	Hazardous Class: 8 Label/Placard Required: Corrosive		
	UN Identification: UN2794		
	Contact your EnerSys representative for additional information regarding the classification of batteries.		
40 CED 122	.159(e) specifies that when transported by highway or rail, electric storage batteries containing electrolyte or corrosive battery fluid are not subject		
	1.159(e) specifies that when transported by highway or rail, electric storage batteries containing electrotyte or corrosive battery fluid are not subject quirements of this subchapter, if all of the following are met:		
any other rec	(1) No other hazardous materials may be transported in the same vehicle;		
	 (1) No other main does materials may be transported in the same ventre, (2) The batteries must be loaded or braced so as to prevent damage and short circuits in transit; 		
	(3) Any other material loaded in the same vehicle must be blocked, braced, or otherwise secured to prevent contact with or damage to the batterio.	es; and	
	(4) The transport vehicle may not carry material shipped by any person other than the shipper of the batteries.		
If any of the	above-referenced requirements are not met, the batteries must be shipped as fully-regulated Class 8 Corrosive hazardous materials.		

EnerSys.		FETY DATA SHEE	т	Form #: SDS 853020 Revised: AB Supersedes: AA ECO #: 1001828
(IATA). T	tional transportation of wet and moist char		is regulated by the International Air Transport Ass aterial. The batteries must be packed according to	
The shippin	ng information is as follows: Proper Shipping Name: Batteries, Hazardous Class: 8 UN Identification: UN2794	wet, filled with acid	Packing Group: N/A Label/Placard Required: Corro	sive
	ar EnerSys representative for additional inf	formation regarding the clas	sification of batteries.	
Goods code IMDG code	(IMDG). These regulations also classify pages 8120 and 8121. IMDG Code Pack in information is as follows: Proper Shipping Name: Batteries, v	these types of batteries as h ing Instruction P801.	is regulated by the International Maritime Dangers azardous material. The batteries must be packed a Packing Group: N/A Label/Diraced Pacavieth Course	ccording to
	Hazardous Class: 8 UN Identification: UN2794		Label/Placard Required: Corro	sive
Contact vo	ar EnerSys representative for additional inf	ormation regarding the clas	sification of batteries.	
V. REGULATORY E		contained regarding the case	onitalitori di duntarta.	
NITED STATES:				
PA SARA Title III:				
	remely Hazardous Substances (EHS):			
	-		Threshold Planning Quantity (TPQ) of 1,000 lbs.	
EPCRA Se	ction 302 notification is required if 1000 lb	s or more of sulfuric acid i	s present at one site (40 CFR 370.10). For more inf	ormation consult
40 CFR Par	t 355. The quantity of sulfuric acid will va	ry by battery type. Contact	your EnerSys representative for additional information	tion.
ection 304 CERCLA H	azardous Substances:			
	Quantity (RQ) for spilled 100% sulfuric ac	id under CERCLA (Superf	ind) and	
		to Know Act) is 1,000 lbs.	State and local reportable quantities for spilled sulf	uric acid may vary.
ection 311/312 Hazard				
EPCRA Se	ction 312 Tier Two reporting is required fo	r non-automotive batteries	if sulfuric acid is present in quantities of 500 lbs or	more and/or if lead is
present in c	uantities of 10,000 lbs or more. For more i	information consult 40 CFF	370.10 and 40 CFR 370.40	
ection 313 EPCRA Tox	tic Substances:			
		is many out in the outlinks of a	covered facility, a person is not required to conside	- the constitute of the
	-		reshold has been met under § 372.25, § 372.27, or	
determining	g the amount of release to be reported unde	r § 372.30. This exemption	applies whether the person received the article fro	m another person
or the perso	n produced the article. However, this exen	nption applies only to the q	uantity of the toxic chemical present in the article.	
upplier Notification:				
	e anne instantis de minde andrie anne ba	EDCD & C	entire 212 Terris Chemical Belance Inventory (Fra	D)
			ection 313 Toxic Chemical Release Inventory (For	
If you are a	manufacturing facility under SIC codes 20	through 39, the following	information is provided to enable you to complete	the required reports:
	Toxic Chemical	CAS Number	Approximate % by Wt.	
	Lead	7439-92-1	60	
	Electrolyte			
	(Sulfuric Acid (H2SO4/H2O))	7664-93-9	10 - 30	
	* Antimony	7440-36-0	2	
	* Arsenic	7440-38-2	0.2	
	Tin	7440-31-5	0.2	
See 40 CR	G Part 370 for more details.			
If you distri of each cale		a SIC Codes 20 through 39,	this information must be provided with the first sh	ipment
The Section	1 313 supplier notification requirement doe	s not apply to batteries, wh	ich are "consumer products".	
The Section				
	ent in all battery types. Contact your Eners		-	

EnerSys.	SAFETY DATA SHEET	Form #: SDS 853020 Revised: AB Supersedes: AA ECO #: 1001828
TSCA: TSCA Section 8b – Inventor	ry Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.	
TSCA Section 12b (40 CFR context of individual sectio	R Part 707.60(b)) No notice of export will be required for articles, except PCB articles, unless the Agen on 5, 6, or 7 actions.	cy so requires in the
	Part 707.20): No import certification required (EPA 305-B-99-001, June 1999, Introduction to the ents of the Toxic Substances Control Act, Section IV.A).	
-	are subject to streamlined handling requirements when managed in compliance with 40 CFR section 26 racteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).	56.80 or 40 CFR part 273.
chemicals (ODC's), defined	ive actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone dr l by the USEPA as Class I substances. Pursuant to Section 611 of the Clean Air Act Amendments (CAA y 19, 1993, EnerSys established a policy to eliminate the use of Class I ODC's prior to the May 15, 199	AA)
	minals and related accessories contain lead and lead compounds, chemicals known to the State of Calif rm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hanc	
-	follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2). follow applicable Directives to the Use, Import/Export of the product as-sold.	
XVI. OTHER INFORMATION		
Revision: AB (04-25-17) NFPA Hazard Rating for Sulfuric Acid Flammability (Red) = 0 Health (Blue) = 3	d: Reactivity (Yellow) = 2 Sulfuric acid is water-reactive if concentrated.	
	the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent all isclaims any liability to any third party, including users of this product, including, but not lir or reliance on, this Safety Data Sheet.	2

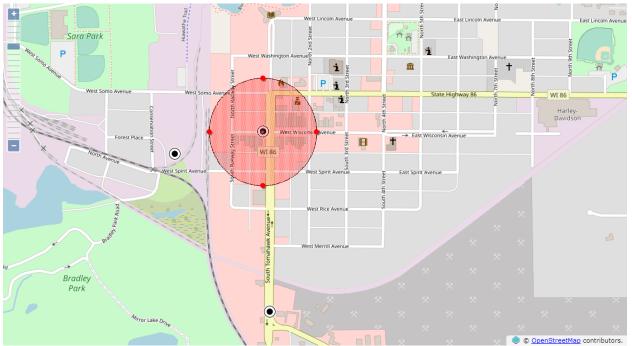


Vulnerability Zone Maps for Sulfuric Acid



A. Worst Case Scenario

B. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



EMERGENCY MANAGEMENT



2023 Off Site Plan: Interflex Group

Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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I. Facility Information

A. Interflex Group

- 1. Address: 1401 West Taylor Street, Merrill, WI 54452
- 2. Phone: (715) 536-5400
- 3. Facility ID # (Assigned by WEM): 197616

II.Facility Emergency Contacts

A. Tier II Contact:

- 1. Name: Beverly Kershner
- 2. Position: Environment Specialist
- 3. Office Phone: (484) 553-6676
- 4. Emergency Phone: (484) 553-6676
- 5. Email: bkershner@complianceplace.com

B. Tier II Emergency Coordinator:

- 1. Name: Jim Loos
- 2. Position: Plant Manager
- 3. Office Phone: (715) 536-5400
- 4. Emergency Phone: (715) 921-9874
- 5. Email: jloos@interflexgroup.com

C. Tier II Emergency Contact:

- 1. Name: Scottie Nicholson
- 2. Position: Ink Room Technician
- 3. Office Phone: (715) 536-5400
- 4. Emergency Phone: (715) 218-4714
- 5. Email: snicholson<u>@interflexgroup.com</u>

D. Tier II Emergency Contact

- 1. Name: Andy Moses
- 2. Position: Operations Manager
- 3. Office Phone: (715) 536-5400
- 4. Emergency Phone: (715) 216-7945
- 5. Email: amoses@interflexgroup.com

III. Extremely Hazardous Substances (EHS)

A. EHS Chemicals OVER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
7664-93-9	Sulfuric Acid	5,879	5,879	< 0.1 miles

IV. Primary Emergency Responders

A. Lincoln County Sheriff's Office

1. Phone: 911 or (715) 563-6272

B. Lincoln County Emergency Communications Center

1. Phone: 911 or (715) 563-6272

C. Lincoln County Emergency Management

1. Phone: (715) 218-0128

D. Merrill Fire Department

1. Phone: 911 or (715) 536-2233

E. Merrill Police Department

1. Phone: 911 or (715) 536-8311

V. Support Available at Facility

A. Chemical Emergency Monitoring Equipment:

1. None

B. Personal Protective Equipment:

1. None

C. Other Equipment or Supplies:

1. None

D. Outside Resources Available:

- 1. Lincoln County Emergency Management
 - a) Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

- 2. Chemtrec: (800) 424-9300
 - a) Unknown response time
- 3. National Response Center: (800) 424-8802
 - a) Unknown response time
- 4. REI—Spill & Response Recovery: (800) 734-7745
 - a) Unknown response time

VI. General information and Assumptions (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA) Technical Guidance for Hazard Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of an EHS occur.

A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the hazard analysis summary.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO*fm* cannot compute zones greater than 10 miles nor less than 0.1 miles. Thus, results that fall into these situations will be notes as "> 10 miles" or "< 0.1 miles".

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

VII. Hazard Analysis Summary

For over 40 years Interflex has been an innovator in flexible packaging solutions with flexible, responsive service as key to their value proposition. Their team supports a range of recognized brands in specialty packaged goods segments in the US, UK, and Europe.

A. Greatest Potential for Release

1. Sulfuric acid is the only extremely hazardous chemical present at the facility and therefore presents the greatest potential for release. However, the sulfuric acid is a component of and contained in electric forklift and pallet jack batteries.

B. Vulnerability Zones (by chemical)

Sulfuric Acid: CAS #7664-93-9						
Amount Released:	5,8	5,879 lbs.				
Concentration:	10	100%				
Physical State:	Lic	quid (Ambient)				
Diked Area:	No)				
Level of Concern (LOC):	0.0	008 gm/m^3				
LOC Type:	Greenbook LOC					
Worst Case Scenario	Worst Case ScenarioRe-Evaluation Scenario					
Duration:		10 minutes	Duration	10 minutes		
Wind Speed:		3.4 mph	Wind Speed:	11.9 mph		
Ground Roughness:		Rural	Ground Roughness:	Urban		
Atmospheric Stability Clas	s:	F	Atmospheric Stability Class:	D		
Risk:		Low	Risk:	Low		
Consequences:		Low	Consequences:	Low		
Overall Risk:		Low	Overall Risk:	Low		
Threat Zone Radius:		< 0.1 miles	Threat Zone Radius:	< 0.1 miles		

C. Estimation of Population Affected

- 1. Sulfuric Acid
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would potentially be isolated to any of the eighty-four (84) full-time employees and no other persons or special facilities.
 - b) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would potentially be isolated to any of the eighty-four (84) full-time employees and no other persons or special facilities.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

D. Critical Infrastructure

1. None

E. Hospital

1. None

F. Nursing Homes/Assisted Living Facilities

1. None

G. Schools

1. None

H. Child Care/Day Care

1. None

VIII. Population Protection

The determination to shelter in-place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter-in-place. Preferred areas for protective sheltering would be interior hallways, rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.

IX. Special Considerations

A. None

X. Distribution List

- Interflex Group
- Merrill Fire Department
- Wisconsin Emergency Management Northeast Regional Office
- Oneida County Sheriff Office Hazardous Materials Response Team
- Wausau Wisconsin Hazardous Response Team
- Oneida County Emergency Management

XI. Supporting Documentation

A. Attachments

- 1. Attachment A, Record of Change and Review
- 2. Attachment B, Facility Layout and Site Information
- 3. Attachment C, Transportation Route Map
- 4. Attachment D, Safety Data Sheet for Sulfuric Acid
- 5. Attachment E, Vulnerability Zone Map for Sulfuric Acid

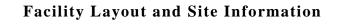
Attachment A

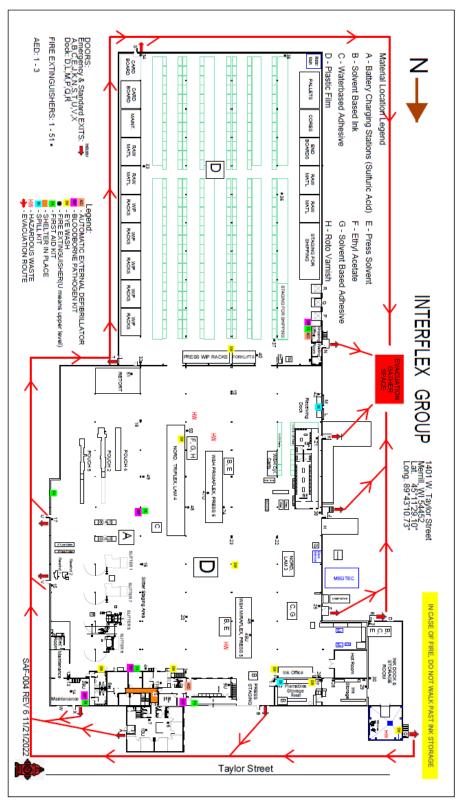
Record of Change/ Review /Signature

Date	Contributor	Description of Change	Page Number(s)
12-5-2023	T. Verhasselt and B. Kershner	Authored plan and reviewed with Interflex Group for accuracy. Tier II contacts were updated, to include phone numbers. Greatest potential for release updated to reflect sulfuric acid being battery acid. Added updated facility layout and site information.	Pgs. 1-21

Please see EPCRA Hazardous Materials Off-Site Plan Transmittal Form for approval and signatures.

Attachment B





Attachment C

Transportation Route Map



Attachment D

CHAWKE	R s	SAFETY DATA SH	EET		Revised: AA (06-16-16) Supersedes: 05/14/2015 ECO #: 1001735
I. PRODUCT IDENTIFICATION					
Chemical Trade Name (as used on I	label):		Chemical Family/Cla		
Lead-Acid Battery, Wet			Electric Storage Batter	ry	
iynonyms: ndustrial Battery, Traction Battery, S	Stationers Batters		Telephones		
Deep Cycle Battery	stationary battery,		Telephone: For information and ex-	mergencies, contact Ha	where
Manufacturer's Name/Address;				-	-238-5700 ATTN: Kevin P. Wileman
lawker Powersource			Lawnonnenan, rream	rac outry toept in 425	-230-5700 ATTA: Revin F. Wilcham
O. Box 808			24-Hour Emergency	Response Contact:	
404 Ooltewah Indsutrial Drive					CHEMTREC INTL: 703-527-3877
Joltewah, TN 37363					
I GHS HAZARDS IDENTFICATI	ION				
HEALT	Н		ENVIRONMENTAL		PHYSICAL
Acute Toxicity			Aquatic Chronic 1		Explosive Chemical, Division 1.3
Oral/Dermal/Inhalation)	Category 4		Aquatic Acute I		
kin Corrosion/Irritation	Category 1A				
iye Damage	Category 1				
Reproductive	Category 1A	1			
larcinogenicity (lead compoun	Category 1B	1			
Carcinogenicity (arsenic)	Category 1A	1			
Carcinogenicity (acid mist)	Category 1A	1			
Specific Target Organ Foxicity (repeated exposure)	Category 2				
GHS LABEL:					
HEALT	н		ENVIRONMENTAL		PHYSICAL
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Hazard Statements DANGER! Causes severe skin burns and serious May damage fertility or the unborn ch nhaled.		Wash thoroughly after Do not eat, drink or si Wear protective glove	r handling. moke when using this p	ye protection/face prot	cetion.
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	HAWKER SA	FETY DATA SHI	EET		Form #: SDS 853020H Revised: AA (06-16-16) Supersedes: 05/14/2015 ECO #: 1001735
Other:					
	Silicon Dioxide (Gel batteries only)	7631-86-9	1-5		
	Sheet Molding Compound				
	(Glass reinforced polyester)				
	Inorganic lead and electrolyte (sulfuric acid) are the pr				
	Other ingredients may be present dependent upon batt	ery type. Contact your	Hawker representative	for additional information.	
	T AID MEASURES				
Inhalation	<u>Sulfuric Acid:</u> Remove to fresh air immediately. If br <u>Lead:</u> Remove from exposure, gargle, wash nose and i		e oxygen. Consult a phy	sician	
Ingestion:					
	Sulfuric Acid: Give large quantities of water; do not in	duce vomiting or aspir	ation into the lungs ma	y occur and can cause permanent injury	or death;
	consult a physician				
	Lead: Consult physician immediately.				
Skin:					
	Sulfuric Acid: Flush with large amounts of water for a				
	If symptoms persist, seek medical attention. Wash con	taminated clothing befo	re reuse. Discard conta	minated shoes	
	Lead: Wash immediately with soap and water.				
Eyes:					
	Sulfuric Acid and Lead: Flush immediately with large		least 15 minutes while	lifting lids	
	Seek immediate medical attention if eyes have been ex	posed directly to acid.			
V. FIRE I Flash Poin	FIGHTING MEASURES			(Gas) UEL = 74.2%	
	hing Media: CO2; foam; dry chemical. Do not use carbo	Flammable Limits:			ding fire
	ing Media: CO2; toan; dry chemical: Do not use carbo ire Fighting Procedures:	i dioxide directly of ce	its. Avoid breathing vi	pors. Use appropriate media for surroun	ung me.
Unusual F	If batteries are on charge, shut off power. Use positiv heat and causes it to spatter. Wear acid-resistant cloth But note that strings of series connected batteries may Fire and Explosion Hazards: Highly flammable hydrogen gas is generated during ch	ing, gloves, face and ey still pose risk of electri	e protection. c shock even when cha	rging equipment is shut down.	ter
	sources of ignition away from batteries. Do not allow				
	batteries. Follow manufacturer's instructions for instal				
VI. ACCI	IDENTAL RELEASE MEASURES				
Spill or Le	eak Procedures:				
	Stop flow of material, contain/absorb small spills with	dry sand, earth, and ver	miculite. Do not use c	ombustible materials. If possible, carefu	illy
	neutralize spilled electrolyte with soda ash, sodium bio	arbonate, lime, etc. We	ear acid-resistant clothi	ng, boots, gloves, and face shield. Do n	
	allow discharge of unneutralized acid to sewer. Acid n				DE
		just be managed in acco		e, and federal requirements.	DE .
	Consult state environmental agency and/or federal EP/			e, and federal requirements.	M
VII. HAN				e, and federal requirements.	ot
VII. HAN Handling:	Consult state environmental agency and/or federal EP/ NDLING AND STORAGE			e, and federal requirements.	SK
Handling:	Consult state environmental agency and/or federal EP/ NDLING AND STORAGE		ordance with local, stat		26
Handling: Unless inv	Consult state environmental agency and/or federal EP/ NDLING AND STORAGE	empty the contents of t	he battery. Handle care	fully and avoid tipping,	26
Handling: Unless inv which may	Consult state environmental agency and/or federal EP/ NDLING AND STORAGE volved in recycling operations, do not breach the casing or	empty the contents of t f electric shock from st	he battery. Handle care	fully and avoid tipping,	94
Handling; Unless inv which may Keep conta Keep vent	Consult state environmental agency and/or federal EP/ NDLING AND STORAGE rolved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of ainers tightly closed when not in use. If battery case is be caps on and cover terminals to prevent short circuits. Pla	empty the contents of t f electric shock from st oken, avoid contact wit ce cardboard between 1	he battery. Handle card rings of connected batt h internal components. ayers of stacked autom	fully and avoid tipping, eries. otive batteries to avoid damage and shor	t circuits.
Handling: Unless inv which may Keep conta Keep vent Keep away	Consult state environmental agency and/or federal EP/ NDLING AND STORAGE volved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of ainers tightly closed when not in use. If battery case is br	empty the contents of t f electric shock from st oken, avoid contact wit ce cardboard between 1	he battery. Handle card rings of connected batt h internal components. ayers of stacked autom	fully and avoid tipping, eries. otive batteries to avoid damage and shor	t circuits.
Handling; Unless inv which may Keep conta Keep vent	Consult state environmental agency and/or federal EP/ NDLING AND STORAGE rolved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of ainers tightly closed when not in use. If battery case is be caps on and cover terminals to prevent short circuits. Pla	empty the contents of t f electric shock from st oken, avoid contact wit ce cardboard between 1	he battery. Handle card rings of connected batt h internal components. ayers of stacked autom	fully and avoid tipping, eries. otive batteries to avoid damage and shor	t circuits.
Handling: Unless inv which may Keep conta Keep vent Keep away shipping. Storage:	Consult state environmental agency and/or federal EP/ SDLING AND STORAGE volved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of ainers tightly closed when not in use. If battery case is be caps on and cover terminals to prevent short circuits. Pla y from combustible materials, organic chemicals, reducing	empty the contents of ti f electric shock from st oken, avoid contact with ce cardboard between li substances, metals, str	ndance with local, stat	fully and avoid tipping, eries. otive batteries to avoid damage and shor r. Use banding or stretch wrap to secure	t circuits.
Handling: Unless inv which may Keep conta Keep vent Keep away shipping. Storage: Store batte	Consult state environmental agency and/or federal EP/ NDLING AND STORAGE volved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of ainers tightly closed when not in use. If battery case is be caps on and cover terminals to prevent short circuits. Play y from combustible materials, organic chemicals, reducing eries in cool, dry, well-ventilated areas with impervious su	empty the contents of ti f electric shock from st sken, avoid contact with ce cardboard between l substances, metals, stu- rfaces and adequate co	ndance with local, stat he battery. Handle caro rings of connected bath h internal components. ayers of stacked autom ong oxidizers and wata stainment in the event	fully and avoid tipping, eries. otive batteries to avoid damage and shor rr. Use banding or stretch wrap to secure of spills. Batteries should	t circuits.
Handling: Unless invo which may Keep conta Keep vent Keep away shipping. Storage: Store batte also be stor	Consult state environmental agency and/or federal EP/ DLING AND STORAGE ordved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of ainers tightly closed when not in use. If battery case is be caps on and cover terminals to prevent short circuits. Pla y from combustible materials, organic chemicals, reducing eries in cool, dry, well-ventilated areas with impervious su red under roof for protection against adverse weather con	empty the contents of f f electric shock from st oken, avoid contract with ce cardboard between 1 substances, metals, str rfaces and adequate co ditions. Separate from	infance with local, stat he battery. Handle care rings of connected batt h internal components, ayers of stacked autom ong oxidizers and wate ntainment in the event incompatible materials	efully and avoid tipping, eries. otive batteries to avoid damage and shor rr. Use banding or stretch wrap to secure of spills. Batteries should . Store and handle only	t circuits. e items for
Handling: Unless invo which may Keep conta Keep vent Keep away shipping. Storage: Store batte also be stor in areas wi	Consult state environmental agency and/or federal EP/ DLING AND STORAGE volved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of aincers tightly closed when not in use. If battery case is br caps on and cover terminals to prevent short circuits. Pla y from combustible materials, organic chemicals, reducing eries in cool, dry, well-ventilated areas with impervious su red under roof for protection against adverse weather con ith adequate water supply and spill control. Avoid damag	empty the contents of f f electric shock from st oken, avoid contact wit ce cardboard between I substances, metals, str rfaces and adequate con flictors. Separate from e to containers. Keep a	infance with local, stat he battery. Handle care rings of connected batt h internal components, ayers of stacked autom ong oxidizers and wate ntainment in the event incompatible materials	efully and avoid tipping, eries. otive batteries to avoid damage and shor rr. Use banding or stretch wrap to secure of spills. Batteries should . Store and handle only	t circuits. e items for
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Handling: Unless inv which may keep conta Keep vent Keep away shipping. Storage: Storage: Store batte also be stoo in areas wi bridge the Charging:	Consult state environmental agency and/or federal EP/ DUING AND STORAGE ovlved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of ainers tightly closed when not in use. If battery case is be caps on and cover terminals to prevent short circuits. Play from combustible materials, organic chemicals, reducing eries in cool, dry, well-ventilated areas with impervious su red under roof for protection against adverse weather con th adequate water supply and spill control. Avoid damag terminals on a battery and create a dangerous short-circuit	empty the contents of t f electric shock from st oken, avoid contact with c cardboard between l substances, metals, str rfaces and adequate co ditions. Separate from t to containers. Keep a t.	indance with local, stat he battery. Handle caro rings of connected bath h internal components. ayers of stacked autom ong oxidizers and wato ntainment in the event incompatible materials way from fire, sparks a	efully and avoid tipping, eries. otive batteries to avoid damage and shor rr. Use banding or stretch wrap to secur of spills. Batteries should . Store and handle only nd heat. Keep away from metallic object	t circuits. e items for ts could
Handling: Unless inv which may keep conta Keep vent Keep away shipping. Store batte also be sto batte also be sto bridge the Charging: There is a	Consult state environmental agency and/or federal EP/ DLING AND STORAGE volved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk s ainers tightly closed when not in use. If battery case is br caps on and cover terminals to prevent short circuits. Play y from combustible materials, organic chemicals, reducing eries in cool, dry, well-ventilated areas with impervious su red under roof for protection against adverse weather con ifth adequate water supply and spill control. Avoid damag terminals on a battery and create a dangerous short-circuit	empty the contents of f f electric shock from st oken, woid contact with ce cardboard between 1 substances, metals, str rfaces and adequate co ditions. Separate from e to containers. Keep a L.	infance with local, stat he battery. Handle care rings of connected batt h internal components, agers of stacked autom ong oxidizers and wate ntainment in the event incompatible materials way from fire, sparks a s connected batteries, s	efully and avoid tipping, eries. otive batteries to avoid damage and shor rr. Use banding or stretch wrap to secure of spills. Batteries should . Store and handle only and heat. Keep away from metallic object whether or not being charged. Shut-off pr	t circuits. e items for ts could ower to
Handling: Unless inv which may keep conta keep vent keep vent keep away shipping. Storege: Store batte also be sto in areas wi bridge the Charging: There is a chargers w	Consult state environmental agency and/or federal EP/ DLING AND STORAGE volved in recycling operations, do not breach the casing or y allow electrolyte leakage. There may be increasing risk of ainers tightly closed when not in use. If battery case is be caps on and cover terminals to prevent short circuits. Play y from combustible materials, organic chemicals, reducing eries in cool, dry, well-ventilated areas with impervious su red under roof for protection against adverse weather con ith adequate water supply and spill control. Avoid damag terminals on a battery and create a dangerous short-circuit possible risk of electric shock from charging equipment a	empty the contents of f f electric shock from st oken, avoid contact wit ce cardboard between I substances, metals, str rfaces and adequate co flictions. Separate from e to containers. Keep a t. and from strings of serie onnections. Batteries b	ndance with local, stat he battery. Handle care rings of connected batt internal components. ayers of stacked autom ong oxidizers and wate rtainment in the event incompatible materials way from fire, sparks a s connected batteries, eing charged will gene	efully and avoid tipping, eries. otive batteries to avoid damage and shor rr. Use banding or stretch wrap to secur of spills. Batteries should . Store and handle only nd heat. Keep away from metallic object whether or not being charged. Shut-off po rate and release flammable hydrogen gas	t circuits. e items for ts could ower to

Safety Data Sheet for Sulfuric Acid

CHAWKEK 🕼	HAWKER
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SAFETY DATA SHEET

Form #: SUS 85.9020H Revised: AA (06-16-16) Supersedes: 05/14/2015 ECO #: 1001735

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION						
Exposure Limits (mg/m3) Not	e: N.E.= Not Established					
INGREDIENTS	OSHA PEL	ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
(Chemical/Common Names)						
Lead and Lead Compounds						
(inorganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)
Antimony	0.5	0.05	0.5	0.5	0.5	0.15 (b)
Arsenic	0.01	0.01	0.002	0.2	0.01	N.E
Calcium	N.E	N.E	N.E	N.E	N.E	N.E
Tin	2	2	2	2	2	N.E
Electrolyte (Sulfuric Acid)	1	0.2	1	1	0.2	0.05 (c)
Polypropylene	N.E	N.E	N.E	N.E	N.E	N.E
Polystyrene	N.E	N.E	N.E	N.E	N.E	N.E
Styrene Acrylonitrile	N.E	N.E	N.E	N.E	N.E.	N.E
Acrylonitrile Butadiene						
Styrene	N.E	N.E	N.E	N.E	N.E	N.E
Styrene Butadiene	N.E	N.E.	N.E	N.E	N.E.	N.E
Polyvinylchloride	NE	N.E	N.E	N.E	1	N.E
Polycarbonate, Hard Rubber, Polyethylene	NE	N.E	N.E	N.E	N.E	N.E
	NE	N.E	N.E	N.E	N.E.	N.E
Silicon Dioxide						
(Gel Batteries Only)	N.E	N.E	N.E	N.E	N.E	N.E
Sheet Molding Compound						
(Glass reinforced polyester)	NE	NE	N.E	N.E	N.E	NE
NOTES:						
(b) As inhalable aerosol						
(c) Thoracic fraction						
(c) Based on OEL;s Of Austria,	Belgium, Denmark, France, Netherla	ands, Switzerland, & U	J.K.			
Engineering Controls (Ventila						
Store and handle in	n well-ventilated area. If mechanical	ventilation is used, co	mponents must be acid	-resistant.		
Handle batteries ca	nationally to avoid spills. Make certa	in vent caps are on sec	urely. Avoid contact w	ith internal component	ts. Wear protective	
clothing, eye and f	ace protection when filling, charging	or handling batteries.	Do not allow metallic r	naterials to simultaneo	usly contact both the	
positive and negati	ve terminals of the batteries. Charge	the batteries in areas	with adequate ventilation	n. General dilution ve	ntilation is acceptable.	
Respiratory Protection (NIOS						
	er normal conditions. When concen	trations of sulfuric aci	f mist are known to exc	eed the PEL, use NIO	SH or MSHA-approved	
respiratory protecti						
Skin Protection:						
	amaged, use rubber or plastic acid-re	sistant eloues with all	ow-length gountlet ack	Aresistant annual cloth	ing and boots	
	analysis, use rubber or pushe acid-re	sussiant groves with ele	ow-sengen gaunder, act	a resistant apron, ciou	and tracks.	
Eye Protection: If homen care is de	unand use chamical excelor or for	e chield				
	amaged, use chemical goggles or fac	e snieki.				
Other Protection:						
	furic acid is handled in concentration	-			-	
	er supply. Acid-resistant apron. Un			car acid-resistant cloth	ing and boots.	
	mended when adding water or electro	olyte to batteries, wash	hands after handling.			
IX. PHYSICAL AND CHEMI	CAL PROPERTIES					
Properties Listed Below are fo	r Electrolyte:					
Boiling Point:		203 - 240° F	Specific Gravity (H2	O = 1):	1.215 to 1.350	
Melting Point:		N/A	Vapor Pressure (mm	Hg):	10	
Solubility in Wate		100%	Vapor Density (AIR		Greater than 1	
	: (Butyl Acetate = 1)	Less than 1	% Volatile by Weigh		N/A	
L'apor actour Raite				-		
	pH:	~1 to 2	Flash Point:		Below room temperature	e (as hydrogen gas)
LEL (Lower Expl	osive Limit)	4.1% (Hydrogen)	UEL (Upper Explosi-	ve Limit)	74.2% (Hydrogen)	
		Manufactured article;	no apparent odor			
Appearance and (UNDER!		iquid with a sharp, pene	stating aungent of or		
		and a subsyste is a cicili i	spine with a simp, pen	country, pungent odor.		

©HAW	KER SAFETY DATA SHEET	Form #: SDS 853020H Revised: AA (06-16-16) Supersedes: 05/14/2015 ECO #: 1001735
X. STABILITY AND RE	ACTIVITY	
itability: Stable X	Unstable	
This product is stable und	er normal conditions at ambient temperature	
Conditions To Avoid: Pro	longed overcharge; sources of ignition	
Incompatibility: (Materi		
	Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing age	
metals, sulfur	trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammab	ile .
hydrogen gas.		
	nds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydroge	n
and reducing	igents.	
	ounds: strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsin	e.
Hazardous Decomposition		
	Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.	
	nds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nasce	ant
	generate highly toxic arsine gas.	
Hazardous Polymerizatio	<u>n:</u>	
Will not occu		
XI. TOXICOLOGICAL I	NFORMATION	
Routes of Entry:		
	Harmful by all routes of entry.	
	nds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, va	ipor
	resence of nascent hydrogen may generate highly toxic arsine gas.	
Inhalation:		
	Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.	
	nds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.	
Ingestion:		
	May cause severe irritation of mouth, throat, esophagus and stomach.	
Lead Compou	nds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to syst	temic
	ust be treated by a physician.	
Skin Contact:		
	Severe irritation, burns and ulceration.	
	nds: Not absorbed through the skin.	
	ounds: Contact may cause dermatitis and skin hyper pigmentation.	
Eye Contact:		
	Severe irritation , burns, cornea damage, and blindness.	
Lead Compon	ents: May cause eye irritation.	
Effects of Overexposure -		
Sulfuric Acid	Severe skin irritation, damage to cornea, upper respiratory irritation.	
Lead Compou	nds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep	
disturbances a	nd irritability.	
Effects of Overexposure -	Chronics	
Sulfuric Acid	Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.	
Lead Compou	nds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and	
females. Repe	ated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report ab	normal
	locities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system	
	y and damage to the blood-forming (hematopoietic) tissues.	
Carcinogenicity;		
	The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" a	sa
	togen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric	
	contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of	of the
	as overcharging, may result in the generation of sulfuric acid mist,	
	as overenarging, may result in the generation of sandric acti finst. nds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 19.	10.1200
	his is approximately equivalent to GHS Category 1B. <u>Proof of carcinogenicity in humans is lacking at present.</u>	abile in
	nic is listed by IARC as a Group 1 - carcinogenic to humans. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F,	this is
	equivalent to GHS Category 1A.	
	rally Aggravated by Exposure:	
	to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggra	ivate
	as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.	

	Form #: SDS 853020H
A SAFETY DATA SHEET	Revised: AA (06-16-16)
CHAWKER SAFETY DATA SHEET	Supersedes: 03/14/2013
	ECO #: 1001735
Acute Toxicity:	
Inhalation LD50:	
Electrolyte: LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3	
Elemental Lead: Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion)	
Elemental Arsenic: No data	
Oral LD50:	
Electrolyte: rat: 2140 mg/kg	
Elemental Lead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)	
Elemental Arsenic: LD50 mouse: 145 mg/kg	
Elemental Antimony; LD50 rat: 100 mg/kg	
Additional Health Data:	
All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion.	
Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8.	
Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the	
worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of	
tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated area	
never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated i children and their environment.	Irom
Construction and MICH CHVIPARINGER.	
The 19th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction.	
Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.	
XII. ECOLOGICAL INFORMATION	
Environmental Fate:	
Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments	is slow.
Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain.	
Most studies include lead compounds and not elemental lead.	
Environmental Toxicity: Aquatic Toxicity:	
Sulfuric acid: 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L	
96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L Lead: 48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion	
Arsenic: 24 hr LC50, freshwater fish (Carrassisus auratus) >5000 g/L.	
Additional Information:	
No known effects on stratospheric ozone depletion.	
 Volatile organic compounds: 0% (by Volume) 	
Water Endangering Class (WGK): NA	
XIII. DISPOSAL CONSIDERATIONS (UNITED STATES)	
Spent batteries: Send to secondary lead smelter for recycling. Spent lead-acid batteries are not regulated as hazardous waste when the requirements of	
40 CFR Section 266.80 are met. This should be managed in accordance with approved local, state and federal requirements. Consult state environmental	
agency and/or federal EPA.	
Electrolyte: Place neutralized slurry into sealed containers and handle as applicable with state and federal regulations. Large water-diluted spills, after	
Fine traditations sharry into science commander in an appreciate with state and recertain regulations. Large water-annuals, mere neutralization and testing, should be managed in accordance with approved local, state and federal requirements. Consult state environmental	
agency and/or federal EPA.	
Following back, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.	
XIV. TRANSPORT INFORMATION	
U.S. DOT:	
The transportation of wet and moist charged (moist active) batteries within the continental United States is regulated by the U.S. DOT	
through the Code of Federal Regulations, Title 49 (49CFR). These regulations classify these types of batteries as a hazardous material.	
Refer to CFR 49, 173.159 for more details pertaining to the transportation of wet and moist batteries.	
The shipping information is as follows:	
Proper Shipping Name: Batteries, wet, filled with acid Packing Group: N/A	
Hazardous Class: 8 Label/Placard Required: Corrosive	
UN Identification: UN2794 Contract your Humber concentration for additional information manufilm the classification of batteries	
Contact your Hawker representative for additional information regarding the classification of batteries.	
49 CFR 173.159(e) specifies that when transported by highway or rail, electric storage batteries containing electrolyte or corrosive battery fluid are not subjec	tto
49 CPR 175.159(e) specifies that when transported by ingroway or fail, electric storage butteries containing electrosyte or corrosive battery mad are not subject any other requirements of this subchapter, if all of the following are met:	
(1) No other hazardous materials may be transported in the same vehicle;	
(1) two outer managements may be transported in the same vertices, (2) The batteries must be loaded or braced so as to prevent damage and short circuits in transit;	
(3) Any other material loaded in the same vehicle must be blocked, braced, or otherwise secured to prevent contact with or damage to the batteri	es; and
(4) The transport vehicle may not carry material shipped by any person other than the shipper of the batteries.	
If any of the above-referenced requirements are not met, the batteries must be shipped as fully-regulated Class 8 Corrosive hazardous materials.	

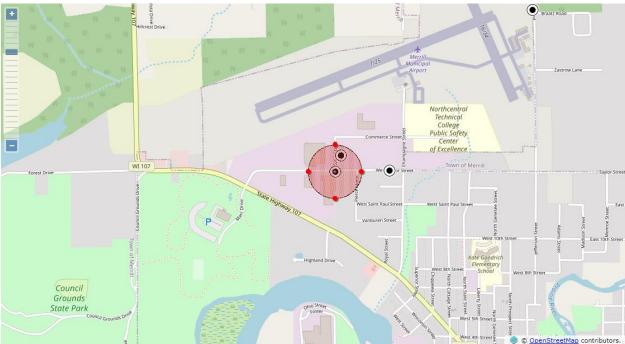
@HAWKE F	SA	FETY DATA SHEET		Form #: SDS 853020H Revised: AA (06-16-16) Supersedes: 05/14/2015 ECO #: 1001735			
ATA Dangerous Goods Regulations I	GR:						
(IATA). These regulations	also classify these types of		egulated by the International Air Transport Asso ial. The batteries must be packed according to	ciation			
IATA Packing Instruction 8	IATA Packing Instruction 870.						
The shipping information is							
	hipping Name: Batteries,	wet, filled with acid	Packing Group: N/A				
	is Class: 8		Label/Placard Required: Corros	ive			
UN Iden	ification: UN2794						
	entative for additional info	ormation regarding the classifie	ation of batteries.				
4DG:							
			egulated by the International Maritime Dangerou				
			dous material. The batteries must be packed acc	ording to			
IMDG code pages 8120 and		ing Instruction P801					
The shipping information is							
	hipping Name: Batteries,	wet, filled with acid	Packing Group: N/A				
	is Class: 8		Label/Placard Required: Corros	ive			
UN Iden	ification: UN2794						
		ormation regarding the classific	ation of batteries.				
V. REGULATORY INFORMATION							
NITED STATES:							
PA SARA Title III:							
ection 302 EPCRA Extremely Hazardo							
			shold Planning Quantity (TPQ) of 1,000 lbs.				
			esent at one site (40 CFR 370.10). For more info				
		ry by battery type. Contact you	r Hawker representative for additional information	n.			
ection 304 CERCLA Hazardous Substa							
		cid under CERCLA (Superfund					
EPCRA (Emergency Planni ection 311/312 Hazard Categorization:	ng and Community Right	to Know Act) is 1,000 lbs. Stat	e and local reportable quantities for spilled sulfu	ic acid may vary.			
			10-1				
		or non-automotive batteries if si information consult 40 CFR 37	alfuric acid is present in quantities of 500 lbs or i	nore and/or if lead is			
ection 313 EPCRA Toxic Substances:	too tos or more. For more i	mornanon consurt 40 CPK 37	0.10 and 40 CPK 570.40.				
	tates: If a toxic chamical	is present in an article at a con-	ered facility, a person is not required to consider	the computity of the			
			old has been met under § 372.25, § 372.27, or §				
			plies whether the person received the article from				
			ity of the toxic chemical present in the article.	anomer person			
or the person produced the	increase. resources, uns exca	apuon appares only to use quan	ity of the total chemical present in the article.				
upplier Notification:							
	chemicals which may be	reportable under EPCRA Section	on 313 Toxic Chemical Release Inventory (Form	R) requirements			
			rmation is provided to enable you to complete th				
		- month me tene cont mo					
	Toxic Chemical	CAS Number	Approximate % by WL				
	Lead	7439-92-1	60				
	Electrolyte	7439-92-1	60				
(5.46)	ric Acid (H2SO4/H2O))	7664-93-9	10 - 30				
(Suite							
	* Antimony	7440-36-0	2				
	* Arsenic	7440-38-2	0.2				
	Tin	7440-31-5	0.2				
See 40 CRG Part 370 for m	ore details.						
If you distribute this produc of each calendar year.	If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year.						
The Section 313 supplier n	The Section 313 supplier notification requirement does not apply to batteries, which are "consumer products".						
		ker representative for additional	-				

	HAWKER SAFETY DA	TA SHEET	Revised:	DS 853020H AA (06-16-16) : 05/14/2015 1001735			
TSCA:							
	TSCA Section 8b - Inventory Status: All chemicals comprising this	product are either exempt or listed on the TSCA Inventory.					
	TSCA Section 12b (40 CFR Part 707.60(b)) No notice of export will be required for articles, except PCB articles, unless the Agency so requires in the context of individual section 5, 6, or 7 actions.						
	TSCA Section 13 (40 CFR Part 707.20): No import certification reg	auired (EPA 305-B-99-001, June 1999, Introduction to the					
	Chemical Import Requirements of the Toxic Substances Control Act						
RCRA:							
	Spent Lead Acid Batteries are subject to streamlined handling require	rements when managed in compliance with 40 CFR section 266.80 or 40 CI	FR part 273.				
	Waste sulfuric acid is a characteristic hazardous waste; EPA hazardo	ous waste number D002 (corrosivity) and D008 (lead).					
CAA:							
	Hawker supports preventative actions concerning ozone depletion in	the atmosphere due to emissions of CFC's and other ozone depleting					
	chemicals (ODC's), defined by the USEPA as Class I substances. Pt	ursuant to Section 611of the Clean Air Act Amendments (CAAA)					
	of 1990, finalized on January 19, 1993, Hawker established a policy	to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.					
STATE RE	GULATIONS (US):						
	Proposition 65:						
	Warning: Battery posts, terminals and related accessories contain le	ad and lead compounds, chemicals known to the State of California to cause	e				
	cancer and reproductive harm. Batteries also contain other chemical	Is known to the State of California to cause cancer. Wash hands after handl	ing.				
INTERNA	TIONAL REGULATIONS:						
	Distribution into Quebec to follow Canadian Controlled Product Rep	gulations (CPR) 24(1) and 24(2).					
	Distribution into the EU to follow applicable Directives to the Use, I	Import/Export of the product as-sold.					
XVI. OTH	IER INFORMATION						
Revised:	AA (06-16-16)						
NFPA Haz	ard Rating for Sulfuric Acid:						
	Flammability (Red) = 0	Reactivity (Yellow) = 2					
	Health (Blue) = 3	Sulfuric acid is water-reactive if concentrated.					
DISCLAIM	IER						
	Data Sheet is created by the manufacturer to comply with the requirer	ments of 29 CFR 1910.1200. To the extent allowed by law,					
		ding users of this product, including, but not limited to, consequential or					
	ges, arising out of the use of, or reliance on, this Safety Data Sheet.						

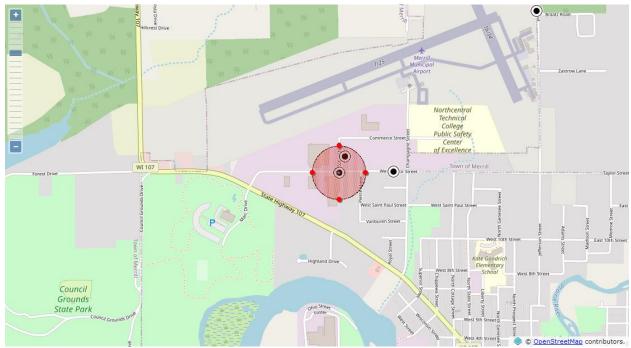
Attachment E

Vulnerability Zone Maps for Sulfuric Acid

A. Worst Case Scenario



B. Re-evaluation Scenario







EMERGENCY MANAGEMENT



2023 Off Site Plan: Mitchell Metal Products

Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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I. Facility Information

A. Mitchell Metal Products

- 1. Address: 905 South State Street, PO Box 207, Merrill, WI 54452
- 2. Phone: (715) 536-7176
- 3. Facility ID # (Assigned by WEM): 201888

II.Facility Emergency Contacts

A. Tier II Contact:

- 1. Name: Matt Eder
- 2. Position: Chief Operating Officer
- 3. Office Phone: (715) 536-7176 ext. 241
- 4. Emergency Phone: (715) 297-5483
- 5. Email: meder@mitchellmetalproducts.com

B. Tier II Emergency Coordinator:

- 1. Name: James Kelly
- 2. Position: EHS Specialist
- 3. Emergency Phone(715) 536-7176 ext. 237
- 4. Emergency Phone: (520) 313-0373
- 5. Email: jkelly@mitchellmetalproducts.com

C. Tier II Emergency Contact

- 1. Name: Jeff Schellhorn
- 2. Position: Director of Quality
- 3. Office Phone: (715) 536-7176 ext. 242
- 4. Emergency Phone: (715) 218-4749
- 5. Email: jschellhorn@mitchmetalproducts.com

III. Extremely Hazardous Substances (EHS)

A. EHS Chemicals OVER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
7664-93-9	Sulfuric Acid	2,078	2,078	< 0.1 miles

IV. Primary Emergency Responders

A. Lincoln County Sheriff's Office

1. Phone: 911 or (715) 563-6272

B. Lincoln County Emergency Communications Center

1. Phone: 911 or (715) 563-6272

C. Lincoln County Emergency Management

1. Phone: (715) 218-0128

D. Merrill Fire Department

1. Phone: 911 or (715) 536-2233

E. Merrill Police Department

1. Phone: 911 or (715) 536-8311

V. Support Available at Facility

A. Chemical Emergency Monitoring Equipment:

1. None

B. Personal Protective Equipment:

1. None

C. Other Equipment or Supplies:

1. None

D. Outside Resources Available:

- 1. Lincoln County Emergency Management
 - a) Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

- 2. Chemtrec: (800) 424-9300
 - a) Unknown response time
- 3. National Response Center: (800) 424-8802
 - a) Unknown response time
- 4. REI—Spill & Response Recovery: (800) 734-7745
 - a) Unknown response time

VI. General information and Assumptions (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA) Technical Guidance for Hazard Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of an EHS occur.

A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the hazard analysis summary.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO*fm* cannot compute zones greater than 10 miles nor less than 0.1 miles. Thus, results that fall into these situations will be notes as "> 10 miles" or "< 0.1 miles".

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

VII. Hazard Analysis Summary

Mitchell Metal Products is a metal manufacturing facility. They manufacture a wide variety of metal parts from custom pieces to metal Christmas wreaths, utilizing several techniques such as stamping, forming, and plating. Operations include metal forming, robotic welding, resistance welding, and staining.

A. Greatest Potential for Release

- 1. The greatest potential for release would be an accident involving sulfuric acid, which is the only EHS on-site, when being handled.
- 2. It is unlikely that a large sulfuric acid release would occur and it is unlikely that a release would have off-site consequences. Spills would normally be contained inside the building except perhaps in a fire situation.

B. Vulnerability Zones (by chemical)

Sulfuric Acid (Lead Battery Acid): CAS #7664-93-9					
Amount Released:	2,078 lbs.				
Concentration:	100%				
Physical State:	Lie	quid (Ambient)			
Diked Area:	No				
Level of Concern (LOC):	0.008 gm/m ³				
LOC Type:	Greenbook LOC				
Worst Case Scenario			Re-Evaluation Scenario		
Duration:		10 minutes	Duration	10 minutes	
Wind Speed:		3.4 mph	Wind Speed:	11.9 mph	
Ground Roughness:		Rural	Ground Roughness:	Urban	
Atmospheric Stability Class:		F	Atmospheric Stability Class:	D	
Risk:		Low	Risk:	Low	
Consequences:		Low	Consequences:	Low	
Overall Risk:		Low	Overall Risk:	Low	
Threat Zone Radius:		< 0.1 miles	Threat Zone Radius:	< 0.1 miles	

C. Estimation of Population Affected

- 1. Sulfuric Acid
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would potentially be any of the eighty-four (84) employees and no other persons or special facilities.
 - b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance would potentially be any of the eighty-four (84) employees and no other persons or special facilities.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

D. Critical Infrastructure

1. None

E. Hospital

1. None

F. Nursing Homes/Assisted Living Facilities

1. None

G. Schools

1. None

H. Child Care/Day Care

1. None

VIII. Population Protection

The determination to shelter in-place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter-in-place. Preferred areas for protective sheltering would be interior hallways, rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.

IX. Special Considerations

A. None

X. Distribution List

- Mitchell Metal Products
- Merrill Fire Department
- Wisconsin Emergency Management Northeast Regional Office
- Oneida County Sheriff Office Hazardous Materials Response Team
- Wausau Wisconsin Hazardous Response Team
- Marathon County Emergency Management

XI. Supporting Documentation

A. Attachments

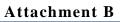
- 1. Attachment A, Record of Change and Review
- 2. Attachment B, Facility Layout and Site Information
- 3. Attachment C, Transportation Route Map
- 4. Attachment D, Safety Data Sheet for Sulfuric Acid
- 5. Attachment F, Vulnerability Zone Map for Sulfuric Acid

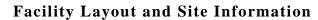
Attachment A

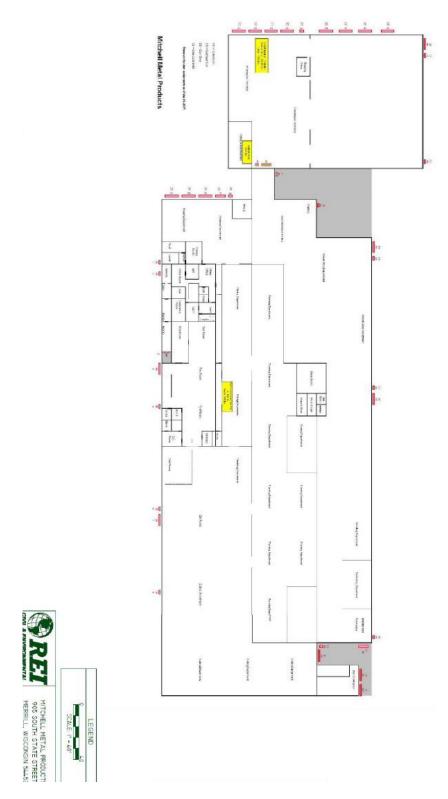
Record of Change/ Review /Signature

Date	Contributor	Description of Change	Page Number(s)
12-5-2023	T. Verhasselt and J. Kelly	Authored plan and reviewed with Mitchell Metal Products for accuracy. Tier II Contact was changed to M. Eder.	Pgs. 1-21

Please see EPCRA Hazardous Materials Off-Site Plan Transmittal Form for approval and signatures.







Attachment C

Transportation Route Map



Attachment D

Safety Data Sheet for Sulfuric Acid

SAFETY DATA SHEET

HYDRITE #1066 Product ID: wt1066 Revised: 06-12-2014 Replaces: 09-01-2011

1. IDENTIFICATION

 Product Name:
 HYDRITE #1066

 Synonyms:
 Sulfuric Acid; Oil o

 CAS Number:
 MIXTURE

 Recommended Use:
 No data available.

 Restrictions on Use:
 No data available.

HYDRITE #1066 Sulfuric Acid; Oil of Vitriol; Hydrogen Sulfate MIXTURE No data available. No data available.

Hydrite Chemical Co. 300 N. Patrick Blvd. Brookfield, WI 53008-0948 (262) 792-1450 EMERGENCY RESPONSE NUMBERS: 24 Hour Emergency #: (414) 277-1311 CHEMTREC Emergency #: (800) 424-9300

2. HAZARD(S) IDENTIFICATION



Signal Word:	Danger
GHS Classification:	Substance or mixture corrosive to metals Category 1 Skin Corrosion/Irritation Category 1A Serious Eye Damage/Eye Irritation Category 1 Carcinogenicity Category 1A Acute Toxicity - Inhalation Vapour Category 2 Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2 Acute Toxicity - Inhalation Dust / Mist Category 3
Hazard Statements:	May be corrosive to metals. Causes severe skin burns and eye damage. Fatal if inhaled. Toxic if inhaled. May cause cancer. May cause damage to organs (teeth, respiratory system) through prolonged or repeated exposure (by inhalation).
Precautionary Statem	ents:
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear gloves, eye and face protection and protective clothing. Wear respiratory protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

Safety Data Sheet for Sulfuric Acid

HYDRITE #1066 Product ID: wt1066	
	skin with water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Specific treatment is urgent (see First Aid on SDS or on this label). Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store in a secure manner. Store in corrosive resistant container with a resistant inner liner.
Disposal:	Dispose of in accordance with local, regional and international regulations.
Hazards Not Otherw	ise Classified: None known.
Percentage of Comp Dermal:	93.2 %

3. COMPOSITION/INFORMATION ON INGREDIENTS		
Component	CAS Number	<u>% by Wt.</u>
Sulfuric Acid	7664-93-9	93.19 %

4. FIRST-AID MEASURES

Eye Contact: If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

Skin Contact: If on skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. Discard contaminated leather articles such as shoes and belt. Do not apply oils or ointments unless ordered by the physician.

Inhalation: If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion: If swallowed: If fully conscious, drink a quart of water. DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY. If unconscious or in convulsions, take immediately to a hospital or a physician. NEVER induce vomiting or give anything by mouth to an unconscious victim. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Note to Physicians:

This product contains materials that may cause severe pneumonitis if aspirated. If ingestion has occurred less than 2 hours earlier, carry out careful gastric lavage; use endotracheal cuff if available, to prevent aspiration. Observe patient for respiratory difficulty from aspiration pneumonitis. Give artifical resuscitation and appropriate chemotherapy if respiration is depressed. Following exposure the patient should be kept under medical review for at least 48 hours as delayed pneumonitis may occur. DO NOT attempt to neutralize the acid with weak bases since the reaction will produce heat that may extend the corrosive injury.

Most Important Symptoms/Effects:

Eye Contact: CORROSIVE-Causes severe irritation and burns. May cause: blurred vision. redness. pain. conjunctivitis. ulcerations. tissue destruction. permanent eye damage. blindness.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Concentrated solutions may cause: severe burns. severe necrosis. permanent skin damage. Prolonged and repeated exposure to dilute solutions may cause irritation, redness, pain and drying and cracking of the skin.

Safety Data Sheet for Sulfuric Acid

HYDRITE #1066 Product ID: wt1066

Skin Absorption: No data available.

Inhalation: CORROSIVE-Causes severe irritation and burns. Vapors or mists may damage: mucous membranes. respiratory tract. Vapors or mists may cause: coughing. sore throat. shortness of breath. labored breathing. choking. bronchospasms. chemical pneumonitis. pulmonary edema. death. Effects may be delayed. Chronic exposure may cause: dental erosions. discoloration of teeth. bronchitis. bronchial emphysema.

Ingestion: CORROSIVE-Causes severe irritation and burns. May cause damage to the: mouth. throat. esophagus. stomach. gastrointestinal tract. May cause: pain. vomiting. diarrhea. bleeding. labored breathing. burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection. death. Effects may be delayed. Aspiration into the lungs may cause chemical pneumonia and lung damage.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Carbon dioxide. Dry chemical. Foam.

Fire Fighting Methods: Evacuate area of unprotected personnel. Wear protective clothing including NIOSHapproved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Do not get water inside containers. Product generates heat upon addition of water, with possible spattering. Neutralize run-off with Lime, Soda Ash, etc., to prevent corrosion of metals and formation of Hydrogen gas. Run-off from fire control may cause pollution.

Fire and Explosion Hazards: Product may react with some metals (ex.: Aluminum, Zinc, Tin, etc.) to release flammable hydrogen gas. Will react with organic materials with evolution of heat and sulfur dioxide. Concentrated acid is a strong oxidizing agent. May cause ignition of combustible materials on contact with generation of sulfur dioxide fumes.

Hazardous Combustion Products: Sulfur oxides.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean-Up Procedures: CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Flush remaining area with water and neutralize with Soda Ash or Lime and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Use non-sparking tools.

Storage: CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Do not freeze. Highly corrosive to most metals with evolution of hydrogen gas. Explosive/flammable concentrations of hydrogen gas may accumulate inside metal containers. Elevated temperatures will increase the corrosion rate of most metals. See Section 10 for incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines: Component Sulfuric Acid

Limits 1 mg/m3 TWA

ACGIH Exposure Guidelines:

Safety Data Sheet for Sulfuric Acid

HYDRITE #1066 Product ID: wt1066		
Component	Limits	
Sulfuric Acid	0.2 mg/m3 TWA (thoracic fraction)	

Engineering Controls: Local exhaust ventilation, process enclosures, or other engineering controls are required when handling or using this product to avoid overexposure. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Eye/Face Protection: Wear chemical safety goggles and a full face shield while handling this product. Do not wear contact lenses.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Acid-proof. Chemical-resistant. Impervious.

Respiratory Protection: Respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If exposure limits are exceeded, wear: NIOSH-Approved air-purifying respirator with: Acid gas cartridge and Dust/mist filter. NIOSH-Approved positive pressure supplied air respirator. NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower. Rubber apron. Chemical safety shoes. Rubber boots. Protective clothing. Full-rubber acid suit.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid. Color: Clear. Colorless to amber. Odor: Acrid Odor Threshold: N.D. pH: < 2.00 (as is)</p> Freezing Point (deg. F): ~ -21 Melting Point (deg. F): N.A. Initial Boiling Point or Boiling Range: ~ 529 °F Flash Point: N.A. Flash Point Method: N.A. Evaporation Rate (nBuAc = 1): < 1 Flammability (solid, gas): N.D. Lower Explosion Limit: N.A. Upper Explosion Limit: N.A. Vapor Pressure (mm Hg): 0.0016 @102F Vapor Density (air=1): 3.4 (H2SO4) Specific Gravity or Relative Density: 1.835 @ 25C Solubility in Water: Complete Partition Coefficient (n-octanol/water): N.D. Autoignition Temperature: No Data Decomposition Temperature: N.D. Viscosity: N.D. % Volatile (wt%): N.D. VOC (wt%): 0 VOC (lbs/gal): 0 Fire Point: N.D.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Safety Data Sheet for Sulfuric Acid

HYDRITE #1066 Product ID: wt1066

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions. May react with certain metals to produce flammable hydrogen gas. Hazardous gases are evolved on contact with chemicals such as cyanides, sulfides, carbides, etc.

Conditions to Avoid: Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Contact with organic materials may cause fire and explosions. Contact with water may cause violent reaction with evolution of heat. To dilute: Add product slowly to lukewarm water; not water to product.

Incompatible Materials: Metals. Water. Alkalies. Strong oxidizing agents. Reducing agents. Carbonates. Cyanides. Sulfides. Carbides. Chlorates. Fulminates. Nitrates. Powdered metals. Organic materials. Combustible materials. Nitrogen compounds. Picrates. Bases. Halogens. Alkali metals. and many other reactive substances.

Hazardous Decomposition Products: Sulfur oxides. Sulfuric acid vapors. Hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Component Sulfuric Acid	<u>Oral LD50</u> Rat: 2140 mg/kg	Dermal LD50 No Data	Inhalation LC50 2H Rat: 510.0 mg/m3
Acute Toxicity Estimation	te (ATE):		
Inhalation Vapor:	0.5473 mg/L		

Inhalation Dust/Mist: 0.5473 mg/L

Routes of Exposure: Eyes. Ingestion. Inhalation. Skin.

Eye Contact: CORROSIVE-Causes severe irritation and burns. May cause: blurred vision. redness. pain. conjunctivitis. ulcerations. tissue destruction. permanent eye damage. blindness.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Concentrated solutions may cause: severe burns. severe necrosis. permanent skin damage. Prolonged and repeated exposure to dilute solutions may cause irritation, redness, pain and drying and cracking of the skin.

Skin Absorption: No data available.

Inhalation: CORROSIVE-Causes severe irritation and burns. Vapors or mists may damage: mucous membranes. respiratory tract. Vapors or mists may cause: coughing. sore throat. shortness of breath. labored breathing. choking. bronchospasms. chemical pneumonitis. pulmonary edema. death. Effects may be delayed. Chronic exposure may cause: dental erosions. discoloration of teeth. bronchitis. bronchial emphysema.

Ingestion: CORROSIVE-Causes severe irritation and burns. May cause damage to the: mouth. throat. esophagus. stomach. gastrointestinal tract. May cause: pain. vomiting. diarrhea. bleeding. labored breathing. burns or perforation of the gastrointestinal tract leading to ulceration and secondary infection. death. Effects may be delayed. Aspiration into the lungs may cause chemical pneumonia and lung damage.

Medical Conditions Aggravated by Exposure to Product: Eye disorders. Skin disorders. Respiratory system disorders.

Other: Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow skin contact or ingestion. Circulatory shock is often the immediate cause of death. The International Agency for Research on Cancer (IARC) has concluded that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to man, causing cancer of the larynx (the voice box). Although no direct link has been established between exposure to sulfuric acid itself, and cancer in man, exposure to any mist or aerosol during the use of this product should be avoided.

Cancer Information:

This product contains 0.1% or more of the following chemicals listed by NTP, IARC or OSHA as known or possible carcinogens:

Sulfuric acid mist

12. ECOLOGICAL INFORMATION

Safety Data Sheet for Sulfuric Acid

HYDRITE #1066 Product ID: wt1066

Ecotoxicological Information: No data available.

Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D002

Disposal Method: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):

Identification Number:	UN1830
Proper Shipping Name:	SULFURIC ACID
Hazard Class:	8
Packing Group:	I
Label Required:	CORROSIVE
Reportable Quantity (RQ):	1000# (Sulfuric Acid)

15. REGULATORY INFORMATION

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Sectio Immediate (Acute) Yes	s: <u>Fire Hazard</u> No	Pres	sure Rele No	<u>ase</u>	React Yes			
Regulated Compone	ents:	<u>CAS</u>	CERCLA	SARA	<u>SARA</u>	U.S.	WL	Prop
Component		Number	RQ	EHS	<u>313</u>	HAP	HAP	65
Sulfuric Acid		7664-93-9	Yes	Yes	Yes*	No	Yes	Yes

Note: * Sulfuric acid appears on the Section 313 List. However, the listing only applies to the aerosol forms of sulfuric acid.

16. OTHER INFORMATION

Hazard Rating S	System
Health:	3*
Flammability:	0
Reactivity:	2
* = Chronic Heal	th Hazard

NFPA Rating System

Health: 3 Flammability: 0 Reactivity: 2 Special Hazard: W

MSDS Abbreviations N.A. = Not Applicable N.D. = Not Determined HAP = Hazardous Air Pollutant VOC = Volatile Organic Compound

Safety Data Sheet for Sulfuric Acid

HYDRITE #1066 Product ID: wt1066

C = Ceiling Limit N.E./Not Estab. = Not Established

MSDS Prepared by: NAO

Reason for Revision: New format. Changes made throughout the SDS.

Revised: 06-12-2014 Replaces: 09-01-2011

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

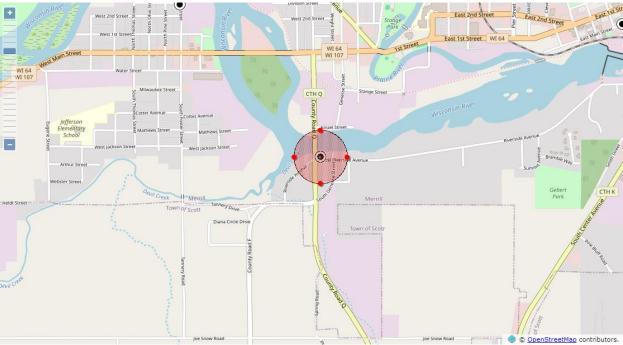




+ West 2nd Street East 2nd t 2nd St East 1st Street 1st Street WI 64 WI 107 WI 64 WI 107 CTH Q -۲ Arthur 1 Gebert Park CTH K eldt-Stre Town of Scotz © OpenStreetMap contributors

A. Worst Case Scenario





Lincoln County: Local Emergency Planning Committee (LEPC)



EMERGENCY MANAGEMENT



2023 Off Site Plan: Northern Wire LLC.

Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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I. Facility Information

A. Northern Wire LLC.

- 1. Address: 1100 West Taylor Street, Merrill, WI 54452
- 2. Phone: (715) 536-5329
- 3. Facility ID # (Assigned by WEM): 139083

II.Facility Emergency Contacts

A. Tier II Contact:

- 1. Name: Cory Arndt
- 2. Position: EHS Consultant
- 3. Office Phone: (715) 551-9503
- 4. Emergency Phone: (715) 551-9503
- 5. Email: carndt@ehs-mgt.com

B. Tier II Emergency Coordinator:

- 1. Name: Jacob Bartz
- 2. Position: Production Supervisor
- 3. Office Phone: (715) 539-5348
- 4. Emergency Phone: (715) 351-0218
- 5. Email: jbartz@elginfasteners.com

C. Tier II Emergency Contact:

- 1. Name: Jim Kaplinski
- 2. Position: Manager
- 3. Office Phone: (715) 539-5342
- 4. Emergency Phone: (715) 539-5342
- 5. Email: jkaplinski@eglinfasteners.com

III. Extremely Hazardous Substances (EHS)

A. EHS Chemicals OVER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
7664-93-9	Sulfuric Acid	1,710	273	< 0.1 miles

IV. Primary Emergency Responders

A. Lincoln County Sheriff's Office

1. Phone: 911 or (715) 563-6272

B. Lincoln County Emergency Communications Center

1. Phone: 911 or (715) 563-6272

C. Lincoln County Emergency Management

1. Phone: (715) 218-0128

D. Merrill Fire Department

1. Phone: 911 or (715) 536-2233

E. Merrill Police Department

1. Phone: 911 or (715) 536-8311

V. Support Available at Facility

A. Chemical Emergency Monitoring Equipment:

1. None

B. Personal Protective Equipment:

1. None

C. Other Equipment or Supplies:

1. None

D. Outside Resources Available:

- 1. Lincoln County Emergency Management
 - a) Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

- 2. Chemtrec: (800) 424-9300
 - a) Unknown response time
- 3. National Response Center: (800) 424-8802
 - a) Unknown response time
- 4. REI—Spill & Response Recovery: (800) 734-7745
 - a) Unknown response time

VI. General information and Assumptions (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA) Technical Guidance for Hazard Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of an EHS occur.

A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the hazard analysis summary.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO*fm* cannot compute zones greater than 10 miles nor less than 0.1 miles. Thus, results that fall into these situations will be notes as "> 10 miles" or "< 0.1 miles".

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

VII. Hazard Analysis Summary

A. Greatest Potential for Release

- 1. Sulfuric acid being the only extremely hazardous substance over TPQ and therefore poses the greatest potential for release.
- 2. It is unlikely that a large sulfuric acid release would occur and it is unlikely that a release would have off site consequences. Spills would be contained inside the building except perhaps in a fire situation.

B. Vulnerability Zones (by chemical)

Sulfuric Acid: CAS #7664-93-9					
Amount Released:	273 lbs.	273 lbs.			
Concentration:	100%	100%			
Physical State:	Liquid (Ambient				
Diked Area:	No				
Level of Concern (LOC):	0.008 gm/m ³				
LOC Type:	Greenbook LOC				
Worst Case Scenario	Worst Case Scenario Re-Evaluation Scenario				
Duration: 10 min		Duration	10 minutes		
Wind Speed:	3.4 mph	Wind Speed:	11.9 mph		
Ground Roughness:	Rural	Ground Roughness:	Urban		
Atmospheric Stability Clas	s: F	Atmospheric Stability Class:	D		
Risk:	Low	Risk:	Low		
Consequences:	Low	Consequences:	Low		
Overall Risk:	Low	Overall Risk:	Low		
Threat Zone Radius:	< 0.1 miles	Threat Zone Radius:	< 0.1 miles		

C. Estimation of Population Affected

- 1. Sulfuric Acid
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance has the potential to affect any of the ninety-eight (98) full-time employees and no other populations or facilities would be affected.
 - b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance has the potential to affect any of the ninety-eight (98) full-time employees and no other populations or facilities would be affected.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that no shelter, isolation, or evacuation would have to take place in conjunction with this extremely hazardous chemical.

D. Critical Infrastructure

a) No special facilities or general populations affected

VIII. Population Protection

The determination to shelter in-place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter-in-place. Preferred areas for protective sheltering would be interior hallways, rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.

IX. Special Considerations

A. None

X. Distribution List

- Northern Wire LLC.
- Tomahawk Fire Department
- Wisconsin Emergency Management Northeast Regional Office
- Oneida County Sheriff Office Hazardous Materials Response Team
- Wausau Wisconsin Hazardous Response Team
- Marathon County Emergency Management

XI. Supporting Documentation

A. Attachments

- 1. Attachment A, Record of Change and Review
- 2. Attachment B, Facility Layout and Site Information
- 3. Attachment C, Transportation Route Map
- 4. Attachment D, Safety Data Sheet for Sulfuric Acid
- 5. Attachment E, Vulnerability Zone Map for Sulfuric Acid

Attachment A

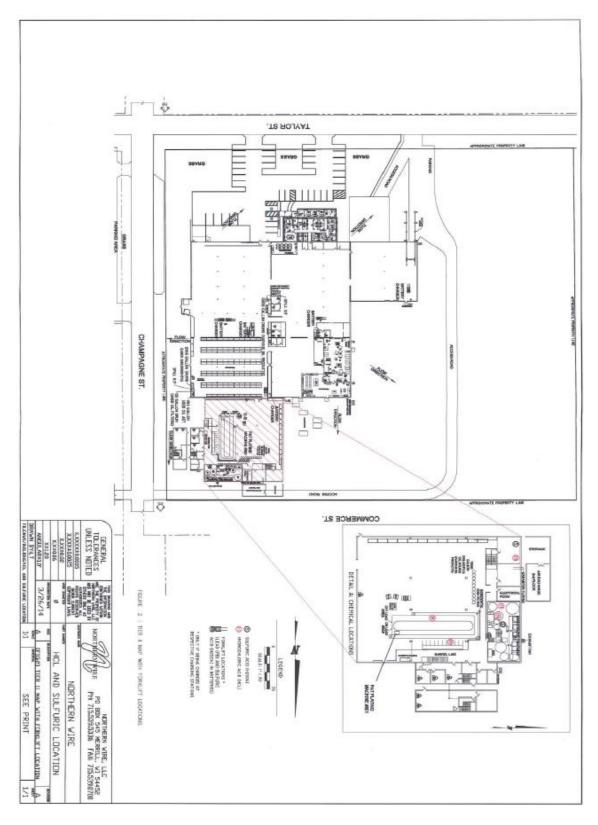
Record of Change/ Review /Signature

Date	Contributor	Description of Change	Page Number(s)
12-5-2023	T. Verhasselt and C. Arndt	Authored plan and reviewed with Northern Wire LLC for accuracy. Maximum daily amount and largest container figures were updated.	Pgs. 1-21

Please see EPCRA Hazardous Materials Off-Site Plan Transmittal Form for approval and signatures.

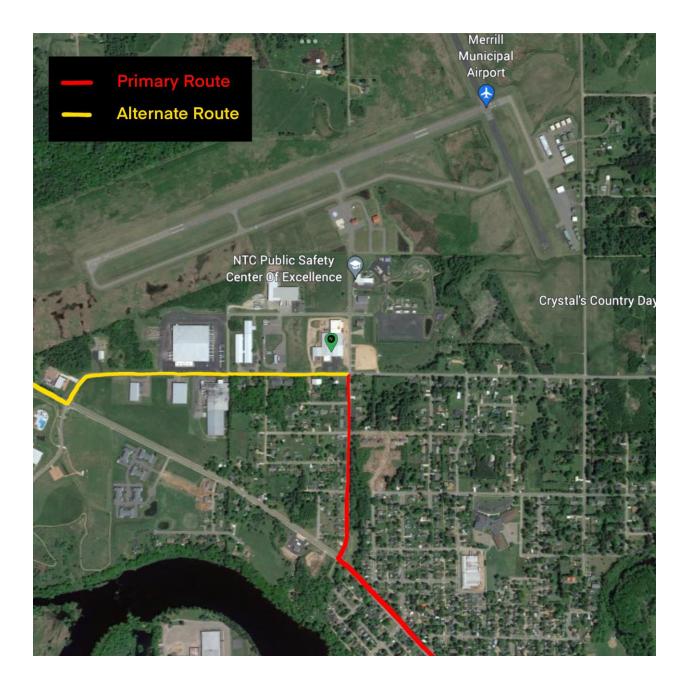
Attachment B

Facility Layout and Site Information



Attachment C

Transportation Route Map



Attachment D

EnerSys.	SAFETY DATA SHE	ет 🌏	HAWKER	Form #: SDS 853026 Revised: 05/14/15 Supersedes: NEW ECO #: 1001584
PRODUCT IDENTIFICATION				
Chemical Trade Name (as used on label): Aerospace and defense batteries manufactured using factor	n modified versions of		Chemical F Sealed Lead	amily/Classification: Dattery
Cyclon*, Genesis®, SBS, Hawker®, Armasafe Plus®, or I			Scaled Lead	isaticity
Synonyms:				
Sealed Lead Acid Battery, VRLA Battery		Telephone:		
			rgencies, contact EnerSys Energy	Products
Manufacturer's Name/Address:		Environmental, Health &	Safety Dept. at 660-429-2165	
inerSys Energy Products Inc. (formerly Hawker Energy Pr i17 N. Ridgeview Drive	*	24-Hour Emergency Re	enones Contact:	
Warrensburg, MO 64093-9301			C: 800-424-9300 CHEMTRE	INTL: 703-527-3877
I GHS HAZRDS IDENTFICATION				
HEALTH		ENVIRONMENTAL		PHYSICAL
Acute Toxicity		Aquatic Chronic 1	Ex	plosive Chemical, Division 1.3
Oral/Dermal/Inhalation) Category 4		Aquatic Acute 1		
kin Corrosion/Irritation Category 1A ye Damage Category 1				
Reproductive Category IA				
Carcinogenicity (lead compounds) Category 1B				
Carcinogenicity (acid mist) Category 1A				
Specific Target Organ Toxicity				
repeated exposure) Category 2				
GHS LABEL: HEALTH		ENVIRONMENTAL		PHYSICAL
HEALTH		ENVIRONMENTAL		PHISICAL
Jazard Statements DANGER! Causes severe skin burns and eye damage. Causes serious eye damage.	Wear protective gloves	handling. oke when using this prod /protective clothing, eye	protection/face protection.	
May damage fertility or the unborn child if ingested or	_	ume/gas/mist/vapors/spra	iy.	
nhaled.	Use only outdoors or in			
May cause cancer if ingested or inhaled.	Causes skin irritation,			
Causes damage to central nervous system, blood and			itation or severe burns. Avoid co	ntact with internal acid.
idneys through prolonged or repeated exposure.	Irritating to eyes, respin	ratory system, and skin.		
May form explosive air/gas mixture during charging.				
ixtremely flammable gas (hydrogen).				
ixplosive, fire, blast, or projection hazard. II. HAZARDOUS INGREDIENTS/IDENTIFY INFO	RMATION			
Components	CAS Number	Approximate % by		
		Weight		
norganic Lead Compound:	7439-92-1	45 - 60		
Lead Lead Dioxide	7439-92-1 1309-60-0	45 - 60		
Tin	7440-31-5	0.1 - 0.2		
Sulfuric Acid Electrolyte (Sulfuric Acid/Water)	7664-93-9	15 - 20		
Case Material:		5 - 10		
Polypropylene	9003-07-0			
Polystyrene Styrene Acrolonitrile	9003-53-6 9003-54-7			
Styrene Acrylonitrile Acrylonitrile Butadiene Styrene	9003-56-9			
Styrene Butadiene	9003-55-8			
Polyvinylchloride	9002-86-2			
Polycarbonate, Hard Rubber, Polyethylene	9002-88-4			
	25134-01-4			
Polyphenylene Oxide				
Polycarbonate/Polyester Alloy				
		1-2		

Ene	rsys.	SAFETY DATA SHEET	CHAWKER	Form #: SDS 853026 Revised: 05/14/15 Supersedes: NEW ECO #: 1001584
IV. FIRST	AID MEASURES			1001004
Inhalation:		ely. If breathing is difficult, give oxygen. Cons ose and lips; consult physician.	ult a physician	
Ingestion:	Sulfuric Acid: Give large quantities of water consult a physician. Lead: Consult physician immediately.	do not induce vomiting or aspiration into the le	ungs may occur and can cause permanent inju	ry or death;
Skin:		ater for at least 15 minutes; remove contaminat Vash contaminated clothing before reuse. Disca r.		
Eyes:	Sulfuric Acid and Lead: Flush immediately v Seek immediate medical attention if eyes hav	vith large amounts of water for at least 15 minut e been exposed directly to acid.	tes while lifting lids.	
V. FIRE F	IGHTING MEASURES			
Flash Point	z N/A	Flammable Limits: LEL = 4.1% (H	ydrogen Gas) UEL = 74.2% ((Hydrogen Gas)
	e Fighting Procedures:	al. Avoid breathing vapors. Use appropriate me e positive pressure, self-contained breathing ap		5
	×	ant clothing, gloves, face and eye protection. may still pose risk of electric shock even when	charging equipment is shut down.	
	sources of ignition away from batteries. Do r batteries. Follow manufacturer's instructions			
	AUTIONS FOR SAFE HANDLING AND U	SE		
Spill or Ler	neutralize spilled electrolyte with soda ash, so allow discharge of unneutralized acid to sewe	ills with dry sand, earth, and vermiculite. Do r dium bicarbonate, lime, etc. Wear acid-resista r. Acid must be managed in accordance with lo	nt clothing, boots, gloves, and face shield. Do	•
VII HANI	Consult state environmental agency and/or fe DLING AND STORAGE	deral EPA.		
Handling: Unless invo There may b Keep contai Keep vent c Keep away s shipping.	lved in recycling operations, do not breach the be increasing risk of electric shock from strings iners tightly closed when not in use. If battery aps on and cover terminals to prevent short cin		d automotive batteries to avoid damage and sl	
also be store in areas with could bridge	ed under roof for protection against adverse we	rvious surfaces and adequate containment in th ther conditions. Separate from incompatible n id damage to containers. Keep away from fire, ous short-circuit.	aterials. Store and handle only	ects which
chargers wh Charging sp	enever not in use and before detachment of any	ipment and from strings of series connected ba y circuit connections. Batteries being charged w us in position. Prohibit smoking and avoid creat arged.	ill generate and release flammable hydrogen g	

EnerSys. Power 768 Statistics		AFETY DATA SH	IEET (©HAWK	ER	Form #: SDS 853026 Revised: 05/14/15 Supersedes: NEW ECO #: 1001584
exposure Limits (mg/m3) Note: N	LE.= Not Established					
	,					
NGREDIENTS	OSHA PEL	ACGIH	US NIOSH	Ouebec PEV	Ontario OEL	EU OEL
Chemical/Common Names)	CONTRACTOR .	Accurr	Contractor	Quesce I LT	Online Oct.	LU ULL
ead and Lead Compounds						
norganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)
in	2	2	2	2	2	0.15 (b)
ulfuric Acid Electrolyte	1	0.2	1	1	0.2	0.05 (c)
alurre Acia Electrolyte	N.E	N.E	N.E	N.E	N.E	0.05 (c)
	N.E	N.E.	N.E.	NE	N.E	N.E N.E
olystyrene						
yrene Acrylonitrile	N.E	N.E	N.E	N.E	N.E	N.E
crylonitrile Butadiene	NE	NE	NE	NE	NE	NE
yrene Dutadiana	N.E N.E	N.E N.E			N.E N.E	N.E N.E
yrene Butadiene			N.E	N.E		
olyvinylchloride	N.E	N.E	N.E	N.E	1	N.E
olycarbonate, Hard						
abber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
olyphenylene Oxide	NE	N.E.	NE	N.E	NE	N.E
olycarbonate/Polyester Alloy						
abber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
bsorbent Glass Mat	NE	N.E	N.E	NE	NE	NE
	all-avantilated areas. If machanic	al wantilation is used o				
clothing, eye and face positive and negative t espiratory Protection (NIOSH/M None required under n respiratory protection.	ously to avoid spills. Make cer protection when filling, chargi terminals of the batteries. Char	tain vent caps are on se ng or handling batteries ge the batteries in areas	curely. Avoid contact . Do not allow metalli with adequate ventila	t with internal componen ic materials to simultaneo ation. General dilution ve	ously contact both the intilation is acceptabl	e.
Handle batteries cautic clothing, eye and face positive and negative t spiratory Protection (NIOSH/M None required under n respiratory protection. in Protection: If battery case is dama	ously to avoid spills. Make cer protection when filling, chargi terminals of the batteries. Char MSHA approved):	tain vent caps are on se ng or handling batteries ge the batteries in areas entrations of sulfuric ac	curely. Avoid contact bo not allow metalli with adequate ventilation with adequate ventilation of the second secon	t with internal componen ic materials to simultaneo ttion. General dilution ve exceed the PEL, use NIO	ously contact both the entilation is acceptable SH or MSHA-approv	e.
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Handle batteries cautic clothing, eye and face positive and negative t spiratory Protection (NIOSHI/N None required under n respiratory protection. in Protection: If battery case is dama ther Protection:	ously to avoid spills. Make cer protection when filling, chargi terminals of the batteries. Char MSHA approved): normal conditions. When conce- aged, use rubber or plastic acid- aged, use chemical goggles or fi	tain vent caps are on se ng or handling batteries ge the batteries in areas entrations of sulfuric ac resistant gloves with el ace shield.	curely. Avoid contact 5. Do not allow metalli with adequate ventila id mist are known to o bow-length gauntlet, a	t with internal componen ic materials to simultaneo ttion. General dilution ve exceed the PEL, use NIO	ously contact both the entilation is acceptable SH or MSHA-approv	e.
Handle batteries cautic clothing, eye and face positive and negative t espiratory Protection (NIOSH/M None required under n respiratory protection. din Protection: If battery case is dama ee Protection: If battery case is dama ther Protection: Under severe exposure	ously to avoid spills. Make cer protection when filling, chargi terminals of the batteries. Char <u>WSHA approved</u> : normal conditions. When conce- aged, use rubber or plastic acid- aged, use chemical goggles or fi e emergency conditions, wear a	tain vent caps are on se ng or handling batteries ge the batteries in areas entrations of sulfuric ac resistant gloves with el ace shield.	curely. Avoid contact 5. Do not allow metalli with adequate ventila id mist are known to o bow-length gauntlet, a	t with internal componen ic materials to simultaneo ttion. General dilution ve exceed the PEL, use NIO	ously contact both the entilation is acceptable SH or MSHA-approv	e.
Handle batteries cautic clothing, eye and face positive and negative t espiratory Protection (NIOSH/M None required under n respiratory protection. in Protection: If battery case is dama ther Protection: Under severe exposure C.PHVSICAL AND CHEMICA	ously to avoid spills. Make cer protection when filling, chargi terminals of the batteries. Char MSHA approved): normal conditions. When conco- aged, use rubber or plastic acid- aged, use chemical goggles or fi e emergency conditions, wear a L PROPERTIES	tain vent caps are on se ng or handling batteries ge the batteries in areas entrations of sulfuric ac resistant gloves with el ace shield.	curely. Avoid contact 5. Do not allow metalli with adequate ventila id mist are known to o bow-length gauntlet, a	t with internal componen ic materials to simultaneo ttion. General dilution ve exceed the PEL, use NIO	ously contact both the entilation is acceptable SH or MSHA-approv	e.
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Handle batteries cautic clothing, eye and face positive and negative t spiratory Protection (NIOSH/M None required under n respiratory protection. in Protection: If battery case is dama ther Protection: Under severe exposure PIVSICAL AND CHEMICA operties Listed Below are for E Boiling Point: Nelting Point: Solubility in Water;	ously to avoid spills. Make cer protection when filling, chargi terminals of the batteries. Char <u>WSHA approved</u>): normal conditions. When conce- aged, use rubber or plastic acid- aged, use chemical goggles or fi e emergency conditions, wear a <u>L PROPERTIES</u> Electrolyte: Butyl Acetate = 1)	tain vent caps are on se ng or handling batteries ge the batteries in areas entrations of sulfuric ac resistant gloves with el nce shield. cid-resistant clothing a 203 - 240° F N/A 100% Less than 1	seurely. Avoid contacts bo not allow metallis with adequate ventila id mist are known to o bow-length gauntlet, a nd boots. Specific Gravity (H Vapor Pressure (m Vapor Density (All % Volatile by Wei	t with internal componen ic materials to simultaneo tion. General dilution ve exceed the PEL, use NIO acid-resistant apron, clott 12O = 1): m Hg: R = 1):	susly contact both the initiation is acceptabl SH or MSHA-approv hing and boots. 1.215 to 1.350 10 Greater than 1 N/A	e. red
Handle batteries cautic clothing, eye and face positive and negative I espiratory Protection (NIOSH/ None required under n respiratory protection. in Protection: If battery case is dama or Protection: If battery case is dama ther Protection: Under severe exposure CPHYSICAL AND CHEMICA roperties Listed Below are for E Boiling Point: Melting Point: Solubility in Water: (I	ously to avoid spills. Make cer protection when filling, chargi terminals of the batteries. Char MSHA approved): normal conditions. When conce- aged, use rubber or plastic acid- aged, use rubber or plastic acid- aged, use chemical goggles or fi e emergency conditions, wear a L PROPERTIES Electrolyte: Butyl Acetate = 1)	tain vent caps are on se ng or handling batteries ge the batteries in areas entrations of sulfuric ac resistant gloves with el ace shield. cid-resistant clothing a 203 = 240° F N/A 100% Less than 1 is °1 to 2	eurely. Avoid contact . Do not allow metalli with adequate ventila id mist are known to o bow-length gauntlet, a nd boots. Specific Gravity (E Vapor Pressure (m Vapor Density (All) % Volatile by Wei Flash Point:	t with internal component ic materials to simultanee ation. General dilution ve exceed the PEL, use NIO acid-resistant apron, cloth acid-resistant aprox acid-resistant ap	susly contact both the initiation is acceptabl SH or MSHA-approv hing and boots. 1.215 to 1.350 10 Greater than 1 N/A Below room temper	e.
Handle batteries cautic clothing, eye and face positive and negative t espiratory Protection (NIOSH/M None required under n respiratory protection. in Protection: If battery case is dama ve Protection: If battery case is dama ther Protection: Under severe exposure CPHVSICAL AND CHEMICA roperties Listed Below are for Boiling Point: Boiling Point:	ously to avoid spills. Make cer protection when filling, chargi terminals of the batteries. Char MSHA approved): normal conditions. When conce- aged, use rubber or plastic acid- aged, use rubber or plastic acid- aged, use chemical goggles or fi e emergency conditions, wear a L PROPERTIES Electrolyte: Butyl Acetate = 1)	tain vent caps are on se ng or handling batteries ge the batteries in areas entrations of sulfuric ac resistant gloves with el ace shield. acid-resistant clothing a 203 - 240° F N/A 100% Less than 1 t: ~1 to 2 4.1% (Hydrogen)	seurely. Avoid contacts bo not allow metallis with adequate ventila id mist are known to o bow-length gauntlet, i bow-length gauntlet, i Napor Pressure (m Vapor Pressure (m Vapor Density (All % Volatile by Weig Flash Point: UEL (Upper Explo	t with internal component ic materials to simultanee ation. General dilution ve exceed the PEL, use NIO acid-resistant apron, cloth acid-resistant aprox acid-resistant ap	susly contact both the initiation is acceptabl SH or MSHA-approv hing and boots. 1.215 to 1.350 10 Greater than 1 N/A	e. red
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E	0			Form #: SDS 853026
Ene	rSys.	SAFETY DATA SHEET	HAWKER	Revised: 05/14/15
		SAFETT DATA SHEET	WAWKEN	Supersedes: NEW
,	"ower/Full Solutions			ECO #: 1001584
	IVITY DATA			
Stability: S				
This produ	ct is stable under normal conditions at ambie	at temperature.		
Conditions	To Avoid: Prolonged overcharge; sources of ig	nition		
Incompatib	ility: (Materials to avoid)			
			 Also reacts violently with strong reducing agent 	
		d water. Contact with metals may produce toxic	c sulfur dioxide fumes and may release flammable	1
	hydrogen gas.	and have believe believe to antenious of		
	and reducing agents.	icids, bases, nandes, naiogenates, potassium nu	trate, permanganate, peroxides, nascent hydrogen	
Hazardons	Decomnosition Products:			
inazar uosas		de, sulfuric acid mist, sulfur dioxide, and hydro	gen sulfide.	
	Lead Compounds: High temperatures likely to	produce toxic metal fume, vapor, or dust; cont	act with strong acid or base or presence of nascen	t
	hydrogen may generate highly toxic arsine gas.			
Hazardous	Polymerization:			
578 10-05 578 J	Will not occur			
XI. TOXIC Routes of E	OLOGICAL INFORMATION			
	Sulfuric Acid: Harmful by all routes of entry.			
	Lead Compounds: Hazardous exposure can oc	cur only when product is heated, oxidized or of	therwise processed or damaged to create dust, vap	or
	or fume. The presence of nascent hydrogen ma	y generate highly toxic arsine gas.		
Inhalation:				
		rs or mists may cause severe respiratory irritatio		
Ingestion:	Lead Compounds: innatation of lead dust of h	imes may cause irritation of upper respiratory to	ract and lungs.	
rugesuon.	Sulfuric Acid: May cause severe irritation of n	nouth, throat, esophagus and stomach.		
	Lead Compounds: Acute ingestion may cause	abdominal pain, nausea, vomiting, diarrhea and	d severe cramping. This may lead rapidly to syste	mic
	toxicity and must be treated by a physician.			
Skin Conta				
	Sulfuric Acid: Severe irritation, burns and ulco			
Eye Contac	Lead Compounds: Not absorbed through the s	un.		
Lyc Contac	Sulfuric Acid: Severe irritation , burns, cornea	damage, and blindness.		
	Lead Components: May cause eye irritation.			
Effects of C	Werexposure - Acute:			
	Sulfuric Acid: Severe skin irritation, damage t			
		de headache, fatigue, abdominal pain, loss of a	ppetite, muscle aches and weakness, sleep	
Effects of C	disturbances and irritability. Verexposure - Chronic:			
Linetis of C		el, inflammation of nose, throat and bronchial tu	ubes.	
	Lead Compounds: Anemia; neuropathy, partic	ularly of the motor nerves, with wrist drop; kid	ney damage; reproductive changes in males and	
	females. Repeated exposure to lead and lead co	in the workplace may result in nervo	us system toxicity. Some toxicologists report abno	smal
			d exposure may result in central nervous system o	lamage,
	encephalopathy and damage to the blood-formi	ng (hematopoietic) tissues.		
Carcinogen		esearch on Cancer (IARC) has classified "stron	g inorganic acid mist containing sulfuric acid" as	
			apply to liquid forms of sulfuric acid or sulfuric	
		-	ated under normal use of this product. Misuse of	the
	product, such as overcharging, may result in th			
			s. Per the guidance found in OSHA 29 CFR 1910	.1200
		o GHS Category 1B. Proof of carcinogenicity i	n humans is lacking at present.	
Medical Co	nditions Generally Aggravated by Exposure:			
			ns. Contact of sulfuric acid with skin may aggrav forms of kidney. lives and neurologic diseases	ate
	urseases such as eczenia and contact dermatitis	 Lead and its compounds can aggravate some 	torms of kidney, river and neurologic diseases.	

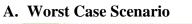
EnerSys.	SAFETY DATA SHEET	HAWKER	Form #: SDS 853026 Revised: 05/14/15 Supersedes: NEW ECO #: 1001584
Acute Toxicity:			ECO #. 1001384
inhalation LD50:			
	g/m3; LC50: guinea pig: 510 mg/m3		
	city Point Estimate = 4500 ppmV (based on lead bullion)		
The second second second second	ing i can estamate - 4500 ppin (cases on read ballou)		
Oral LD50:			
Electrolyte: rat: 2140 mg/kg			
	ity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)		
	-,,		
Additional Health Data:			
Most inhalation Follow good pe worksite. Keep tobacco and co never taken hor	Is, including the hazardous ingredients in this product, are taken into the l n problems can be avoided by adequate precautions such as ventilation an ersonal hygiene to avoid inhalation and ingestion: wash hands, face, neck a contaminated clothing out of non-contaminated areas, or wear cover cloth smetics to non-contaminated areas. Work clothes and work equipment use me or laundered with personal non-contaminated clothing. This product is eir environment.	d respiratory protection covered in Section 8. and arms thoroughly before eating, smoking or lea hing when in such areas. Restrict the use and press ed in contaminated areas must remain in designate	ence of food, ed areas and
	dment to EC Directive 67/548/EEC classified lead compounds, but not lea : May cause harm to the unborn child, applies to lead compounds, especia		ı.
XII. ECOLOGICAL INFO		ity soluble forms.	
Environmental Fate:			
Lead is very pe	rsistent in soil and sediments. No data on environmental degradation. Mo	bility of metallic lead between ecological compart	tments is slow.
	on of lead occurs in aquatic and terrestrial animals and plants but little bio		
	clude lead compounds and not elemental lead.	2	
Environmental Toxicity: A	quatic Toxicity:		
Sulfuric acid:	24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L		
	96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L		
Lead:	48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lea	ad bullion	
Additional Information:			
 No known eff 	ects on stratospheric ozone depletion.		
 Volatile organication 	nic compounds: 0% (by Volume)		
	gering Class (WGK): NA		
XIII. DISPOSAL CONSID	ERATIONS (UNITED STATES)		
Spent batteries: Send to see	ondary lead smelter for recycling. Spent lead-acid batteries are not regulat	ted as hazardous waste when the requirements of	
40 CFR Section 266.80 are a	net. This should be managed in accordance with approved local, state and	I federal requirements. Consult state environment	al
agency and/or federal EPA.			
Electrolyte:			
Place neutralized slurry into	sealed containers and handle as applicable with state and federal regulation	ons. Large water-diluted spills, after	
	hould be managed in accordance with approved local, state and federal req		
agency and/or federal EPA.			

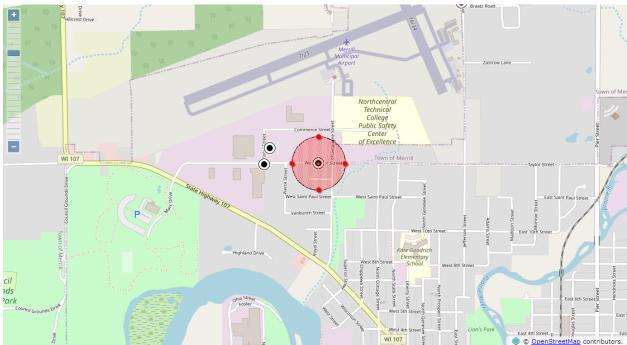
Ene	rSys. saf	ETY DATA SHEET	HAWKER	Form #: SDS 853026 Revised: 05/14/15 Supersedes: NEW
	Power-Put Solutions			ECO #: 1001584
XIV. TRA	NSPORT INFORMATION			100120T
U.S. DOT:				
	Excepted from the hazardous materials regulations (HM of the U.S. Department of Transportation's HMR. Batter Bettersteming have the period emigrate the second	ry and outer package must be m	-	
IATA Dee	Battery terminals must be protected against short circuit perous Goods Regulations DGR:	5.		
	Excepted from the dangerous goods regulations because	the batteries meet the requirem	ents of Packing Instruction 872 and Special Provisions	A67 of
	the International Air Transportation Association (IATA) Instructions. Battery Terminals must be protected again	Dangerous goods Regulations		
	The words " NOT RESTRICTED", SPECIAL PROVISI	ON A67* must be provided who	en the air waybill is issued.	
IMDG:				
	Excepted from the dangerous goods regulations for trans			e
D	International Maritime Dangerous Goods(IMDG CODE	 Battery terminals must be pr 	otected against short circuits.	
Requireme	ents for Safe Shipping and Handling of Cyclon Cells: Warning – Electrical Fire Hazard – Protect against short	ing Terminals can short and cu	use a firs if not inculated during chinning. Corden pro-	duct
	must be labeled "NONSPILLABLE" during shipping. F	-		
	through 180, available online at www.gpoaccess.gov.	outon an reactar subburg repai	anons. See section by or this sheet and er it 47 fails i	
Requireme	ents for Shipping Cyclon Product as Single Cells:			
	Protective caps or other durable inert material must be u	sed to insulate each terminal of	each cell unless cells are shipping in the original packa	aging
	from EnerSys, in full box quantities. Protective caps are			
Requirem	ents for Shipping Cyclon Product Assembled Into Mult	icell Batteries:		
-	Assembled batteries must have short circuit protection d	uring shipping. Exposed termin	nals, connectors, or lead wires must be insulated with a	1
	durable inert material to prevent exposure during shipping	ng.		
	LATORY INFORMATION			
UNITED S				
EPA SAR/				
Section 30.	2 EPCRA Extremely Hazardous Substances (EHS):	such a part of the state of the	H Blooking Operation (TBO) - 51,000 Ber	
	Sulfuric acid is a listed "Extremely Hazardous Substance			
	EPCRA Section 302 notification is required if 1000 lbs 40 CFR Part 355. The quantity of sulfuric acid will vary			onsuit
Section 30	4 CERCLA Hazardous Substances:	by ballery type. Contact you in	iersys representative for additional information.	
and the second second	Reportable Quantity (RQ) for spilled 100% sulfuric acid	under CERCLA (Superfund) a	nd	
	EPCRA (Emergency Planning and Community Right to			iav vary.
Section 31	/312 Hazard Categorization:			
	EPCRA Section 312 Tier Two reporting is required for r	non-automotive batteries if sulfu	tric acid is present in quantities of 500 lbs or more and	or if lead is
	present in quantities of 10,000 lbs or more. For more inf			
Section 313	BEPCRA Toxic Substances:			
	40 CFR section 372.38 (b) states: If a toxic chemical is	present in an article at a covere	d facility, a person is not required to consider the quant	ity of the
	toxic chemical present in such article when determining	whether an applicable threshok	d has been met under § 372.25, § 372.27, or § 372.28 o	e .
	determining the amount of release to be reported under		-	person
	or the person produced the article. However, this exempt	tion applies only to the quantity	of the toxic chemical present in the article.	
Supplier N	otification:			
	This product contains toxic chemicals, which may be rep If you are a manufacturing facility under SIC codes 20 th			
	If you are a manufacturing factury under SPC codes 20 th	rough 39, the following inform	ation is provided to enable you to complete the require	a reports:
	Toxic Chemical	CAS Number	1	
			Approximate % by Wt.	
	Lead Sulfuric Acid Electrolyte	7439-92-1	45 - 60	
	(Sulfuric Acid Electrolyte	7664-93-9	15 - 20	
	(Suntaile Field Water)	7440-31-5	0.1 - 0.2	
	See 40 CFR Part 370 for more details.	2440-31-3	0.1 - 0.2	
	over to CERCENT 570 BEILING DELLIS.			
	If you distribute this product to other manufacturers in S	IC Codes 20 through 39 this in	formation must be provided with the first shinment	
	of each calendar year.		and the second start of the second start	
	, , , , ,			
	The Section 313 supplier notification requirement does	not apply to batteries, which are	"consumer products".	
	*		-	

Ener	rsys.	SAFETY DATA SHEET	HAWKER	Form #: SDS 853026 Revised: 05/14/15 Supersedes: NEW ECO #: 1001584				
TSCA:	TSCA Section 8b - Inventory Status: A	Il chemicals comprising this product are either exem	pt or listed on the TSCA Inventory.					
	TSCA Section 12b (40 CFR Part 707.60(b)) No notice of export will be required for articles, except PCB articles, unless the Agency so requires in the context of individual section 5, 6, or 7 actions.							
		: No import certification required (EPA 305-B-99-0 oxic Substances Control Act, Section IV-A).	01, June 1999, Introduction to the					
RCRA:	Spent Lead Acid Batteries are subject to streamlined handling requirements when managed in compliance with 40 CFR section 266.80 or 40 CFR part 273. Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).							
CAA:	chemicals (ODC's), defined by the USE of 1990, finalized on January 19, 1993,	oncerning ozone depletion in the atmosphere due to PA as Class I substances. Pursuant to Section 611of EnerSys established a policy to eliminate the use of	f the Clean Air Act Amendments (CAAA)					
STATE RE	GULATIONS (US): <u>Proposition 65:</u> We size the second sec	related accessories contain lead and lead compounds.	denning between to the State of Collifornia to					
		s also contain other chemicals known to the State of						
INTERNAT	TIONAL REGULATIONS: Distribution into Quebec to follow Can	adian Controlled Product Regulations (CPR) 24(1) ar	nd 24(2).					
	Distribution into the EU to follow appli	cable Directives to the Use, Import/Export of the pro	duct as-sold.					
	ER INFORMATION							
Revised: 05/	/14/2015							
NFPA Haza	rd Rating for Sulfuric Acid:							
	Flammability (Red) = 0	Reactivity (Ye	ellow) = 2					
	Health (Blue) = 3	Sulfuric acid i	is water-reactive if concentrated.					

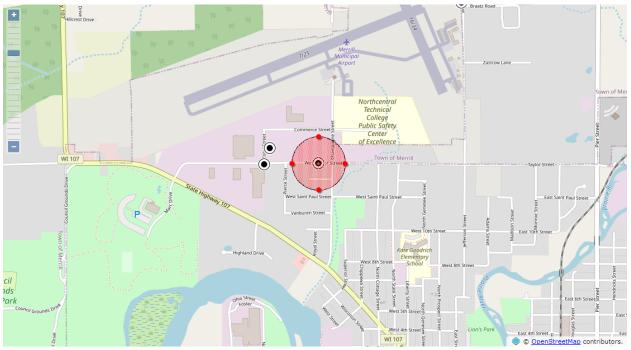


Vulnerability Zone Maps for Nitric Acid





B. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



EMERGENCY MANAGEMENT



2023 Off Site Plan: Packaging Corporation of America (PCA)

Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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I. Facility Information

A. Packaging Corporation of America

- 1. Address: N9090 County Road E, Tomahawk, WI 54487
- 2. Phone: (715) 453-2131
- 3. Facility ID # (Assigned by WEM): 9159

II.Facility Emergency Contacts

A. Tier II Contact:

- 1. Name: Kristy Neumann
- 2. Position: Manager
- 3. Emergency Phone: (715) 966-1239
- 4. Email: <u>kneumann@packagingcorp.com</u>

B. Tier II Emergency Coordinator:

- 1. Name: Nick Spencer
- 2. Position: Manager
- 3. Emergency Phone: (715) 966-1662
- 4. Email: <u>nicolasspencer@packagingcorp.com</u>

C. Tier II Alternative Coordinator:

- 1. Name: Logan Garski
- 2. Position: Safety Specialist
- 3. Emergency Phone: (715) 966-9572
- 4. Email: logangarski@packagingcorp.com

III. Extremely Hazardous Substances (EHS)

A. EHS Chemicals OVER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
7664-41-7	Ammonia (Aqueous)	18,600	18,600	> 10 miles
7664-93-9	Sulfuric Acid (Battery Acid)	4500	4,500	< 0.1 miles

B. EHS Chemicals UNDER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
108-91-8	Cyclohexanamine	3,600	3,600	0.1 miles

IV. Primary Emergency Responders

A. Packaging Corporation of America Emergency Response Team

- 1. Phone: (715) 453-2131 ext. 211
- **B.** Lincoln County Sheriff's Office
 - 1. Phone: 911 or (715) 563-6272

C. Lincoln County Emergency Communications Center

1. Phone: 911 or (715) 563-6272

D. Lincoln County Emergency Management

1. Phone: (715) 218-0128

E. Tomahawk Fire Department

1. Phone: 911 or (715) 453-8180

F. Tomahawk Police Department

1. Phone: 911 or (715) 453-2121

V. Support Available at Facility

A. Chemical Emergency Monitoring Equipment:

- 1. pH meter-two (2) 85 gallon over packs
- 2. Bbl. for hydrocarbons
- 3. Colorimetric Indicator Tubes
- 4. Multiple gas indicators

B. Personal Protective Equipment:

- 1. Self-Contained Breathing Apparatus (SCBA)—eight (8)
- 2. Spare oxygen tanks for SCBA—eight (8)

C. Other Equipment or Supplies:

- 1. Registered Nurse (RN)—One (1) full-time employee
- 2. Emergency Medical Technician (EMT)—One (1) full-time employee
- 3. Emergency Medical Responder (EMR)—Nineteen (19) full-time employees
- 4. Firefighter—Thirteen (13) full-time employees
- 5. Hazardous Material (HAZMAT) Technician—Seventeen (17) full-time employees

D. Outside Resources Available:

- 1. Lincoln County Emergency Management
 - a) Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

- 2. Chemtrec: (800) 424-9300
 - a) Unknown response time
- 3. National Response Center: (800) 424-8802
 - a) Unknown response time
- 4. REI—Spill & Response Recovery: (800) 734-7745
 - a) Unknown response time

VI. General information and Assumptions (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA) Technical Guidance for Hazard Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of an EHS occur.

A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the hazard analysis summary.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO*fm* cannot compute zones greater than 10 miles nor less than 0.1 miles. Thus, results that fall into these situations will be notes as "> 10 miles" or "< 0.1 miles".

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

VII. Hazard Analysis Summary

Packaging Corporation of America (PCA) is a paper mill located at N9090 Highway E in Tomahawk, WI. Processes conducted at the facility include but are not limited to pulp and paper mill. Extremely Hazardous Substances (EHS) utilized and stored at the facility include aqueous ammonia, sulfuric acid (battery acid), and cyclohexanamine.

Packaging Corporation of American operates seven (7) days a week utilizing three shifts to provide 24hour operations consisting of 400 employees. PCA employs its own fire and medical response which includes Hazmat Technicians.

A. Greatest Potential for Release

1. Ammonia (aqueous) at Packaging Corporation of American is present at 18,600 pounds in a concentration of 29% solution and stored in a 18,600 above ground tank.

B. Vulnerability Zones (by chemical)

Ammonia (Aqueous): CAS #	7664	4-41-7			
Amount Released:	18	,600 lbs.			
Concentration:	30	%			
Physical State:	Ga	IS			
Diked Area:	No				
Level of Concern (LOC):	0.0	35 gm/m^3			
LOC Type:	Gr	eenbook LOC	С		
Worst Case Scenario			Re-Evaluation Scenario		
Duration:		10 minutes	Duration	10 minutes	
Wind Speed:		3.4 mph	Wind Speed:	11.9 mph	
Ground Roughness:		Rural	Ground Roughness:	Urban	
Atmospheric Stability Clas	s:	F	Atmospheric Stability Class:	D	
Risk:		Low	Risk:	Low	
Consequences:		Low	Consequences:	Low	
Overall Risk:		Low	Overall Risk:	Low	
Threat Zone Radius:		> 10 miles	Threat Zone Radius:	0.4 miles	

Sulfuric Acid (Battery Acid):	CAS #7664-	.93-9		
Amount Released:	4,500 lbs.			
Concentration:	100%			
Physical State:	Liquid (Ambient)			
Diked Area:	No			
Level of Concern (LOC):	0.008 gm/m ³			
LOC Type:	Greenbook	LOC		
Worst Case Scenario			Re-Evaluation Scenario	
Duration:	10 minu	utes	Duration	10 minutes
Wind Speed:	3.4 mpl	h	Wind Speed:	11.9 mph
Ground Roughness:	Rural		Ground Roughness:	Urban
Atmospheric Stability Class	s: F		Atmospheric Stability Class:	D
Risk:	Low		Risk:	Low
Consequences:	Low		Consequences:	Low
Overall Risk:	Low		Overall Risk:	Low
Threat Zone Radius:	< 0.1 m	niles	Threat Zone Radius:	< 0.1 miles

AMERCOR 1848 (Cyclohexa	nan	nine): CAS #10	8-91-8	
Amount Released:	12	,000 lbs.		
Concentration:	30	1%		
Physical State:	Liquid (Ambient)			
Diked Area:	No			
Level of Concern (LOC):	0.16 gm/m ³			
LOC Type:	Greenbook LOC			
Worst Case Scenario			Re-Evaluation Scenario	
Duration:		10 minutes	Duration	10 minutes
Wind Speed:		3.4 mph	Wind Speed:	11.9 mph
Ground Roughness:		Rural	Ground Roughness:	Urban
Atmospheric Stability Clas	s:	F	Atmospheric Stability Class:	D
Risk:		Low	Risk:	Low
Consequences:		Low	Consequences:	Low
Overall Risk:		Low	Overall Risk:	Low
Threat Zone Radius:		0.1 miles	Threat Zone Radius:	< 0.1 miles

C. Estimation of Population Affected

- 1. Ammonia (Aqueous)
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would be less than 500 employees, less than 3,432 persons in general population and fourteen (14) special facilities.
 - b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance would be 500 employees and no other populations or facilities affected.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.
- 2. Sulfuric Acid (Battery Acid)
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would be less than 10 employees and no other populations or facilities affected.
 - b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance would be 10 employees and no other populations or facilities affected.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that no shelter, isolation, or evacuation would have to take place in conjunction with this extremely hazardous chemical. Special Facilities Affected.

D. Critical Infrastructure

- 1. Samuel & Sons
 - a) 1119 Bridge Street, Tomahawk, WI 54487
 - b) (715) 453-5326

E. Hospital

- 1. Aspirus Tomahawk Hospital
 - a) 401 W. Mohawk Drive, Tomahawk, WI 54487
 - b) (715) 453-7200

F. Nursing Homes/Assisted Living Facilities

- 1. Country Terrace of Wisconsin
 - a) 300 Theiler Drive, Tomahawk, WI 54487
 - b) (715) 224-3701
- 2. Railway Group Home
 - a) 18 South Railway Street, Tomahawk, WI 54487
 - b) (715) 453-7615
- 3. Our Way, Inc.
 - a) 825 Charles Avenue, Tomahawk, WI 54487
 - b) 427 North 5th Street, Tomahawk, WI 54487
 - c) (715) 453-8281
- 4. Milestone Senior Living Tomahawk
 - a) 314 East Lincoln Avenue, Tomahawk, WI 54487
 - b) (715) 224-3747
- 5. Riverview Health Services
 - a) 428 North 6th Street, Tomahawk, WI 54487
 - b) (715) 453-2511
- 6. Golden Age (Tomahawk Health Services)
 - a) 720 East King Road, Tomahawk, WI 54487
 - b) (715) 453-2164

G. Schools

- 1. Tomahawk Elementary School
 - a) 1048 East King Road, Tomahawk, WI 54487
 - b) (715) 453-2126
- 2. Tomahawk Middle School
 - a) 1048 East King Road, Tomahawk, WI 54487
 - b) (715) 453-5371
- 3. Tomahawk High School
 - a) 1048 East King Road, Tomahawk, WI 54487
 - b) (715) 453-2106

- 4. Wisconsin Virtual School
 - a) 304 Kaphaem Road, Tomahawk, WI 54487
 - b) (715) 453-1953
- 5. Tomahawk Head Start
 - a) 1048 East King Road, Tomahawk, WI 54487
 - b) (715) 453-1008

H. Child Care/Day Care

- 1. Tomahawk Child Care
 - a) 648 East Lincoln Avenue, Tomahawk, WI 54487
 - b) (715) 453-1602

VIII.Population Protection

The determination to shelter in-place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter-in-place. Preferred areas for protective sheltering would be interior hallways, rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.

IX. Distribution List

- Packaging Corporation of America
- Tomahawk Fire Department
- Wisconsin Emergency Management Northeast Regional Office
- Oneida County Sheriff Office Hazardous Materials Response Team
- Wausau Wisconsin Hazardous Response Team
- Oneida County Emergency Management

X. Supporting Documentation

A. Attachments

- 1. Attachment A, Record of Change and Review
- 2. Attachment B, Facility Layout and Site Information
- 3. Attachment C, Transportation Route Map
- 4. Attachment D, Safety Data Sheet for Ammonia (Aqueous)
- 5. Attachment E, Safety Data Sheet for Sulfuric Acid (Battery Acid)
- 6. Attachment F, Vulnerability Zone Map for Ammonia (Aqueous)
- 7. Attachment G, Vulnerability Zone Map for Sulfuric Acid (Battery Acid)

Attachment A

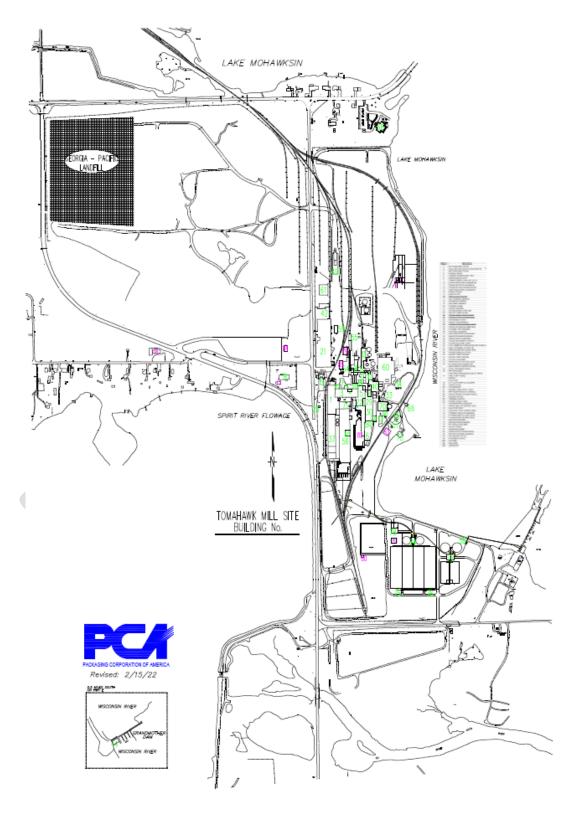
Record of Change/ Review /Signature

Date	Contributor	Description of Change	Page Number(s)

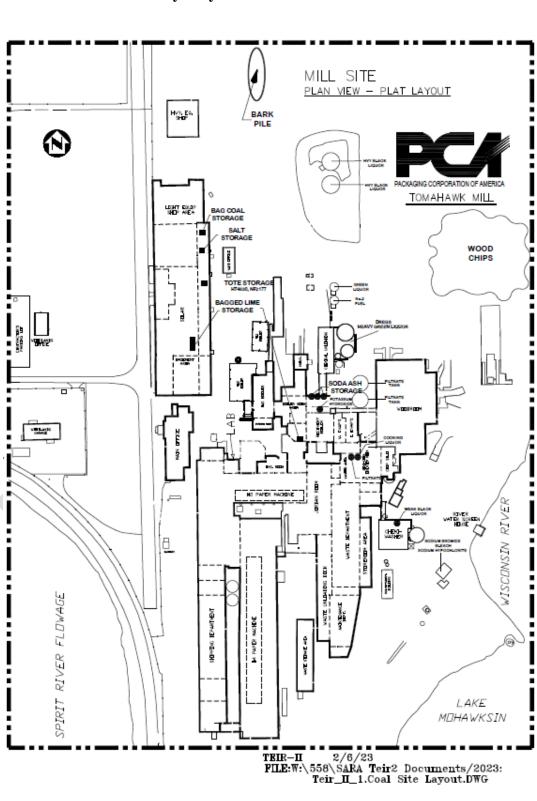
Please see EPCRA Hazardous Materials Off-Site Plan Transmittal Form for approval and signatures.

Attachment B

Facility Layout and Site Information



Attachment B cont.



Facility Layout and Site Information

Attachment C

Transportation Route Map



Attachment D

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE Product ID: NH0026 Revised: 06-07-2022 Replaces: 02-24-2020	I
1. IDENTIFICATION	
on the Label: Other Identifiers: Product ID: Recommended Use: Restrictions on Use:	AMMONIUM HYDROXIDE Ammonium Hydroxide; Aqueous Ammonia; Ammonia Water; Ammonia Solution MIXTURE Please follow all Hydrite Technical Literature, Hydrite SDS and Hydrite Product Labels associated with this material's use instructions. If you require further instruction on approved uses for this material, please contact your Hydrite Service Representative. It is not recommended that this product be used in a manner that is inconsistent with the Hydrite Technical Literature, the Hydrite SDS or product label associated with this material. If you have questions regarding use of this product, please contact your Hydrite Service Representative.
Hydrite Chemical Co. 17385 Golf Parkway Brookfield, WI 53045 (262) 792-1450	EMERGENCY RESPONSE NUMBERS: 24 Hour Emergency #: (414) 277-1311 CHEMTREC Emergency #: (800) 424-9300
2. HAZARD(S) IDENT	IFICATION
GHS Classification(s):	Skin Corrosion/Irritation Category 1C Serious Eye Damage/Eye Irritation Category 1 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3 Acute Toxicity - Oral Category 4
GHS Label Elements:	
GHS Hazard Symbols:	
Signal Word:	Danger
Hazard Statements:	Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation.
Precautionary Stateme	nts:
Prevention:	Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYE Product ID: NH0				
	Specific tre	y call a POISON CENTER or doctor/ atment (see First Aid on SDS or on t aminated clothing before reuse.		
Storage:		vell-ventilated place. Keep container ecure manner.	tightly closed.	
Disposal:	Dispose of	in accordance with local, regional an	d international regula	tions.
Hazards not oth	nerwise classified:	May react with certain metals to fo gas. May be corrosive to certain m volatile and may release ammonia concentrations of 16-25% volume by inhalation and corrosive. Take a	etals. Ammonium hy as a gas. Ammonia v by weight in air, is flar	/droxide is very /apor, in mmable, toxic
3. COMPOSIT	ION/INFORMATIO	N ON INGREDIENTS		
Substances/Mix	tures:			
Chemical or Con Ammonium Hydr	mmon Name/Synony oxide	<u>/ms</u>	CAS Number 1336-21-6	<u>% by Wt.</u> ~55 - 62%
Note:	CONTAINS ~27-3	0% AMMONIA (CAS# 7664-41-7).		

Note: Any chemical identity and/or exact percentage not expressly stated is being withheld as a trade secret or is due to batch variation.

4. FIRST-AID MEASURES

Description of Necessary Measures:

Eye Contact: If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

Skin Contact: If on skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned.

Inhalation: If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion: If swallowed: If fully conscious, drink a quart of water. DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY. If unconscious or in convulsions, take immediately to a hospital or a physician. NEVER induce vomiting or give anything by mouth to an unconscious victim. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. After dilution with water, fruit juice or diluted vinegar may be administered to accomplish neutralization.

Most Important Symptoms/Effects, Acute and Delayed:

Eye Contact: CORROSIVE-Causes severe irritation and burns. Vapors may cause: burns. May cause: corneal damage. conjunctivitis. permanent eye damage. blindness.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Concentrated ammonia may produce liquefication necrosis and deep penetrating burns. Contact may cause: dermatitis (inflammation of the skin).

Skin Absorption: May be harmful if absorbed through skin.

Inhalation: CORROSIVE-Causes severe irritation and burns. May cause damage to the: mouth. throat. nose. lungs. respiratory tract. May cause: chest pain. coughing. asthma. pink frothy sputum. lung fibrosis. running nose. pulmonary edema. chemical pneumonitis. death. Effects may be delayed.

Ingestion: CORROSIVE-Causes severe irritation and burns. May produce systemic effects similar to inhalation. May cause: headache. drowsiness. liver congestion. urinary retention. nausea. vomiting. coma. death. May cause swelling of the: lips. larynx. May cause damage to the: mouth. throat. esophagus.

Attachment D, cont.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE Product ID: NH0026

Indication of Immediate Medical Attention and Special Treatment Needed: The conventional symptoms of developing pulmonary edema should be observed regularly. Anyone exposed to ammonia who breathes in short, rapid shallow breaths should be immobilized. In most cases 24 hour bed rest, under the observation of a physician, will be necessary before it can be determined that the victim is out of danger. Anyone who accidentally has been exposed to high or unknown concentrations of ammonia and who has ammonical breath, tightness of the chest, bloodshot eyes with swollen lids, and a cough that may discharge bloody mucous is seriously ill. Medical assistance should be summoned immediately. SUCH A PERSON SHOULD BE IMMOBILIZED AT ONCE, eyes washed, and oxygen administered by a physician. Any sort of movement on the victim's part will aggravate the developing edema and may result in death.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Foam. Carbon dioxide. Dry chemical. Water spray.

Specific Hazards Arising from the Chemical:

Fire and Explosion Hazards: Contact with strong oxidizing agents may cause an explosion. The presence of oil or other combustible materials will increase the fire hazard. The heat of a welding or cutting torch could cause an explosion. Ammonia will combine readily with either silver oxide or mercury to form explosive fulminating compounds. Contact with halogens and chlorates can cause explosions.

Hazardous Combustion Products: Nitrogen oxides. Ammonia.

Special Protective Equipment and Precautions for Fire-Fighters: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers and disperse vapors. Run-off from fire control may cause pollution.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, Emergency Procedures: CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit.

Methods and Materials for Containment and Clean Up: Shut off source of leak if safe to do so. Keep upwind of leak or spill. Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of properly. CAUTIOUSLY neutralize remaining residue with dilute acid such as Acetic, Hydrochloric or Sulfuric. Soak up residue with inert absorbent material. Place in non-leaking containers for immediate disposal. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. CORROSIVE MATERIAL. Avoid dust or mist formation.

Conditions for Safe Storage, Including any Incompatibilities: CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Keep away from all sources of ignition. Avoid copper bearing fittings on pipes, tanks, etc.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines: Component Ammonium Hydroxide

Limits 50 ppm TWA; 35 mg/m3 TWA

Attachment D, cont.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE Product ID: NH0026

ACGIH Exposure Guidelines: <u>Component</u> Ammonium Hydroxide 25 ppm TWA; 35 ppm STEL

Note:

Exposure limits for Ammonia: 50 ppm-TWA (OSHA); 25 ppm-TWA, 35 ppm-STEL (ACGIH).

Appropriate Engineering Controls: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Individual Protection Measures:

Eye/Face Protection: Wear chemical safety goggles while handling this product. Do not wear contact lenses. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Impervious. Chemical-resistant.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. If exposure limits are exceeded, wear: NIOSH approved full facepiece respirator with: Ammonia cartridge. NIOSH/MSHA-Approved (or equivalent) full facepiece airline respirator in the positive pressure mode with emergency escape provisions. NIOSH-Approved self-contained breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower. Rubber apron. Chemical safety shoes. Rubber boots. Full body suit. Protective clothing.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid. Color: Clear. Colorless. Odor: Pungent ammonia odor. Odor Threshold: N.D. pH: > 13 (as is) Freezing Point (deg. F): N.D. Melting Point (deg. F): N.D. Initial Boiling Point or Boiling Range: N.A. Flash Point: N.A. Flash Point Method: N.A. Evaporation Rate (nBuAc = 1): N.D. Flammability (solid, gas): N.D. Lower Explosion Limit: N.A. Upper Explosion Limit: N.A. Vapor Pressure (mm Hg): N.D. Vapor Density (air=1): N.D. Specific Gravity or Relative Density: 0.895 @ 25 F Solubility in Water: Complete Partition Coefficient (n-octanol/water): N.D. Auto-ignition Temperature: No Data Decomposition Temperature: N.D.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE Product ID: NH0026

Viscosity: N.D. % Volatile (wt%): N.D. VOC (wt%): N.D. VOC (lbs/gal): N.D. Fire Point: N.D.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid (e.g., static discharge, shock, or vibration): Avoid contact with heat, sparks, electric arcs, other hot surfaces, and open flames. Avoid elevated temperatures.

Incompatible Materials: Acids. Strong oxidizing agents. Combustible materials. Halogens or halogen compounds. Oleum. Acrolein. Sodium hydroxide. Chlorates. Chromium trioxide. Ethylene oxide. Boron. Chlorites. Dimethyl trioxide. Phosphorous trioxide. Propylene oxide. Nitrogen tetroxide. Silver nitrate. Silver chloride. Potassium chlorate. Potassium ferricyanide. Dimethyl sulfate. Metals. Copper. Organic Acids. Gaseous or liquid ammonia will vigorously attack, copper, silver, zinc and their alloys. It will combine readily with either silver oxide or mercury to form explosive fulminating compounds. Avoid use of nonferrous metals. Galvanized surfaces. Forms explosive compounds with many heavy metals (gold, silver, mercury, etc.) and their salts, especially halide salts. Sodium hypochlorite. Silver. Zinc. Gold. Brass. Bronze. Aluminum. Mercury. Galvanized steel.

Hazardous Decomposition Products: Ammonia. Nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Eyes. Ingestion. Inhalation. Skin.

Symptoms/Effects: Acute, Delayed and Chronic:

Eye Contact: CORROSIVE-Causes severe irritation and burns. Vapors may cause: burns. May cause: corneal damage. conjunctivitis. permanent eye damage. blindness.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Concentrated ammonia may produce liquefication necrosis and deep penetrating burns. Contact may cause: dermatitis (inflammation of the skin).

Skin Absorption: May be harmful if absorbed through skin.

Inhalation: CORROSIVE-Causes severe irritation and burns. May cause damage to the: mouth. throat. nose. lungs. respiratory tract. May cause: chest pain. coughing. asthma. pink frothy sputum. lung fibrosis. running nose. pulmonary edema. chemical pneumonitis. death. Effects may be delayed.

Ingestion: CORROSIVE-Causes severe irritation and burns. May produce systemic effects similar to inhalation. May cause: headache. drowsiness. liver congestion. urinary retention. nausea. vomiting. coma. death. May cause swelling of the: lips. larynx. May cause damage to the: mouth. throat. esophagus.

Dermal LD50

No Data

Numerical Measures of Toxicity:

Component	Oral LD50
Ammonium Hydroxide	Rat: 350 mg/kg

Acute Toxicity Estimates (ATE): Oral: 586 mg/kg

Cancer Information:

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

Medical Conditions Aggravated by Exposure to Product: Eye disorders. Liver disorders. Lung disorders. Respiratory system disorders. Skin disorders. Allergies.

Inhalation LC50

No Data

Attachment D, cont.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE Product ID: NH0026

Other: Exposure to atmospheric concentrations of ammonia above 5000 pmm in air will produce death by suffocation within minutes. Atmospheric ammonia in concentrations above 2000 ppm will burn and blister the skin after a few seconds of exposure. Excess ammonia in the body is detoxified in the liver by conversion to urea. Those with a history of reduced liver function should avoid exposure to ammonia. Acute or chronic overexposure to this material or its components may cause systemic toxicity, including adverse effects to the kidney, eye, respiratory, cardiovascular and nervous systems.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: This material is expected to be very toxic to aquatic life. The 96 hour LC50 values for fish are less than 1 mg/L. The 48 hour EC50 values for daphnia are less than 1 mg/L.

Chemical Fate Information: This material is not expected to significantly bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D002

Disposal Method: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

14. TRANSPORTATION INFORMATION

DOT (Department of Transportation):

Identification Number:	UN2672
Proper Shipping Name:	Ammonia Solution
Hazard class:	8
Packing Group:	III
Marine Pollutant:	Ammonia solution
Label Required:	CORROSIVE
Reportable Quantity (RQ):	100# (Ammonia); 1000# (Ammonium Hydroxide)

15. REGULATORY INFORMATION

TSCA Inventory Status: This product or all components of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

SARA Title III Section 311/312 Category Hazards: Please see Section 2 of this SDS.

Regulated Components:	CAS	CERCLA	SARA	SARA	<u>U.S.</u>	WI	Prop
Component	Number	RQ	EHS	<u>313</u>	HAP	HAP	<u>65</u>
Ammonium Hydroxide	1336-21-6	Yes	Yes	Yes	No	Yes	No

Note:

* Section 313 threshold and release determinations are based on 10% of the total aqueous ammonia manufactured, processed or otherwise used. This product contains Ammonia (CAS# 7664-41-7) which is subject to 313 reporting requirements. If ammonia is released to the environment, it is subject to EPCRA 302 and 304 reporting requirements: CERCLA RQ of 100 pounds, SARA RQ of 100 pounds, and TPQ of 500 pounds. Ammonia is not an EPA HAP.

16. OTHER INFORMATION

Hazard Rating System Health: 3* Flammability: 1 Reactivity: 0

Attachment D, cont.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE Product ID: NH0026

* = Chronic Health Hazard

NFPA Rating System Health: 3 Flammability: 1 Reactivity: 0 Special Hazard: None

SDS Abbreviations N.A. = Not Applicable N.D. = Not Determined HAP = Hazardous Air Pollutant VOC = Volatile Organic Compound C = Ceiling Limit N.E./Not Estab. = Not Established

SDS Prepared by: JAK

Reason for Revision: New format. Changes made throughout the SDS.

Revised: 06-07-2022 Replaces: 02-24-2020

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

EnerSys	s	AFETY DATA SI	IFFT		Form #: SDS 853024 Revised: AD 01/04/19
Course and Society	5	ALLI DALASI			Supersedes: AC
I. PRODUCT IDENTIFICATION					ECO #: 1002070
Chemical Trade Name (as used on label):			Chemical Family/Cl	lassification:	
Non-Spillable Lead Acid Battery			Electric Storage Batte		
Synonyms:					
Industrial Battery, Traction Battery, Stations	ary Battery,		Telephone:		
Deep Cycle Battery				emergencies, contact En	
Manufacturer's Name/Address:			Environmental, Healt	th & Safety Dept. at 610	-208-1996
EnerSys			25		
P.O. Box 14145 2366 Bernville Road			24-Hour Emergency		
Reading, PA 19612-4145			CHEMITKEC DOME	STIC: 800-424-9300	CHEMTREC INT'L: 703-527-3877
II GHS HAZARDS IDENTIFICATION		Charles and the second second			
HEALTH			ENVIRONMENTAL		PHYSICAL
Acute Toxicity			Aquatic Chronic I		Explosive Chemical, Division 1.3
Concernance of the Law Instruments of the	Category 4		Aquatic Acute 1		Exposite Constituti, Division 1.5
	Category 1A				
	Category 1	1			
Reproductive C	Category 1A	1			
	Category 1B	1			
	Category 1A	1			
	Category 1A	1			
	Category 2	1			
Toxicity (repeated exposure)					
GHS LABEL: HEALTH	and the second		ENVIRONMENTAL	and Party Later	PHYSICAL
DANGER! Causes severe skin burns and serious eye dat May damage fertility or the unborn child if in nhaled. May cause cancer if ingested or inhaled. Causes damage to central nervous system, bi idneys through prolonged or repeated expos May form explosive air/gas mixture during ci ixtremely flammable gas (hydrogen).	ngested or lood and sure-	Wear protective glov Avoid breathing dust Use only outdoors or Contact with internal Irritating to eyes, resj Obtain special instru-	er handling. smoke when using this p es/protective clothing, o /fume/gas/mist/vapors// in a well-ventilated are components may cause piratory system, and ski ctions before use.	eye protection/face prote spray. a. e irritation or severe bur	ns. Avoid contact with internal acid.
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LIIC	SA SA	FETY DATA SH	EET		Revised: AD 01/04/19
-	Prover Stall Schedular				Supersedes: AC
Other:	Control of all and the second				ECO #: 1002070
Councer.	Silicon Dioxide (Gel batteries only)	7631-86-9	1-5		
	Sheet Molding Compound	7031-80-9	1-5		
	(Glass reinforced polyester)	-			
		imani componente of	1.0	and the Provention	
	Inorganic lead and electrolyte (sulfuric acid) are the p	runary components or e	very battery manufactu	ired by EnerSys.	
IV FIRST	Other ingredients may be present dependent upon batt AID MEASURES	ery type. Contact your	EnerSys representative	g for additional information,	
Inhalation				and the second	
	Sulfuric Acid: Remove to fresh air immediately. If be	reathing is difficult, giv	e oxygen. Consult a ph	Astician	
	Lead: Remove from exposure, gargle, wash nose and	lins: consult abysician	e ondigens consult a bu	· · · · · · · · · · · · · · · · · · ·	
Ingestion:	informati Bullist	nipo, consure priyotetan.			
	Sulfuric Acid: Give large quantities of water; do not i	nduce vomiting or aspi	ration into the lunes m	ay occur and can cause nermanent initiary or	death:
	consult a physician.	interest community or aspe	renous mus une nauge mit	ay occur and can cause permanent injury or	acata,
	Lead: Consult physician immediately.				
Skin:					
	Sulfuric Acid: Flush with large amounts of water for a	at least 15 minutes: rem	love contaminated cloth	hing completely, including shoes	
	If symptoms persist, seek medical attention, Wash con	taminated clothing bef	ire reuse. Discard cont	aminated shoes	
	Lead: Wash immediately with soap and water,	annande eroening oes	ore reare. Discard com	annumeu snoes,	
Eyes:					
	Sulfurie Acid and Lead: Flush immediately with large	amounts of water for a	least 15 minutes while	lifting lids	
	Seek immediate medical attention if eyes have been es			to the second seco	
V. FIRE F	IGHTING MEASURES	posed an eerly to sere:		State and the second state of the	
Flash Point	1: N/A	Flammable Limits:	LEL = 4.1% (Hydrogen	(Gas) UEL = 74.2%	
Extinguish	ing Media: CO2; foam; dry chemical. Do not use carbo	on dioxide directly on co	ells. Avoid breathing va	apors. Use appropriate media for surrounding	e fire.
Special Fir	E Fighting Procedures:			7	5.000 C
	If batteries are on charge, shut off power. Use positiv	e pressure, self-contain	ed breathing apparatus	. Water applied to electrolyte generates	
	heat and causes it to spatter. Wear acid-resistant cloth	ing, gloves, face and ey	e protection.	11	
	But note that strings of series connected batteries may	still pose risk of electri	c shock even when cha	rging equipment is shut down.	
Unusual Fi	re and Explosion Hazards:				
	Highly flammable hydrogen gas is generated during ch	arging and operation o	f batteries. To avoid ris	sk of fire or explosion, keep sparks or other	
	sources of ignition away from batteries. Do not allow	metallic materials to sit	multaneously contact n	egative and positive terminals of cells and	
	batteries. Follow manufacturer's instructions for instal	lation and service.			
	DENTAL RELEASE MEASURES			4	Long String String to States
Spill or Lea	k Procedures:				
	Stop flow of material, contain/absorb small spills with	dry sand, earth, and ve	rmiculite. Do not use e	combustible materials. If possible, carefully	
	neutralize spilled electrolyte with soda ash, sodium bic	arbonate, lime, etc. W	ear acid-resistant clothi	ing, boots, gloves, and face shield. Do not	
	allow discharge of unneutralized acid to sewer. Acid m	ust be managed in acco	ordance with local, stat	e, and federal requirements.	
	Consult state environmental agency and/or federal EP/	\			
	LING AND STORAGE		C SAULT AND AND SAU		and the second second second
Handling:	and in second concerning the second				
Uniess invol	ved in recycling operations, do not breach the casing or	empty the contents of	the battery. Handle care	efully and avoid tipping.	
	llow electrolyte leakage. There may be increasing risk o				
Keep contail	ters tightly closed when not in use. If battery case is br	oken, avoid contact wit	h internal components,		
Keep vent ci	aps on and cover terminals to prevent short circuits. Pla	ce cardboard between	ayers of stacked autom	otive batteries to avoid damage and short cit	rcuits.
Keep away t	rom combustible materials, organic chemicals, reducing	substances, metals, st	ong oxidizers and wate	er. Use banding or stretch wrap to secure ite	ms for
shipping.					
Storage:					
store batters	es in cool, dry, well-ventilated areas with impervious su	rfaces and adequate co	ntainment in the event	of spills. Batteries should	
also be store	d under roof for protection against adverse weather con-	ditions. Separate from	incompatible materials	Store and handle only	
in areas with	adequate water supply and spill control. Avoid damag	e to containers. Keep a	way from fire, sparks a	nd heat. Keep away from metallic objects co	buld
bridge the te	minals on a battery and create a dangerous short-circuit	t			
Charging:					
There is a po	ssible risk of electric shock from charging equipment a	nd from strings of serie	s connected batteries, v	whether or not being charged. Shut-off powe	r to
chargers who	enever not in use and before detachment of any circuit e	onnections. Batteries b	cing charged will gener	rate and release flammable hydrogen gas.	
	ce should be ventilated. Keep battery vent caps in posit	ion. Prohibit smoking a	and avoid creation of fl	ames and sparks nearby.	
Wear face an	d eye protection when near batteries being charged.				

EnerSys.	5	SAFETY DATA S	HEET			Form #: SDS 853024 Revised: AD 01/04/19 Supersedes: AC ECO #: 1002070
III. EXPOSURE CONTROLS/		N	A State of the		10000000000	DCON. 1002010
Exposure Limits (mg/m3) Note: N	K.E.= Not Established					
NGREDIENTS Chemical/Common Names)	OSHA PEL	ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
Lead and Lead Compounds						
inorganic)	0.05	0.05	0.05	0.05	0.05	0.15 (b)
Antimony	0,5	0,5	0.5	0,5	0.5	0.5 (b,c)
Arsenic	0.01	0,01	0.002	0.2	0.01	N.E.
alcium	N.E	N.E	N.E	N.E	N.E	N.E.
l'in	2	2	2	2	2	NE
Electrolyte (Sulfuric Acid)	1	0.2	1	I	0.2	0.05(c)
olypropylene	N.E	N.E	N.E	N.E	N.E	N.E
Polystyrene	N.E	N.E	N.E	N.E	N.E	N.E
tyrene Acrylonitrile	N.E	N.E	N.E	N.E	N.E	N.E
crylonitrile Butadiene						
Styrene Styrene Butadiene	N.E	N.E	N.E	N.E	N.E	N.E
olyvinylchloride	N.E	N.E	N.E	N.E	N.E	N.E
	N.E	N.E	N.E	N.E	1	N.E
Polycarbonate, Hard						
tubber, Polyethylene	N.E	N.E	N.E	N.E	N.E	N.E
Silicon Dioxide Gel Batteries Only)	N.E					
Ger Batteries (Jity)	N,E	N.E	N.E	N.E	N.E	N.E
heet Molding Compound Glass reinforced polyester) OTES:	N.E	N.E	N.E	N.E	N.E	N.E
Handle batteries cautio clothing, eye and face p positive and negative to Respiratory Protection (NIOSH/M None required under no respiratory protection. ikin Protection: If battery case is damag	1: Il-ventilated area. If mechan waly to avoid spills. Make co protection when filling, charg erminals of the batteries. Cha 1SHA approved): ormal conditions. When con ged, use rubber or plastic acid	ical ventilation is used, ertain vent caps are on s ging or handling batterie arge the batteries in area contrations of sulfaric ac l-resistant gloves with el	components must be acid ecurely. Avoid contact w s. Do not allow metallic s with adequate ventilation cid mist are known to exc	rith internal componen materials to simultaneo on. General dilution ve ceed the PEL, use NIO	ously contact both the entilation is acceptable SH or MSHA-approv	5.
with unlimited water su	acid is handled in concentrat apply. Acid-resistant apron.	ions greater than 1%, er Under severe exposure o	emergency conditions, we	ns and showers should car acid-resistant cloth	be provided, ing and boots.	
If battery case is damag ther Protection: In areas where sulfuric with unlimited water su	acid is handled in concentral apply. Acid-resistant apron. led when adding water or ele	ions greater than 1%, er Under severe exposure o	emergency conditions, we	ns and showers should car acid-resistant cloth	be provided, ing and boots.	
If battery case is damag ther Protection: In areas where sulfuric with unlimited water sa Face shield recommend C PHYSICAL AND CHEMICAL roperties Listed Below are for El	acid is handled in concentral apply. Acid-resistant apron. led when adding water or ele L PROPERTIES	ions greater than 1%, er Under severe exposure o	emergency conditions, we	ns and showers should car acid-resistant cloth	be provided, ing and boots.	
If battery case is damag ther Protection: In areas where sulfuric with unlimited water su Face shield recommend C PHYSICAL AND CHEMICAL roperties Listed Below are for Eb Boiling Point:	acid is handled in concentral apply. Acid-resistant apron. led when adding water or ele L PROPERTIES	ions greater than 1%, er Under severe exposure o	emergency conditions, we	ear acid-resistant cloth	be provided, ing and boots. 1.215 to 1.350	
If battery case is damag ther Protection: In areas where sulfuric with unlimited water su Face shield recommend C. PHYSICAL AND CHEMICAL roperties Listed Below are for El Boiling Point: Melting Point:	acid is handled in concentral apply. Acid-resistant apron. led when adding water or ele L PROPERTIES	ions greater than 1%, er Under severe exposure e ctrolyte to batteries, was 203 - 240° F N/A	emergency conditions, we sh hands after handling.	tar acid-resistant cloth D = 1):	ing and boots.	
If battery case is damag ther Protection: In areas where sulfuric with unlimited water su Face shield recommend C. PHYSICAL AND CHEMICAL roperfies Listed Below are for El Boiling Point: Melting Point: Solubility in Water:	acid is handled in concentral apply. Acid-resistant apron. led when adding water or ele L PROPERTIES lectrolyte:	ions greater than 1%, er Under severe exposure e ctrolyte to batteries, was 203 - 240° F	smergency conditions, we sh hands after hundling. Specific Gravity (H20	tar acid-resistant cloth D = 1): Hg):	ing and boots. 1.215 to 1.350	
If battery case is damag ther Protection: In areas where sulfuric with unlimited water su Face shield recommend C. PHYSICAL AND CHEMICAL operties Listed Below are for El Boiling Point: Melting Point:	acid is handled in concentral apply. Acid-resistant apron. led when adding water or ele L PROPERTIES lectrolyte:	ions greater than 1%, er Under severe exposure e ctrolyte to batteries, was 203 - 240° F N/A	emergency conditions, we sh hands after handling. Specific Gravity (H20 Vapor Pressure (mm	D = 1): Hg): = 1):	ing and boots. 1.215 to 1.350 10	
If battery case is damag ther Protection: In areas where sulfuric with unlimited water su Face shield recommend CPHYSICAL AND CHEMICAL operfiles Listed Below are for El Boiling Point: Melting Point: Solubility in Water:	acid is handled in concentral pply. Acid-resistant apron. ted when adding water or ele L PROPERTIES fectrolyte:	ions greater than 1%, er Under severe exposure o ctrolyte to batteries, was 203 - 240° F N/A 100%	Specific Gravity (H2C Vapor Pressure (nm Vapor Density (AIR =	D = 1): Hg): = 1): :	1.215 to 1.350 10 Greater than 1 N/A	ture (as hydrosen ess)
If battery case is damag ther Protection: In areas where sulfuric with unlimited water su Face shield recommend CPHYSICAL AND CHEMICAL operfiles Listed Below are for El Boiling Point: Melting Point: Solubility in Water:	acid is handled in concentral apply. Acid-resistant apron. led when adding water or ele PROPERTIES lectrolyte: utyl Acetate = 1) pl	ions greater than 1%, er Under severe exposure e ctrolyte to batteries, was 203 - 240° F N/A 100% Less than 1	Specific Gravity (H20 Vapor Pressure (am Vapor Density (AIR = % Volatile by Weight	D = 1): Hg): = 1): :	1.215 to 1.350 10 Greater than 1 N/A	tare (as hydrogen gas)

Ene	SAFETY DATA SHEET	Form #: SDS 853024 Revised: AD 01/04/19 Supersedes: AC ECO #: 1002070
X. STABIL	ITY AND REACTIVITY	BCO #: 1002070
stability: S	iable XUnstable	
	t is stable under normal conditions at ambient temperature	
	Fo Avoid: Prolonged overcharge; sources of ignition	
Incompatib	lity: (Materials to avoid)	
	Sulfuric Acid: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing age	ints,
	metals, sulfur trioxide gas, strong oxidizers and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammal	ble
	hydrogen gas.	
	Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogenates and reducing acoust.	m
	and reducing agents.	
Inverdous	Arsenic compounds; strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsin Decomposition Products:	С,
anal dous l	Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.	
	Lead Compounds: High temperatures likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nasci	unit .
	hydrogen may generate highly toxic arsine gas.	201
	olymerization:	
	Will not occur	
L TOXICO	DOGICAL INFORMATION	A PARANCE INTE
Routes of En		and the second se
	Sulfaric Acid: Harmful by all routes of entry.	
	Lead Compounds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, va	upor .
	or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.	
nhalation:		
	Sulfurie Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.	
	Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.	
ngestion:		
	Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.	
	Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to sys	temie
	axicity and must be treated by a physician.	
kin Contact	E Sulfuric Acid: Severe irritation, burns and ulceration.	
	Lead Compounds: Not absorbed through the skin.	
ve Contact:	Arsenic Compounds: Contact may cause demotitis and skin hyper pigmentation.	
	Sulfuric Acid: Severe irritation, burns, cornea damage, and blindness.	
	Lead Components: May cause eye irritation.	
	erexposure - Acute:	
	Sulfaric Acid: Severe skin irritation, damage to comea, upper respiratory irritation.	
- i	ead Compounds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep	
	listurbances and irritability.	
	erexposure - Chronic:	
	ulfuric Acid: Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.	
1	ead Compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and	
1	emales. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abr	ormal
	onduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system	Arman
	ncephalopathy and damage to the blood-forming (hematopoietic) tissues.	oannige,
arcinogenic		
5	ulfuric Acid; The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" and	a
(proup 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric	
a	cid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse o	f the
F	roduct, such as overcharging, may result in the generation of sulfuric acid mist.	
	ead Compounds: Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 191	0.1200
	appendix F, this is approximately equivalent to GHS Category 1B. Proof of carcinogenicity in humans is lacking at present.	
A	rsenic: Arsenic is listed by IARC as a Group 1 - carcinogenic to humans. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F,	this is
0	pproximately equivalent to GHS Category 1A.	
edical Cone	litions Generally Aggravated by Exposure:	
(verexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggra	vate
	iseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologie diseases.	

EnerSys.	SAFETY DATA SHEET	Form #: Revised;	SDS 853024 AD 01/04/19
Power/Full Solutio	97%	Supersede	
Acute Toxicity:		ECO #:	1002070
Inhalation LD50:			
Electrolyte: LC50 rat: 375 m	g/m3; LC50: guinea pig: 510 mg/m3		
Elemental Lead: Acute Toxi	ity Point Estimate = 4500 ppmV (based on lead bullion)		
Elemental Arsenic: No data			
Oral LD50:			
Electrolyte; rat: 2140 mg/kg			
Elemental Lead: Acute Toxic	tity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)		
Elemental Arsenie: LD50 me			
Elemental Antimony; LD50	rat: 100 mg/kg		
Additional Health Data:			
All heavy metal	s, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion.		
Most inhalation	problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8.		
Follow good pe	rsonal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving t	the	
worksite. Keep	contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of	of food.	
tobacco and cos	metics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated area	as and	
never taken hor	ne or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated	from	
children and the	ir environment.		
The 19 th Amend	ment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction.		
Risk phrase 61:	May cause harm to the unborn child, applies to lead compounds, especially soluble forms.		
XII. ECOLOGICAL INFO			
Environmental Fate:			
Lead is very per	sistent in soil and sediments, No data on environmental degradation, Mobility of metallic lead between ecological compartments	is slow.	
Bioaccumulatio	n of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain.		
Most studies inc	lude lead compounds and not elemental lead.		
Environmental Toxicity: Ac	matic Toxicity:		
Sulfuric acid:	24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L		
	96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L		
Lead:	48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion		
Arsenic:	24 hr LC50, freshwater fish (Carrassisus auratus) >5000 g/L.		
Additional Information:			
	cts on stratospheric ozone depletion.		
-	c compounds: 0% (by Volume)		
and the local division of the local division	ering Class (WGK): NA SRATIONS (UNITED STATES)		
Spent batteries: Send to see	and any lead smelter for recycling. Spent lead-acid batteries are not regulated as hazardous waste when the requirements of		
40 CER Section 266 80 are m	et. This should be managed in accordance with approved local, state and federal requirements. Consult state environmental		
agency and/or federal EPA.	c. This should be managed in accordance with approved local, state and rederal requirements. Consult state environmental		
Electrolyte:			
	caled containers and handle as applicable with state and federal regulations. Large water-diluted spills, after		
neutralization and testing the	suld be managed in accordance with approved local, state and federal requirements. Consult state environmental		
agency and/or federal EPA.	and or manages in association with approved room, since any reactist requirements. Consult state environmental		
Following local. State/Proving	ial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.		
and only room	and the contract regulations upper and the contract of an end of the contract		

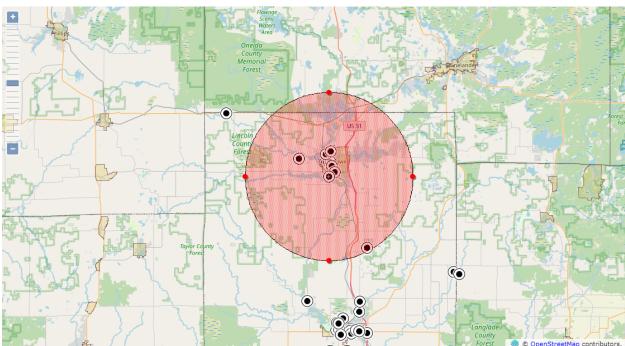
EnerSys.	SAF	ETY DATA SHEE	т	Form #: SDS 853024 Revised: AD 01/04/19 Supersedes: AC ECO #: 1002070			
XIV: TRANSPORT INFORMATION	Fight and the second second	Real moders					
	nsportation/s HMR. Batte	ery and outer package mi	meet the requirements of 49 CFR 173.159(f) and ust be marked "NONSPILLABLE" or "NONSPIL				
the International Air Transport	tangerous Goods Regulations DGR: Excepted from the dangerous goods regulations because the batteries meet the requirements of Packing Instruction 872 and Special Provisions A67 of the International Air Transportation Association (IATA) Dangerous goods Regulations and International Civil Aviation Organization (ICAO) Technical Instructions. Battery Terminals must be protected against short circuits.						
The words * NOT RESTRICT	ED" , SPECIAL PROVISI	ION A67" must be provi	ded on an airway bill when air waybill is issued.				
International Maritime Danger			batteries meet the requirements of Special Provis at be protected against short circuits.	ion 238 of the			
XV. REGULATORY INFORMATION							
UNITED STATES: EPA SARA Title III:							
Section 302 EPCRA Extremely Hazardous : Sulfuric acid is a listed "Extrer EPCRA Section 302 notificati 40 CFR Part 355, The quantity	mely Hazardous Substanc on is required if 1000 lbs y of sulfuric acid will vary	or more of sulfuric acid	Threshold Planning Quantity (TPQ) of 1,000 lbs. is present at one site (40 CFR 370,10). For more i your EnerSys representative for additional inform	information consult			
Section 304 CERCLA Hazardous Substance							
Reportable Quantity (RQ) for :			fund) and State and local reportable quantities for spilled st	16			
present in quantities of 10,000			if sulfuric acid is present in quantities of 500 lbs R 370.10 and 40 CFR 370.40.	or more and/or if lead is			
toxic chemical present in such determining the amount of rele	article when determining ase to be reported under !	whether an applicable to § 372.30. This exemption	covered facility, a person is not required to consi treshold has been met under § 372.25, § 372.27, n applies whether the person received the article is quantity of the toxic chemical present in the article	or § 372.28 or from another person			
	and the second sec	the second secon	fection 313 Toxic Chemical Release Inventory (F information is provided to enable you to complet				
Tr	oxic Chemical	CAS Number	Approximate % by Wt.				
	Lead	7439-92-1	60				
(Sulfuric	Electrolyte Acid (H2SO4/H2O))	7664-93-9	10 - 30				
	* Antimony	7440-36-0	2				
	* Arsenic	7440-38-2	0,2				
See 40 CRG Part 370 for more	Tin. details.	7440-31-5	0.2				
If you distribute this product to of each calendar year.	If you distribute this product to other manufacturers in SIC Codes 20 through 39, this information must be provided with the first shipment of each calendar year.						
The Section 313 supplier notif	ication requirement does	not apply to batteries, w	nich are "consumer products".				
 Not present in all battery typ 	es. Contact your EnerSys	s representative for addit	ional information.				

Ene	SAFETY DATA SHEET	Form #: SDS 853024 Revised: AD 01/04/19 Supersedes: AC ECO #: 1002070
TSCA:	TSCA Section 8b - Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.	
	TSCA Section 12b (40 CFR Part 707.60(b)) No notice of export will be required for articles, except PCB articles, unless the Agency so requires context of individual section 5, 6, or 7 actions.	in the
	TSCA Section 13 (40 CFR Part 707,20): No import certification required (EPA 305-B-99-001, June 1999, Introduction to the Chemical Import Requirements of the Toxic Substances Control Act, Section IV.A).	
RCRA:	Spent Lead Acid Batteries are subject to streamlined handling requirements when managed in compliance with 40 CFR section 266.80 or 40 CF Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).	R part 273.
CAA:	EnerSys supports preventative actions concerning ozone depletion in the atmosphere due to emissions of CFC's and other ozone depleting chemicals (ODC's), defined by the USEPA as Class I substances. Pursuant to Section 611of the Clean Air Act Amendments (CAAA) of 1990, finalized on January 19, 1993, EnerSys established a policy to eliminate the use of Class I ODC's prior to the May 15, 1993 deadline.	
STATE RI	EGULATIONS (US): <u>Proposition 65:</u> Warning: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. Wash hands after handli	
INTERNA	ATIONAL REGULATIONS: Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).	
	Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.	
	Article 33 (1) of the REACH regulation (Reg. EC 1907/2006), which entered into force on 1st of June 2007 in the European Union, requires that manufacturers communicate the presence of Substances of Very High Concern (SVHC) in articles (lead batteries) in concentration greater than (weight.	
	Effective the 27 th of June 2018, the European Chemical Agency (ECHA) updated the Candidate List with the inclusion of Lead Metal (CAS No.: 7439-92-1). This inclusion of Lead as an SVHC applies to all of EnerSys Lead based battery products regardless of the design (Flooded, Gel, AGM, etc).	
	ter information AD 01/04/19	
NFPA Haz	Flammability (Red) = 0 Reactivity (Yellow) = 2	
DISCLAIN	Health (Blue) = 3 Sulfuric acid is water-reactive if concentrated.	
This Safety the manufa	NER / Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law, cturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or ges, arising out of the use of, or reliance on, this Safety Data Sheet.	

Attachment F

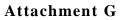
Vulnerability Zone Maps for Ammonia (Aqueous)

A. Worst Case Scenario



B. Re-evaluation Scenario









WP145 Dam

© OpenStreetMap contributors.

Lincoln County: Local Emergency Planning Committee (LEPC)



EMERGENCY MANAGEMENT



2023 Off Site Plan: Samuel, Son & Company (USA) Inc.

Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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Atta	chment G, Vulnerability Zone for Sulferic Acid

I. Facility Information

A. Samuel, Son & Company (USA) Inc.

- 1. Address: 1119 A Bridge Street, Highway CC, Tomahawk, WI 54487
- 2. Phone: (715) 453-5326
- 3. Facility ID # (Assigned by WEM): 91786

II. Facility Emergency Contacts

A. Tier II Contact:

- 1. Name: Mark Loka
- 2. Position: EP/GRACO Supervisor
- 3. Office Phone: (715) 453-5326 ext. 12434
- 4. Emergency Phone: 715-612-3060
- 5. Email: mark.loka@samuel.com

B. Tier II Emergency Coordinator:

- 1. Name: Mike Winkler
- 2. Position: EHS Manager
- 3. Office Phone: (715) 735-9311 ext. 12426
- 4. Emergency Phone: (715) 701-6441
- 5. Email: mike.winkler@samuel.com

III. Extremely Hazardous Substances (EHS)

A. EHS Chemicals OVER Threshold Planning Quantity (TPQ)

CAS #	Chemical Name	Maximum Daily Quantity (lbs.)	Max. Amount. of Largest Container (lbs.)	Vulnerability Zone (miles)
7697-37-2	Nitric Acid	1,691	900	0.2 miles
7664-93-9	Sulfuric Acid	3,950	3,950	< 0.1 miles

IV. Primary Emergency Responders

A. Lincoln County Sheriff's Office

1. Phone: 911 or (715) 563-6272

B. Lincoln County Emergency Communications Center

1. Phone: 911 or (715) 563-6272

C. Lincoln County Emergency Management

1. Phone: (715) 218-0128

D. Tomahawk Fire Department

1. Phone: 911 or (715) 453-8180

E. Tomahawk Police Department

1. Phone: 911 or (715) 453-2121

V. Support Available at Facility

A. Chemical Emergency Monitoring Equipment:

1. None

B. Personal Protective Equipment:

1. None

C. Other Equipment or Supplies:

1. None

D. Outside Resources Available:

- 1. Lincoln County Emergency Management
 - a) Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

- 2. Chemtrec: (800) 424-9300
 - a) Unknown response time
- 3. National Response Center: (800) 424-8802
 - a) Unknown response time
- 4. REI—Spill & Response Recovery: (800) 734-7745
 - a) Unknown response time

VI. General information and Assumptions (Disclaimer)

The vulnerability zones set forth in this plan are based on the Environmental Protection Agency's (EPA) Technical Guidance for Hazard Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of an EHS occur.

A re-evaluation scenario with more realistic parameters has also been computed. Parameters used for both scenarios have been described as part of the hazard analysis summary.

CAMEO Suite software was used in the preparation of vulnerability zones. It should be noted that CAMEO*fm* cannot compute zones greater than 10 miles nor less than 0.1 miles. Thus, results that fall into these situations will be notes as "> 10 miles" or "< 0.1 miles".

The field Incident Commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst case vulnerability zone identified herein.

VII. Hazard Analysis Summary

A. Greatest Potential for Release

- 1. Nitric acid is in the electropolishing and waste water pre-treatment room where the chemicals are stored. The room is engineered to containerize all spills and keep them from entering the sanitary sewer or getting outside. The room is engineered to be closed off, including vents over the processes. Production is stable throughout the year.
- 2. Sulfuric acid is no longer shipped to the facility as a "stand alone" chemical and therefore no longer mixed on-site. Rather is incorporated in a pre-mixed chemical called Northland Electropolish where by weight percentage is only 23.8% sulfuric acid. Therefore, greatly decreasing the risk of hazard. It is unlikely that this chemical release would have off site consequences. Spills would be contained inside the building except perhaps in a fire situation.

B. Vulnerability Zones (by chemical)

Nitric Acid: CAS #7697-37-2					
Amount Released:	90	00 lbs.			
Concentration:	64	%			
Physical State:	Lie	quid (Ambient)			
Diked Area: No		lo			
Level of Concern (LOC):	0.0	0.026 gm/m ³			
LOC Type:	Gr	Greenbook LOC			
Worst Case Scenario		Re-Evaluation Scenario			
Duration:		10 minutes	Duration	10 minutes	
Wind Speed:		3.4 mph	Wind Speed:	11.9 mph	
Ground Roughness:		Rural	Ground Roughness:	Urban	
Atmospheric Stability Clas	s:	F	Atmospheric Stability Class:	D	
Risk:		Low	Risk:	Low	
Consequences:		Low	Consequences:	Low	
Overall Risk:		Low	Overall Risk:	Low	
Threat Zone Radius:		0.2 miles	Threat Zone Radius:	< 0.1 miles	

Sulfuric Acid: CAS #7664-93-9					
Amount Released:	3,9	950 lbs.			
Concentration:	23	.8%			
Physical State:	Lie	quid (Ambient)			
Diked Area:	No)			
Level of Concern (LOC):	0.0	0.008 gm/m ³			
LOC Type: Greenbook LOC					
Worst Case Scenario			Re-Evaluation Scenario		
Duration:		10 minutes	Duration	10 minutes	
Wind Speed:		3.4 mph	Wind Speed:	11.9 mph	
Ground Roughness:		Rural	Ground Roughness:	Urban	
Atmospheric Stability Class:		F	Atmospheric Stability Class:	D	
Risk:		Low	Risk:	Low	
Consequences:		Low	Consequences:	Low	
Overall Risk:		Low	Overall Risk:	Low	
Threat Zone Radius:		< 0.1 miles	Threat Zone Radius:	< 0.1 miles	

C. Estimation of Population Affected

1. Nitric Acid

- a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would be 40 employees and no other populations or facilities affected.
- b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance would be 40 employees or less and no other populations or facilities affected.
- c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
- d) Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.
- 2. Sulfuric Acid
 - a) In the credible worst case scenario the total number of persons that could be affected by a release of the extremely hazardous substance would be less than 10 employees and no other populations or facilities affected.
 - b) In the re-evaluation scenario the total number of persons that could be affected by a release of the extremely hazardous substance would be 10 employees and no other populations or facilities affected.
 - c) Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.
 - d) Experience indicates that no shelter, isolation, or evacuation would have to take place in conjunction with this extremely hazardous chemical.

D. Critical Infrastructure

a) None affected

VIII. Population Protection

The determination to shelter in-place or to evacuate will be made by the on-scene commander as appropriate. The lead time for a hazardous materials incident may be very short. As a result, there may not be time enough for safe evacuation, especially when extremely toxic chemical fumes are involved. An evacuation under these considerations may expose the population to dangerous toxic chemicals and the decision may be made to shelter-in-place. Preferred areas for protective sheltering would be interior hallways, rooms on the side of the building away from where the hazard is approaching. Doors, windows, and other potential air leaks should be sealed up to prevent toxic fumes from entering.

Experience indicates that shelter space would need to be provided for only 30% of the population within the initial isolation and evacuation zones and the remaining 70% would seek shelter with family and friends outside the risk zone.

Roles and responsibilities relative to evacuation and sheltering may be found in the Lincoln County Emergency Operations Plan.

A. None

X. Distribution List

- Samuel, Son & Company (USA) Inc.
- Tomahawk Fire Department
- Wisconsin Emergency Management Northeast Regional Office
- Oneida County Sheriff Office Hazardous Materials Response Team
- Wausau Wisconsin Hazardous Response Team
- Oneida County Emergency Management

XI. Supporting Documentation

A. Attachments

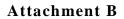
- 1. Attachment A, Record of Change and Review
- 2. Attachment B, Facility Layout and Site Information
- 3. Attachment C, Transportation Route Map
- 4. Attachment D, Safety Data Sheet for Nitric Acid
- 5. Attachment E, Safety Data Sheet for Sulfuric Acid
- 6. Attachment F, Vulnerability Zone Map for Nitric Acid
- 7. Attachment G, Vulnerability Zone Map for Sulfuric Acid

Attachment A

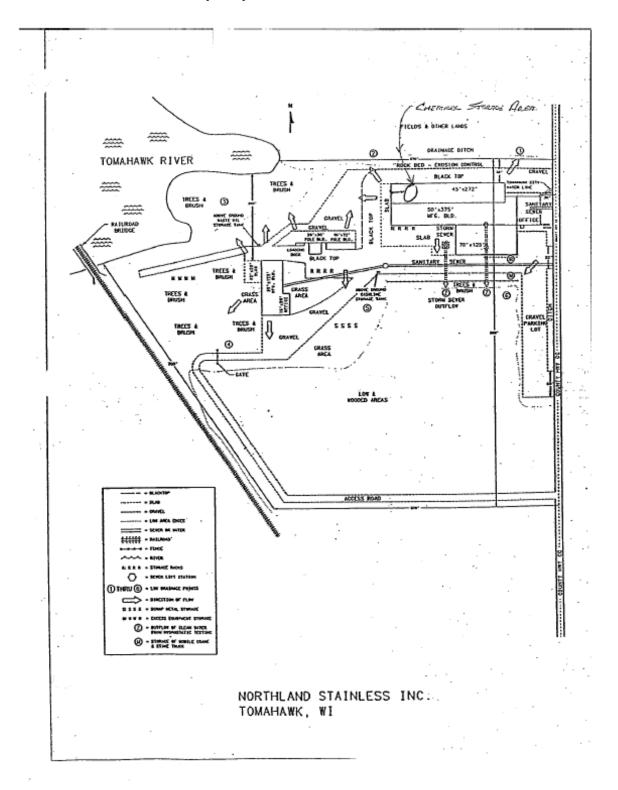
Date	Contributor	Description of Change	Page Number(s)
12-8-2023	T. Verhasselt and P. Maguire	Authored plan and reviewed with Samuel, Son & Company (USA) Inc. for accuracy. Nitric acid computations were altered due to chemical weight percent changing from 100% to 64%. Sulfuric acid computations were altered due to facility changing to a pre-mix and chemical weight by percent changed from 100% to 23.8%. Updated SDS' for both EHS.	

Record of Change/ Review /Signature

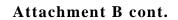
Please see EPCRA Hazardous Materials Off-Site Plan Transmittal Form for approval and signatures.



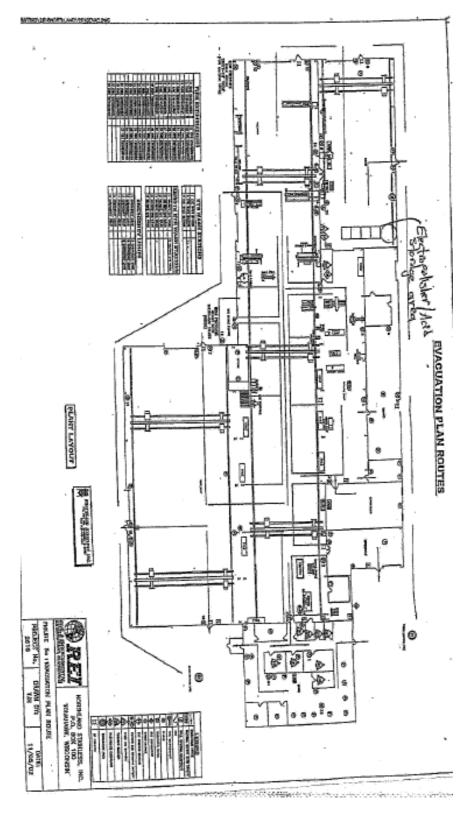
Facility Layout and Site Information



2023 Off Site Plan: Samuel, Son & Company (USA) Inc.



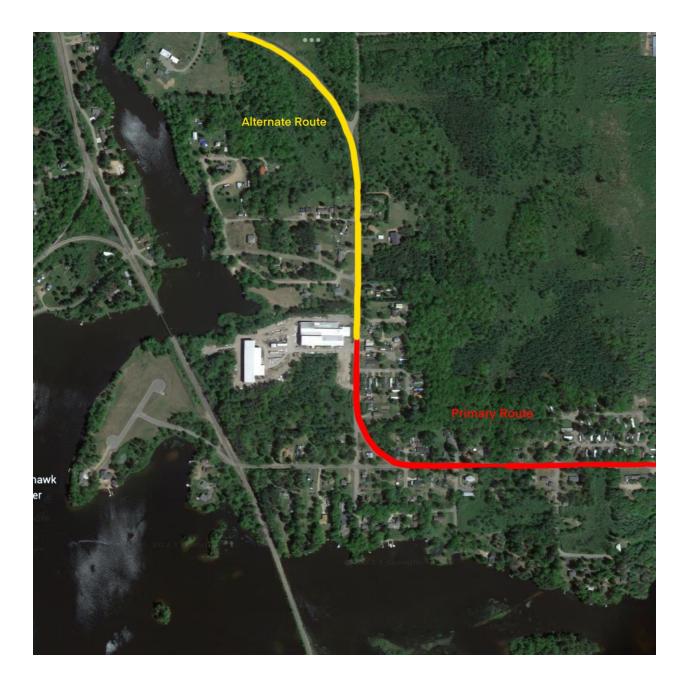
Facility Layout and Site Information



2023 Off Site Plan: Samuel, Son & Company (USA) Inc.

Attachment C

Transportation Route Map



Attachment D

Safety Data Sheet for Nitric Acid

Wausau Chemical Corporation Safety Data Sheet



	Nitric Acid-64% (41 °Baum	e)	
1. Product and Company	-	,	
Product Name	Nitric Acid-64% (41 °Baume)	NFPA diamond and HMIS	
Synonyms	Aqua fortis, azotic acid	ratings for this product may	
MSDS Number	D13536	be found in section 16 of this Safety Data Sheet.	
Company Identification	Wausau Chemical Corporation		
Company identification	2001 North River Drive		
	Wausau, WI 54403		
Telephone	Wausau Chemical Corporation - 715.842.2285		
	CHEMTREC - 800.424.9300		
2. Hazards Identification			
Form	Liquid		
Color	Colorless to light yellow		
Odor	Pungent, irritating		
OSHA/HCS Status	Material is considered hazardous by the OSHA Haza	rd Communication Standard	
	(29 CFR 1910.1200); corrosive, target organ effect (li		
GHS Classification	Oxidizing liquids (Category 3)		
	Skin corrosion (Category 1A)		
	Serious eye damage (Category 1)		
Pictogram			
Signal Word	Danger		
Hazard Statement(s)			
H272	May intensify fire; oxidizer.		
H314	Causes severe skin burns and eye damage.		
Precautionary Statement(s)			
P210	Keep away from heat.		
P220	Keep/Store away from clothing/ combustible material		
P221 P264	Take any precaution to avoid mixing with combustible Wash skin thoroughly after handling.	PS.	
P280	Wear protective gloves/ protective clothing/ eve prote	ction/face protection	
P301 + P330 + P331			
P303 + P361 + P353			
P304 + P340	IF INHALED: Remove victim to fresh air and keep at breathing.	rest in a position comfortable for	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several in present and easy to do. Continue rinsing.	ninutes. Remove contact lenses, if	
P310	Immediately call a POISON CENTER or doctor/physi	cian.	
P363	Wash contaminated clothing before reuse.		
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-	resistant foam for extinction.	
P405	Store locked up.	discound start	
P501	Dispose of contents/ container to an approved waste	disposal plant.	

Safety Data Sheet for Nitric Acid

Wausau Chemical Corporation	
Safety Data Sheet	



Potential Acute Health Effects

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion	Harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin burns.
Eyes	Causes severe eye burns.

See section 11 for more detailed information on health effects and symptoms

3. Composition/Information on Ingredients		
Ingredient Name	CAS Number	<u>WT %</u>
Nitric Acid	7697-37-2	64-65
Water	7732-18-5	35-36

4. First Aid Measures	
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Protection of First Aid Personnel	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wear gloves while removing contaminated clothing. If it is suspected that dust, vapor, mist, or gas is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

5. Fire-fighting Measure	S
Flammability of the Product	Not flammable or combustible
Flash Point (Method)	None
Auto Ignition Temperature	None
Extinguishing Media	
Suitable	Flooding quantities of water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
Special Fire-fighting Procedures & Hazards	Do not use solid water spray near ruptured tanks or spills. Water may react with acid and cause splattering. Wear chemical protective clothing and positive pressure self-contained breathing apparatus. Approach upwind to avoid toxic vapors.
Unusual Fire & Explosion Hazards	Nitrogen oxides could be present from vented or ruptured tanks. If water stream is added, considerable heat could be generated and splattering could occur.
6. Accidental Release M	Measures
Personal Precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Spill

Safety Data Sheet for Nitric Acid

Wausau Chemical Corporation Safety Data Sheet	Č

7. Handling and Stora	ige			
Handling	Avoid contact with skin an	d eyes. Avoid inhalation of vapor or mist.		
Storage	Keep containers tightly clo	sed in a dry and well-ventilated area.		
 Exposure Controls/ 	Personal Protection			
Ingredient Name	ACGIH TLV	OSHA PEL		
Nitric Acid	2 ppm – TWA	2 ppm – TWA		
Engineering Measures		or other engineering controls are normally required when luct to avoid overexposure. Maintain adequate ventilation. Keep ts.		
Hygiene Measures	Handle in accordance with before breaks and at the e	good industrial hygiene and safety practice. Wash hands nd of workday.		
Respiratory	respirator with multi-purpo cartridges as a backup to	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.		
Eyes and Face		es. Faceshield (8-Inch minimum). Use equipment for eye oved under appropriate government standards.		
Skin		gainst chemicals. The type of protective equipment must be concentration and amount of the dangerous substance at the		

9. Physical and Chemical Properties

Appearance	Colorless to light yellow liquid
Odor	Pungent, irritating
pH	Less than 1
Water Solubility	100%
Vapor Density (air = 1)	Not applicable
Evaporation rate (butyl acetate = 1)	Not applicable
Boiling Point (°F)	244 °F (117.8 °C)
Freezing Point (°F)	-44 °F (-42.2 °C)
Specific Gravity (H ₂ 0 = 1 @ 70 °F)	1.380
Vapor Pressure (mm Hg, 20 °C)	Less than 1
Volatile Organic (VOC) Content	Not applicable

10. Stability and Reactivity						
Stable:	х	Unstable:	Hazardous Polymerization:	Occurs:	Does Not Occur:	х
Conditions to Avoid		bid	None known			
Materials to Avoid		1	Most metals, metallic powders, carbides, h combustibles, organics, and readily oxidize		rpentine, organic acids,	
Decomposition Products		roducts	Nitrogen oxides and possible hydrogen.			

Safety Data Sheet for Nitric Acid

Wausau Chemical (Safety Data Sheet	Corporation
1. Toxicological Info	rmation
iye	Causes severe eye burns.
Nitric Acid	Eyes – no data available
ermal	May be harmful if absorbed through skin. Causes skin burns.
Nitric Acid	Dermal LD50 – no data available
	Skin corrosion/irritation: rabbit – extremely corrosive and destructive to tissue (Draize Test)
halation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Nitric Acid	Inhalation LC50 – no data available
)ral	Harmful if swallowed.
Nitric Acid	Oral LD50 – human – 430 mg/kg
otential Chronic Healt	h Effects
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.
futagenicity	No data available
eratogenicity	No data available
ertility Effects	Reproductive toxicity - rat - Oral
	Effects on Newborn: Biochemical and metabolic.
	Developmental Toxicity - rat – Oral
	Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Over-exposure Signs/Symptoms

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may provoke the following symptoms: spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, pneumonitis, pulmonary edema. Symptoms and signs of poisoning are: burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, pulmonary edema. Effects may be delayed., Large doses may cause: conversion of hemoglobin to methemoglobin, producing cyanosis, marked fall in blood pressure, leading to collapse, coma, and possibly death.

Biodegradability	No data available		
Ecotoxicity Toxicity to fish: LC50 - Asterias rubens - 100 - 330 mg/l - 48 h			
13. Disposal Considerations			
Waste Disposal	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.		
RCRA	No component of this product is listed as a hazardous waste.		

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

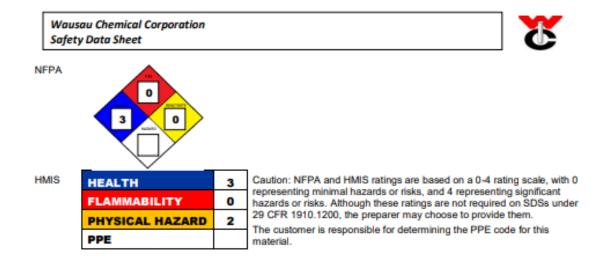
Safety Data Sheet for Nitric Acid

Shipments (Tank Trucks/Rail Cars e e e e e e e e e mergency release reporting and/or SARA Title III (40 CFR Part 35 om federal requirements. Consult es under these laws. bs. g levels established by SARA Title III, g levels established by SARA Title III, g levels established by SARA Title III, g levels established by SARA Title III,		
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levels established by SARA Title III, 311 as hazardous substances requirin		
311 as hazardous substances requirin		
application to EPA. Nitric Acid		
All components of this product are listed as "Active" on the Toxic Substances Control Act (TSCA) 8(b) Inventory.		
regulations do not apply unless the ermining hazardous wastes. Note: If the r to determine whether the material of disposal.		
RTK Substances: The following components are listed: Nitric Acid (CAS #7697-37-2)		
RTK Substances: The following components are listed: Nitric Acid (CAS #7697-37-2)		
listed: Nitric Acid (CAS #7697-37-2)		
Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.		
e		

Date of Issue

08/03/2015 | 8/19/2019 -updated TSCA statement, section 15 (RP)

Safety Data Sheet for Nitric Acid



Notice to Reader

The information contained herein is given in good faith, but no warranty, representation, inducement, or license of any kind is made, except that the information is accurate to the best of Wausau Chemical Corporation's knowledge, or is obtained from sources believed by Wausau Chemical Corporation to be reliable and accurate. Wausau Chemical Corporation does not assume any legal responsibility for use or reliance upon the information being furnished. Customers are encouraged to conduct their own tests. Before using any product, read the container label directions, as well as, the Safety Data Sheet.

Attachment E

Safety Data Sheet for Sulfuric Acid

Wausau Chemical Corporation Safety Data Sheet

Northland Electropolish



2. Hazards Identification

2. Hazards identification		
Form	Liquid	
Color	Clear, Colorless	
Odor	Pungent	
OSHA/HCS Status	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200): corrosive	
GHS Classification	Corrosive to metals (Category 1)	
	Skin corrosion (Category 1A)	
	Serious eye damage (Category 1)	
Pictogram		
Signal Word	Danger	
Hazard Statement(s)		
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
Precautionary Statement(s)		
P234	Keep only in original container.	
P260	Do not breathe mists/fumes.	
P264	Wash skin thoroughly after handling.	
P280	Wear protective glove/ protective clothing/ eye protection/ face protection.	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.	
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.	
P363	Wash contaminated clothing before reuse.	
P390	Absorb spillage to prevent material damage.	
P405	Store locked up.	
P501	Dispose of contents/ container to an approved waste disposal plant.	
Potential Acute Health Effec	ts	

Safety Data Sheet for Sulfuric Acid

Wausau Chemical Corporation Safety Data Sheet				
Inhalation	If mists or sprays of this solution are inhaled, this product may cause pulmonary irritation, irritation of the mucus membranes, coughing, and a sore throat.			
Ingestion	If swallowed, burning and irritation of the mouth, throat, esophagus, and other tissues of the digestive system will occur immediately upon contact.			
Skin	Contact with the skin can cause seve	are irritation, skin burns	and permanent skin damage	
Eyes	Contact with the eyes can cause severe irritation, eye burns and permanent eye damage.			
See section 11 for more det	ailed information on health effects a	nd symptoms		
3. Composition/Informat	ion on Ingredients			
ngredient Name	<u>c</u>	AS Number	WT %	
Sulfuric Acid	70	64-93-9	23.8	
Phosphoric Acid	70	64-38-2	63.2	
Water	7732-18-5 Balance			
4. First Aid Measures				
Eye Contact	Rinse thoroughly with plenty of wate Continue rinsing eyes during transpo		s and consult a physician.	
Skin Contact	Take off contaminated closing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.			
Inhalation	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.			
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.			
Protection of First Aid Personnel	No action shall be taken involving any personal risk or without suitable training. If it is suspected that dust, vapor, mist, or gas are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.			
5. Fire-fighting Measure	S			
Flammability of the Product	Not flammable or combustible			
Flash Point	Not applicable			
Auto Ignition Temperature	Not applicable			
Extinguishing Media				
Suitable	Dry chemical, carbon dioxide, alcoho	l resistant foam, or hal	ion.	
Not Suitable	Water spray.			
Special Fire-fighting Procedures & Hazards	Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. If possible, prevent run- off water from entering storm drains, bodies of water, or other environmentally sensitive areas.			
Unusual Fire & Explosion Hazards	This product is corrosive and presents a significant contact hazard to fire-fighters. For large fires, flood fire area from a distance. Expect a reaction with water. Do not let solid stream of water contact spilled materials. When involved in a fire, the material may decompose and produce irritating fumes and toxic gases (including carbon monoxide, carbon dioxide, and oxides of sulfur).			
6. Accidental Release M	easures			
	rsonal Precautions Use personal protective equipment. Avoid breathing vapor, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.			

Safety Data Sheet for Sulfuric Acid

Wausau Chemical Corporation Safety Data Sheet				
Environmental Precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.				
Spill Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Neutralize residue with lime or soda ash or oth acid neutralizing agent. Decontaminate the spill area thoroughly.				
7. Handling and Storage				
Handling	Avoid inhalation of vapor	d inhalation of vapor or mist. Use in a well-ventilated area.		
Storage		not be handled in metal containers. Keep container tightly closed in a dry and well- ilated place. Containers which are opened must be carefully resealed and kept upright event leakage.		
8. Exposure Controls/P	ersonal Protection			
Ingredient Name	ACGIH TLV	OSHA PEL		
Sulfuric Acid	0.2 mg/m ³ - TWA	1 mg/m ³ - TWA		
Phosphoric Acid	1 mg/m ³ - TWA	1 mg/m ³ - TWA		
Engineering Measures	Use mechanical ventilation such as dilution and local exhaust. Supply ample air replacement.			
Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Wash has before breaks and immediately after handling the product.				
Respiratory	If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection. If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134).			
Eyes and Face	Tightly fitting safety goggles. Face shield (8 inch minimum).			
Skin	Wear chemically impervious gloves. Glove must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.			
9. Physical and Chemic	al Properties			
Appearance	Clear, colorles	s liquid		
Odor	Pungent			
pН	Less than 1	Less than 1		
Water Solubility	Complete	Complete		
Vapor Density (air = 1)	No data availa	No data available		
Evaporation rate (butyl aceta	te = 1) No data availa	No data available		
Boiling Point	No data availa	ble		
Freezing Point	No data availa	No data available		
Specific Gravity (@ 70 °F)	1.730	1.730		
Vapor Pressure	No data availa	No data available		
Volatile Organic (VOC) Conte	ant Not applicable			

Does Not Occur: X

Safety Data Sheet for Sulfuric Acid

Conditions to Avoid		Avoid exposure or contact to extreme temperatures and incompatible chemicals.			
Materials to Avoid		The product reacts with bases, reducing agents, alkali metals, carbides, cyanides, sulfide, and metal powders. Do not mix this product with sodium hypochlorite, sodium bisulfite, chlorine sanitizers, or chlorinated cleaners – a deadly gas can be formed.			
Decom	position Products	Thermal decomposition products of the solution can include carbon monoxide, carbon dioxide, and oxides of sulfur.			
11. To	xicological Informat	ion			
Eye		Contact with the eyes can cause severe irritation, eye burns and permanent eye damage			
	Sulfuric Acid	Serious eye damage/eye irritation: Rabbit – severe eye irritation			
	Phosphoric Acid	Eyes – no data available			
Derma	I	Contact with the skin can cause severe irritation, skin burns and permanent skin damage Prolonged exposure may result in ulcerating burns which could leave scars.			
	Sulfuric Acid	Dermal LD50 – no data available Skin corrosion/irritation: Rabbit – extremely corrosive and destructive to tissue Human – mild skin irritation			
	Phosphoric Acid	Dermal LD50 – no data available			
Inhalat	ion Sulfuric Acid	Skin corrosion/irritation: no data available If mists or sprays of this solution are inhaled, this product may cause pulmonary irritation irritation of the mucus membranes, coughing, and a sore throat. Inhalation of high concentrations of this product may cause damage to the tissues of the respiratory system producing potentially fatal lung disorders (chemical pneumonitis and pulmonary edema) and erosion of the tooth enamel.			
		Inhalation LC50 – rat – 510 mg/m ³ – 2 hr.			
Oral	Phosphoric Acid	Inhalation LC50 – no data available If swallowed, burning and irritation of the mouth, throat, esophagus, and other tissues of the digestive system will occur immediately upon contact. Ingestion of large quantities may be fatal.			
	Sulfuric Acid	Oral LD50 – rat – 2140 mg/kg			
	Phosphoric Acid	Oral LD50 – no data available			
Chroni	c Effects				
	Carcinogenicity	IARC: Group 1: Carcinogenic to humans (strong inorganic-acid mists containing sulfuric acid)			
	Mutagenicity	No data available			
	Reproductive toxicity	No data available			
Sign ar Exposi	nd Symptoms of ure	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract along with eyes and skin. Signs/symptoms of exposure may include: spasm, inflammation and edema of the larynx; spasm, inflammation and edema of the bronchi; pneumonitis; pulmonary edema; burning sensation; cough; wheezing; laryngitis; shortness of breath; headache; nausea; vomiting. Effects may be delayed.			

12. Ecological Information			
Biodegradability	No data available		
Ecotoxicity	Toxicity to fish:		
	LC50 – Gambusia affinis (mosquito fish) – 42 mg/l – 96 hr. (sulfuric acid)		

Safety Data Sheet for Sulfuric Acid

Wausau Chemical Corpo Safety Data Sheet	pration	<u>s</u>
	Toxicity to aquatic invertebrates: EC50 – Daphnia magna (water flea) – 29 mg/l – 24 h (sulfuric ac	id)
3. Disposal Consideratio	ns	
/aste Disposal	Offer surplus and non-recyclable solutions to a licensed disposal compar licensed professional waste disposal service to dispose of this material.	ny. Contact a
CRA	The RCRA waste code of D002 (corrosive waste) should be assigned in between the user, the producer, and the waste disposal company.	discussion

14. Transportation

13.Di Waste

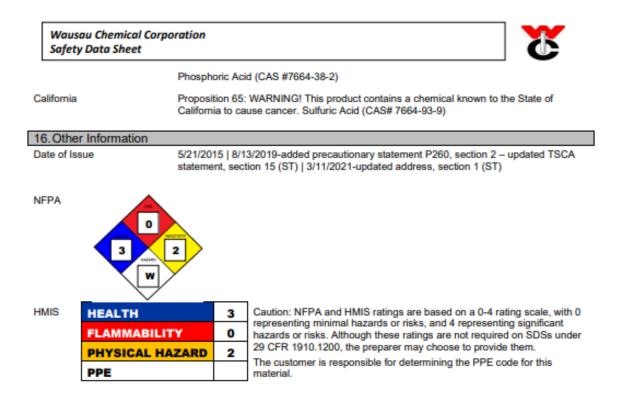
RCRA

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

US DOT 49 CFR 172.101	Non-bulk Shipments (Drums/Totes)	Bulk Shipments (Tank Trucks/Rail Cars)
Proper Shipping Name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfuric Acid, Phosphoric Acid)	Same
Hazard Class	8	Same
Identification Number	UN3264	Same
Packing Group	н	Same
Reportable Quantities	Not applicable	Same
Placards/Labels	Corrosive	Same

15. Regulatory Informatio	n
CERCLA / SARA Emergency Reporting SARA Title III Section 313	A spill or release of this material may trigger the emergency release reporting requirements under CERCLA (40 CFR Part 300) and/or SARA Title III (40 CFR Part 355). State or local reporting requirements may differ from federal requirements. Consult counsel for further guidance on your responsibilities under these laws. Sulfuric Acid CERCLA Reporting Quantity – 1000 lbs. Phosphoric Acid CERCLA Reporting Quantity – 5000 lbs. This material is not listed for required reporting.
Clean Water Act (CWA) Section 311	The following chemicals are listed under Section 311 as hazardous substances requiring the submission of a National Pollutant Discharge Elimination System (NPDES) permit application to EPA. Sulfuric Acid Phosphoric Acid
TSCA – Toxic Substances Control Act	All components of this product are listed as "Active" on the Toxic Substances Control Act (TSCA) 8(b) Inventory.
RCRA – Resource Conservation and Recovery Act	The requirements of the federal hazardous waste regulations do not apply unless the waste fails to pass any of EPA's four tests for determining hazardous wastes. Note: If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.
	Waste Code D002 - Corrosivity
State Regulations	
Massachusetts	RTK Substances: The following components are listed: Sulfuric Acid (CAS# 7664-93-9), Phosphoric Acid (CAS #7664-38-2)
New Jersey	RTK Substances: The following components are listed: Sulfuric Acid (CAS# 7664-93-9), Phosphoric Acid (CAS #7664-38-2)
Pennsylvania	RTK Substances: The following components are listed: Sulfuric Acid (CAS# 7664-93-9),

Safety Data Sheet for Sulfuric Acid



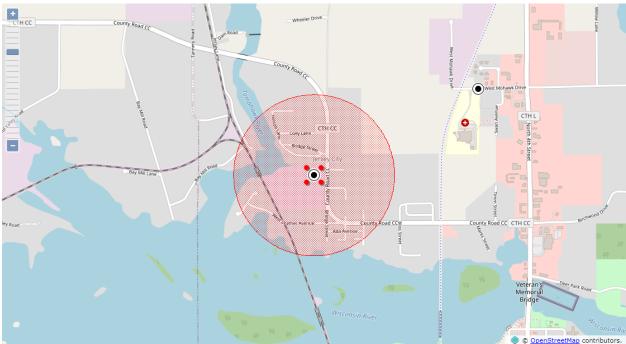
Notice to Reader

The information contained herein is given in good faith, but no warranty, representation, inducement, or license of any kind is made, except that the information is accurate to the best of Wausau Chemical Corporation's knowledge, or is obtained from sources believed by Wausau Chemical Corporation to be reliable and accurate. Wausau Chemical Corporation does not assume any legal responsibility for use or reliance upon the information being furnished. Customers are encouraged to conduct their own tests. Before using any product, read the container label directions, as well as, the Safety Data Sheet.



Vulnerability Zone Maps for Nitric Acid

A. Worst Case Scenario



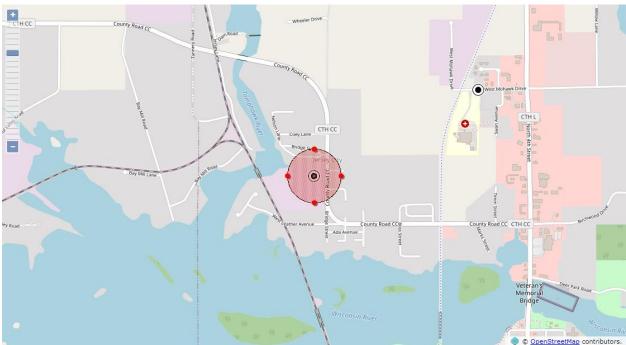
B. Re-evaluation Scenario



Attachment G

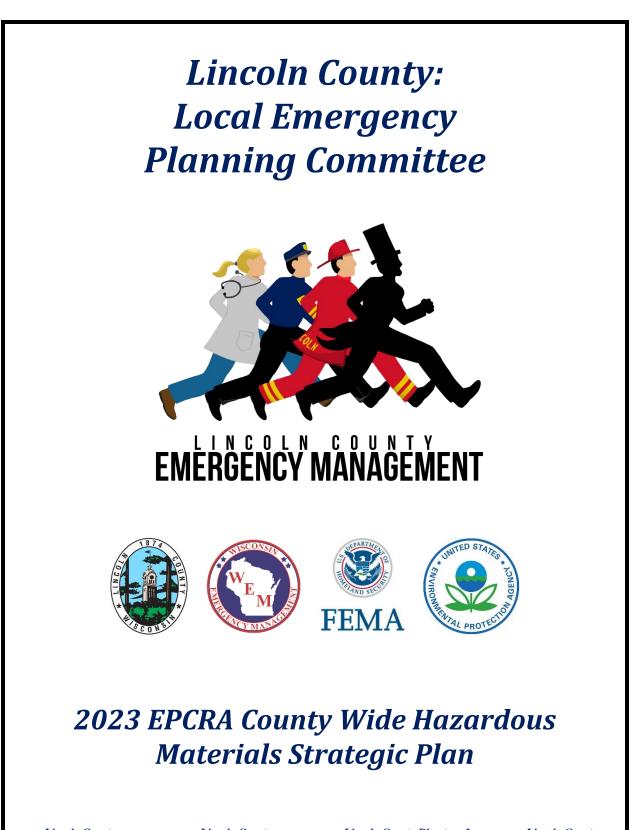
Vulnerability Zone Maps for Sulfuric Acid

C. Worst Case Scenario



D. Re-evaluation Scenario





Lincoln County Board of Supervisors Chair Don Friske Lincoln County Administrative Coordinator Renee Krueger Lincoln County Director of Emergency Management Tyler Verhasselt Lincoln County LEPC Chair Richard Burns This page intentionally left blank.

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I. Introduction

A. Purpose

- The purpose of this plan is to develop policies and procedures for responding to hazardous
 materials incidents and/or accidents in compliance with the requirements of Title III of
 Emergency Planning Community Right to Know Act (EPCRA) (SARA) of 1986, as codified in
 42 USC 11000 to 11050 and s. 323.60(1)(e), Wis. Stats., in order to protect the community from
 the harmful and possibly life threatening effects of a hazardous materials release.
- 2. This plan defines the roles, responsibilities, and inter-organizational relations of government and private organizations in response to a hazardous material incident and includes requirements or the development/update of the Strategic Plan.
- 3. This plan was adopted by the Lincoln County Board of Supervisors and is considered an extension of the county's Emergency Operations Plan (EOP) in reference to hazardous materials, including but not limited to, extremely hazardous substances (EHS). Please refer to Attachment 1, *Promulgation Statement*.

B. Responsibilities

1. Local Emergency Planning Committee:

Name	Group	Date	Position
Richard Burns	4	Aug. '22	Chair
Elizabeth McCrank	1	July '22	Vice Chair
Tyler Verhasselt	1	Aug. '23	Coordinator of Information
Chris Marlowe	1	Aug. '23	Secretary
Michael Caylor	2	Aug. '22	Compliance Inspector
Josh Klug	2	July '22	Member
Cheryl Skoug	4	Aug. '22	Member
Jennifer Gartmann	3	Nov. '23	Member
James Kelly	5	Nov. '23	Member

a) Current LEPC committee members:

- b) Assist in development, updating, reviewing, and publishing of the *EPCRA County Wide Hazardous Materials Strategic Plan* and *Off Site Facility Plans* in collaboration with Lincoln County Emergency Management on an annual basis.
- c) Ensure county wide hazardous material exercises are conducted as required.
- d) Review the submittal of facility off site plans as they are submitted by Tier II reporting facilities.
- e) Publish, annually, a notice in the local media that the County Wide Hazardous Strategic Plan, safety data sheets of extremely hazardous substances, and inventory sheets have been submitted under Section 324 of Title III, and are available for public inspection.
- f) Provide information to the public as required in Section 312 of Title III.
- g) Receive and maintain copies of EPCRA reports.
- h) The LEPC and the Emergency Management Director make the determinations along with the Tier II Facility Coordinators, necessary to implement the *EPCRA County Wide Hazardous Materials Strategic Plan*.

- 2. Lincoln County Emergency Management:
 - a) Responsibilities and coordination are covered in the Lincoln County Emergency Operations Plan.
- 3. Facilities:
 - a) Planning requirements:
 - (1) Any facility that produces, uses, or stores any of the extremely hazardous substances (EHS) in quantities equal to or greater than threshold planning quantities (TPQ) are required to participate in the emergency planning process.
 - b) Reporting requirements:
 - (1) An owner/operator of a facility subject to the provisions of EPCRA Sections 311/312 must comply under the requirements of Wis. Stat. 323.60(5)(c).
 - (2) \Employees and agents of facilities are obligated to comply with the provisions for the discharge (release or spill) of a hazardous substance as required under the state hazardous spill law, Wis. Stat. 292.11.

II.Hazard Analysis

A. County Profile

- 1. Locations
 - a) Lincoln County is located in northcentral Wisconsin. The largest urban areas are the City of Merrill, located along the Wisconsin River in the southcentral portion of the County, and the City of Tomahawk, located along the Wisconsin River in the northcentral portion of the county. There are also several unincorporated hamlets. The County is bounded on the north by Oneida County, on the east by Langlade County, on the south by Marathon County, and on the west by Taylor and Price Counties.
 - b) Lincoln County lies approximately:
 - (1) 110 miles northwest of Green Bay
 - (2) 118 miles northwest of the Fox Valley
 - (3) 210 miles northwest of Milwaukee
 - (4) 15 miles north of Wausau
 - (5) 7 miles south of Rhinelander
 - (6) 167 miles north of Madison
 - (7) 185 miles northeast of La Crosse
- 2. Civil Divisions
 - a) There are eighteen (18) municipalities (16 towns, City of Merrill, and City of Tomahawk) in the Lincoln County planning area. These units of government provide the basic structure of the decision-making framework. The County has a total surface area of 907 square miles, of which 3.1% is water. The area and proportion of the County within each civil division are presented in Table 1.

Table 1.1: Geographical Size by Municipality				
Municipality	Total Area*	Water Area*	Land Area*	Area as % of County
Birch, Town of	36.11	047	35.64	4.0%
Bradley, Town of	63.03	8.24	54.79	7.0%
Corning, Town of	146.43	0.25	146.19	16.1%
Harding, Town of	72.84	1.45	71.39	8.0%
Harrison, Town of	72.33	3.38	68.95	8.0%
King, Town of	36.93	3.43	33.5	4.1%
Merrill, Town of	53.19	1.58	51.61	5.9%
Merrill, City of	8.09	0.57	7.52	0.9%
Pine River, Town of	63.98	0.53	63.45	7.1%
Rock Falls, Town of	49.17	1.49	47.68	5.4%
Russell, Town of	36.33	0.54	35.79	4.0%
Schley, Town of	48.36	0.21	48.15	5.3%
Scott, Town of	30.73	0.56	30.17	3.4%
Skanawan, Town of	35.89	0.59	35.31	4.0%
Somo, Town of	35.29	0.14	36.16	4.0%
Tomahawk, Town of	71.63	1.73	69.9	7.9%
Tomahawk, City of	9.46	1.58	7.88	1.3%
Wilson, Town of	36.22	1.29	34.92	4.0%
Total	907	28.03	878.97	100%
*Area in square miles Source: US Census				

3. Topography

- a) Lincoln County is in the northern highland physiographic region of Wisconsin. This region has some of the highest elevations in the state. Elevations in the county range from about 1,910 feet above sea level just east of Ament Lake in the northeast to about 1,220 feet above sea level at the point where the Wisconsin River leaves the county. Merrill is about 1,300 feet above sea level and Tomahawk, respectively, 1,450 feet.
- b) The physiography, relief and drainage of the county are primarily the result of glaciation. They are modified by ridges of hard bedrock in the southern part of the county. The landscape is very diverse. Moraines, eskers, kames, ice-contact lake basins, and drift-mantled ridges and hills of bedrock are generally in the highest positions on the landscape. These landforms are interspersed with lower areas of outwash plans, drumlins, lake plains, and bogs and other depression areas where organic soils have formed.
- c) The most prominent physiographic feature is the broad belt of end moraine that extends across the county from the northeastern apart to the south central and then through the west central area. This end moraine area has the highest elevations and the roughest terrain in the county.

- 4. Climate
 - a) Winters in Lincoln County are very cold, while summers are short but fairly warm. The short frost-freeze period limits the production of crops. An annual average of 126.9 days had a snow depth equal to or greater than 0.1 inches. The prevailing wind is from the southwest with average wind speed is highest in spring at 12 miles per hour. Precipitation is fairly well distributed through the year, reaching peak in summer, and snow covers the ground during much of the period from late fall through early spring.
 - b) In winter, the average temperature is 15 degrees Fahrenheit with the average daily minimum at 4 degrees. The lowest temperature on record was -48 degrees in Merrill in January of 1909. Soils usually freeze to depth ranging from a few inches up to one foot but occasionally can freeze to several feet when cold temperatures occur before appreciable snow cover. IN summer, the average temperature is 66 degrees and the average daily maximum temperature is 79 degrees. The highest recorded temperature was 110 degrees in July 1936.
 - c) Average total annual precipitation is 33.6 inches. Of this about 70% usually falls in April through September. The heaviest one-day rainfall on record occurred in Merrill was 11.25 inches over July 23 through the 24 of 1912. Thunderstorms occur on about 34 days each year. Average seasonal snowfall is about 53 inches with 108.2 inches being the greatest total on record which occurred in 2019. The highest one-day snowfall on record was 21.2 inches on January 6, 1929 in Merrill.
- 5. Demographic and Economic Profile
 - a) Population and Households
 - (1) The 2020 US Census for Lincoln County shows a population of 28,414 people (See Table 2.2). This represents a 1.14 percent *decrease* from the 2010 Census reported population of 28,743 people. This is in contract to relatively strong growth in neighboring counties like tourism and retirement driven Oneida and urban/commercial center Marathon, which parallel the overall state of growth rate. However, the slightly declining trend is in line with other adjacent counties more similar in character to Lincoln like Langlade, Price, and Taylor. If this growth trend continues at the current level, there will be approximately 28,091 people in Lincoln County in 2030 and 27,771 people in 2040.
 - (2) Population concentrations and trends are important when prioritizing hazard mitigation strategies. Approximately 28 percent of the population is classified by the most recent census as urban while 62 percent is rural. The City of Merrill is the most densely populated and developed area in the county. Other areas of population concentrations are the City of Tomahawk; waterfront development in the Towns of Harrison, King, Bradley, Wilson, Merrill, and Harding; and the unincorporated hamlets of Gleason, Bloomville, and Irma. Overall population density of the county is about 31.3 persons per square mile and ranges from a high of 1,155 in the City of Merrill to a low of 3.4 persons per square mile in the Town of Somo.

Table 2.1: Population of Lincoln and Adjacent Counties				
County	2010	2020	Change	% of Change
Lincoln	28,743	28,415	-328	-1.14%
Langlade	19,977	19,491	-486	-2.43%
Marathon	134,063	138,013	3,950	2.95%
Oneida	35,998	37,845	1,847	5.13%
Price	14,159	14,054	-105	-0.74&
Taylor	20,689	19,913	-776	-3.75%
State of Wisconsin	5,686,986	5,893,718	206,732	3.64%
Source: US Census				

(3) Between 2010 and 2020, about half of the communities within Lincoln County have experienced a slight to moderate decrease in their population base, while the other half generally saw slight to moderate increases (Read Table 2.1 and Table 2.2). The highest level of growth occurred in the Town of King with a 12.7 percent increase between 2010 and 2020. The growth rate in King also yielded the highest total number of actual residents added with 109. The City of Merrill lost the most residents which yielded a decline of 314 people but the largest percentage decrease occurred in the Town of Corning with -6.6%.

Table 2.1: Population of Civil Divisions				
Municipality	2010 Population	2020 Population	% change in Population	
Birch, Town of	594	570	-4.0%	
Bradley, Town of	2,408	2,382	-1.1%	
Corning, Town of	883	825	-6.6%	
Harding, Town of	372	364	-2.2%	
Harrison, Town of	833	828	-0.6%	
King, Town of	855	964	12.7%	
Merrill, Town of	2,980	2,881	-3.3%	
Merrill, City of	9,661	9,347	-3.3%	
Pine River, Town of	1,869	1,874	0.3%	
Rock Falls, Town of	618	635	2.8%	
Russell, Town of	677	693	2.4%	
Schley, Town of	934	950	1.7%	
Scott, Town of	1,432	1,377	-3.8%	
Skanawan, Town of	391	386	-1.3%	
Somo, Town of	114	123	7.9%	
Tomahawk, Town of	416	458	10.1%	
Tomahawk, City of	3,397	3,441	1.3%	
Wilson, Town of	309	317	2.6%	
Total	28,743	28,415	-1.1%	
Source: US Census				

- (4) The growth in households continues to outpace the growth in population, reflecting aging population and on-going decline in persons per household. The Town of Birch increased 26.5 percent, for a net addition of 50 households. The City of Merrill added the highest number of actual households with 222. There were exceptions to household growth, with the percent of households decreasing in the Towns of Pine River, Russell, Schley, Somo, Wilson, and the City of Tomahawk.
- (5) According to the most recent census the average age in Lincoln County is 47.9 or 8.3 years older than the state average of 39.6 years. About 27 percent of the population is 62 years and over while only 18 percent is under 18.

Table 2.2: Households of Civil Divisions			
Municipality	2010 Households	2020 Households	% change in Households
Birch, Town of	189	239	26.5%
Bradley, Town of	1,089	1,113	2.2%
Corning, Town of	330	391	18.5%
Harding, Town of	140	148	5.7%
Harrison, Town of	356	374	5.1%
King, Town of	373	432	15.8%
Merrill, Town of	1,204	1,396	15.9%
Merrill, City of	4,175	4,397	5.3%
Pine River, Town of	754	749	-0.7%
Rock Falls, Town of	266	309	16.2%
Russell, Town of	276	269	-2.5%
Schley, Town of	378	372	-1.6%
Scott, Town of	537	623	16.0%
Skanawan, Town of	165	150	-9.1%
Somo, Town of	52	35	-32.7%
Tomahawk, Town of	193	206	6.7%
Tomahawk, City of	1,480	1,319	-10.9%
Wilson, Town of	137	132	-3.6%
Total	12,094	12,654	4.6%
Source: US Census			

- b) Seasonal Population
 - (1) In addition to the regular full-time resident population, the impact of seasonal population cannot be overlooked when planning for hazards. Although not as significant as in neighboring Oneida County, 20.8 percent of Lincoln's housing stock has been identified as season or recreational. Roughly 22 percent of the county's seasonal housing units are located in the Town of Bradley. There are also significant units in the Towns of Harrison (16.3 percent) and King (12 percent). Determining when and for how these seasonal residents will be in the county is problematic (Read Table 2.3).
 - (2) Another component of the seasonal population includes short-term accommodations such as campgrounds or hotel-style lodging. According to the Wisconsin Department of Natural Resources (DNR), Lincoln County has 713 hotel/motel beds, 28 bed and breakfast beds, and 76 other types of beds available around the county. Additionally, the

Wisconsin DNR identified 574 campsites in various campgrounds across the county; as well as, educational and/or recreational camps with a capacity of 406 individuals. Short term, special event attendance can result in a major influx of population in a given localized area and present unique problems in a disaster situation (e.g. Tomahawk Fall Ride bringing in approximately 30,000 persons).

Table 2.3: Estimated Seasonal Resident Populations				
Municipality	2020 Seasonal Housing Units	2020 Seasonal Population		
Birch, Town of	35	83		
Bradley, Town of	794	1,699		
Corning, Town of	141	298		
Harding, Town of	131	322		
Harrison, Town of	585	1,295		
King, Town of	432	964		
Merrill, Town of	74	153		
Merrill, City of	57	121		
Pine River, Town of	38	95		
Rock Falls, Town of	168	345		
Russell, Town of	79	204		
Schley, Town of	32	82		
Scott, Town of	31	69		
Skanawan, Town of	138	355		
Somo, Town of	71	250		
Tomahawk, Town of	256	569		
Tomahawk, City of	188	490		
Wilson, Town of	338	812		
Total	3,588	8,057		
Source: US Census				

6. Land Use

- a) Forestry and Agriculture
 - (1) The dominant land-use in Lincoln County is forestry. Land area is approximately 81 percent forested, comprised of approximately 469,494 acres of woodland. Agricultural land covers another 9.1 percent of the county's land area, which is mostly located on previously forested tracts that were cleared by early settlers. Dairy, beef, cash crops, ginseng, strawberries, cranberries, apples and maple syrup make up the core of what Lincoln County farmers produce off the land. A short growing season, irregular topography, and relatively poor soil productivity, limits most of the agricultural production to the southern portions of the county.

- b) Commercial and Industrial Development
 - (1) Commercial and industrial development makes up only about 0.5 percent of the total county area. Such land use is mostly located in and around the two cities of Merrill and Tomahawk. There are three (3) designated industrial parks in the county; one in each of the cities and one (1) in the Town of Merrill. Other industrial sites are located in the Town of Bradley. Commercial activity is also located in the cities of Merrill and Tomahawk and the towns of Bradley and Merrill. These areas serve as sub-regional service hubs supported by the surrounding forestry and agricultural business industry. Commercial activity in the unincorporated areas is primarily dominated by private commercial recreation. However, some rural centers act as mini-service hubs with notable commercial and industrial development.
- c) Residential Development
 - (1) Land in residential development makes up approximately 2.2 percent of the total county area. Residential concentrations are scattered throughout the county. Much of the scattered rural development is related to direct recreational demand as various types of housing have clustered along streams and lakes.
 - (2) There are a number of mobile home parks in the county which create a special consideration. According to the census, there were about 996 mobile homes in 2020. This is about 6 percent of housing units for the county compared to about 3.4 percent for the entire state. This is significant due to their condensed populations in case of hazardous materials incidents and vulnerability to tornados.
- d) Surface Water
 - (1) Lincoln County is located in the Upper Wisconsin River drainage basin. There are thirteen (13) watersheds within the county, with seven (7) major tributaries: Somo, Spirit, New Wood, Copper, Pine, Prairie, and Tomahawk Rivers all flowing into the Wisconsin River, which generally bisects the county from north to south.
 - (2) The total surface water area of lakes and streams in Lincoln County contains approximately 17,370 acres. More than half of the county's 500 plus lakes are artificial impoundments on the Wisconsin River. Lake Mohawksin is the largest of these lakes at 1,909 acres. Over 86 percent of the lakes are less than ten (10) acres, while only 3 percent are over 100 acres.
 - (3) Within the watersheds, there are 246 interior rivers and streams covering about 668 miles. All the streams, like the lakes, are important in the hydrological and ecological regime and should be protect by shoreline zoning and physical protective measures. The 285 foot drop of the Wisconsin River is moderated by six (6) water control structures, which help to control flooding.
- e) Other Land Cover and Uses
 - (1) Recreational lands including parks and outdoor sports facilities total about 891 acres of 0.2 percent of the county area. Other lands may have recreational aspects, particularly woodlands. Governmental, public and institutional lands total about 0.1 percent of the county area. Open lands cover about 15,151 acres or 2.6 percent of the county area. These include grasslands, scrub, and other barren lands.
- 7. Public Facilities and Services
 - a) Transportation
 - (1) Two (2) major US Highways, US 8 and US 51 serve Lincoln County. US 8 runs an eastwest arc through the extreme northern portion of the county. While US 51 runs a north to south course through the center of the county. US 51 is a four lane, divided highway that links the county to Interstate 39 in Marathon County.

- (2) Four (4) state highways access Lincoln County. Highways 64 and 86 run east west paths. Highway 86 is in the northern half of the county through Tomahawk, while Highway 64 serves the southern half which runs through the City of Merrill. Highway 107 moves north south connecting Merrill and Tomahawk. Highway 17 cuts a northeasterly track through the southeast corner of the county. These highways link the county with neighboring communities and are vital to the county's tourism and recreational-based economy.
- (3) Networks of county trunk highways collect traffic from rural land uses. These county highways serve an important role in linking the area's agricultural and timber resources to the county's two (2) cities. Local roads provide access to local development, farming, and forestry areas; as well as, the county's recreational lake areas.
- (4) The US, State, and county highways in Lincoln County include a large network of bridges owned by the federal, state, county, and local governments. The majority of the State bridges are under/over passes along US 51. The county system contains the majority of bridges in the area.
- b) Utilities
 - (1) The City of Merrill and Tomahawk provide municipal water supplies for domestic and commercial use, while Lincoln Hills School provides water for their students.
 - (2) Three (3) municipal wastewater treatment facilities serve Lincoln County. The cities of Merrill and Tomahawk, along with the Gleason area in the Town of Russell all have wastewater treatment facilities.
 - (3) Wisconsin Public Service (WPS) provides Lincoln County with electric service throughout the county. As of 2001, an independent company, American Transmission Company (ATC) LLC, owns, maintains, and operates the major transmission facilities located in the State of Wisconsin, including Lincoln County.
 - (4) Frontier is the primary provider of landline telephone service in the county.
 - (5) The ANR pipeline is the main source of natural gas in the county. A segment of the pipeline traverses the county north south between Merrill and Tomahawk. A spur line to serve the City of Antigo in Langlade County branches off the main north south line near the Marathon County line and lies just inside Lincoln County.
- c) Emergency Services and Facilities
 - (1) There are a number of service providers that serve the municipalities of Lincoln County. The cities of Merrill and Tomahawk, the towns of Russell, Corning, and Pine River offer fire services to the county. The Merrill Fire Department is the only one that provides full-time service while the remainder of the departments relies on volunteers for fire service.
 - (2) Additionally, there are emergency medical service (EMS) and first responders providers in the county. The towns of Russell and Pine River provide first responders, while Merrill and Tomahawk provide EMS.
 - (3) The Lincoln County Sheriff's Office provides law enforcement service to all the towns and cities within Lincoln County. The cities of Merrill and Tomahawk also have law enforcement agencies within their respective jurisdictions. The two (2) correctional facilities within the county include Lincoln County Jail in Merrill and Lincoln Hills School, a state facility for troubled youth near Irma.

B. EPCRA Planning Facilities

In accordance with EPCRA Section 302 any facility which houses extremely hazardous substances (EHS) over the threshold planning quantity qualifies as a "planning facility". See facility-specific off site plans for more comprehensive information regarding EHS chemical, facility layout/site information, response information and vulnerability zone maps.

Table 3.1:	Table 3.1: Lincoln County Planning Facilities				
WEM ID #	Facility Name	Address			
Town of R	kussell				
9159	Packaging Corporation of America	N9090 County Road East Tomahawk, WI 54487			
City of Mo	errill				
60969	City of Merrill—Wastewater	2606 Sturdevant Street Merrill, WI 54452			
34879	Frontier	1000 East Main Street Merrill, WI 54452			
197616	Interflex Group	1401 West Taylor Street Merrill, WI 54452			
201888	Mitchell Metal Products	905 South State Street Merrill, WI 54452			
139083	Northern Wire, LLC.	1100 West Taylor Street Merrill, WI 54452			
200498	Walmart 1366	505 South Pine Ridge Avenue Merrill, WI 54452			
City of Tomahawk					
5268	Frontier	312 West Wisconsin Avenue Tomahawk, WI 54487			
91786	Samuel, Son & Company (USA) Inc.	1119 A Bridge Street, Hwy CC Tomahawk, WI 54487			

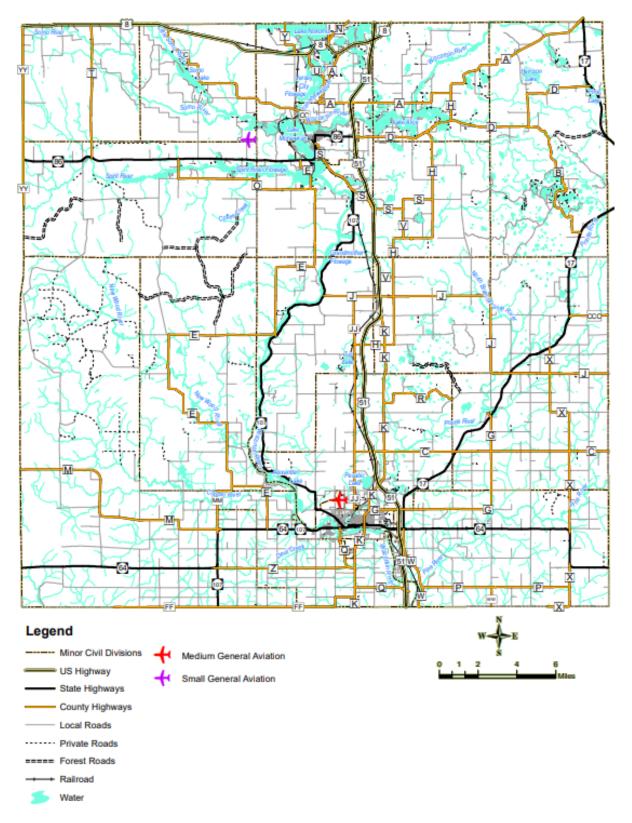
C. Tier II Facilities

Table 3.1:	Table 3.1: Lincoln County Planning Facilities				
WEM ID #	Facility Name	Address			
181725	Merrill Propane Plant	W4999 Highway Q Merrill, WI 54452			
198364	Merrill Bulk Facility	N3159 County Road K Merrill, WI 54452			
202057	American Asphalt	W5231 Herb Mitchell Road Irma, WI 54452			
196506	Aspirus (Tomahawk)	401 West Mohawk Drive Tomahawk, WI 54487			
60969	City of Merrill—Wastewater	2606 Sturdevant Street Merrill, WI 54452			
81638	Copper Lake Lincoln Hills	W4380 Copper Lake Avenue Irma, WI 54452			
203313	Council Grounds State Park	N1895 Council Grounds Merrill, WI 54452			
200047	County Materials Corporation (Merrill)	496 Brandenberg Avenue Merrill, WI 54452			
200056	County Materials Corporation (Tomahawk)	407 South Tomahawk Avenue Tomahawk, WI 54487			
38095	Ferrellgas	526 Spirit Avenue Tomahawk, WI 54487			
202734	France Propane Service, Inc.	N334 Tree Lane Merrill, WI 54452			
34879	Frontier (Merrill)	1000 East Main Street Merrill, WI 54452			
5268	Frontier (Tomahawk)	312 West Wisconsin Avenue Tomahawk, WI 54487			
199779	Frontline Building Products Inc.	301 North Foster Street Merrill, WI 54452			
97857	Gasco	W5334 Park Avenue Merrill, WI 54452			
200433	Good Samaritan Hospital	601 South Center Avenue Merrill, WI 54452			
199865	Good Samaritan Hospital	601 South Center Avenue Merrill, WI 54452			
114760	Harley Davidson Motor Company	426 East Somo Avenue Tomahawk, WI 54487			
195183	Harley Davidson Motor Company	611 Kaphaem Road Tomahawk, WI 54487			

99506	Hilgy's LP Gas, Inc.	122 North Railway Street Tomahawk, WI 54487
100393	Hot Plant	Everson Pit, Theis Road Rhinelander, WI 54501
97364	Insight FS	401 South Park Street Merrill, WI 54409
197616	Interflex Group	1401 Taylor Street Merrill, WI 54452
195161	J.W. Perry Inc.	W1455 Scott Road Merrill, WI 54452
200766	L&L Propane—Merrill Plant	574 Southgate Drive Tomahawk, WI 54487
75641	Lincoln County Highway Department (Tomahawk)	574 Southgate Drive Tomahawk, WI 54487
75677	Lincoln County Highway Department (Merrill)	100 Cooper Street Merrill, WI 54452
192023	Lincoln Wood Products	905 West 3 rd Street Merrill, WI 54452
203090	Lincoln Wood Products	1400 West Taylor Street Merrill, WI 54452
127212	Louisiana-Pacific Tomahawk Mill	927 Southgate PO Box 190 Tomahawk, WI 54487
199381	Marshfield Clinic Remodel	1205 O'Day Street Merrill, WI 54452
36968	Merrill City Garage	315 East First Street Merrill, WI 54452
200132	Merrill Fire Station	427 East Second Street Merrill, WI 54452
30419	Merrill Manufacturing Corporation	236 South Genessee Merrill, WI 54452
201888	Mitchel Metal Products	905 South State Street Merrill, WI 54452
202973	Lincoln Hills School	W4380 Copper Lake Avenue Irma, WI 54452
139083	Northern Wire LLC.	1100 West Taylor Street Merrill, WI 54452
9159	Packaging Corporation of America	N9090 County Road E Tomahawk, WI 54487
202485	Ritchie Lakeland Oil	Highway G Merrill, WI 54452
91786	Samuel, Son & Company (USA) Inc.	1119 A Bridge Street Hwy CC Tomahawk, WI 54487
21157	Semling-Menke Company, Inc.	400 South Keys Street Merrill, WI 54482

152281	Trierweiler Construction Supply Company Inc. (Batch Plant)	Unknown location according to WHOPRS
203160	Take 5 Oil Change	3450 East Main Street Merrill, WI 54452
195116	Tomahawk Regional Airport	W7350 South River Road Tomahawk, WI 54487
202279	Tomahawk Terminal Company	517 West Somo Avenue Tomahawk, WI 54487
195195	Tripoli Propane	W11069 US Highway 8 Tripoli, WI 54564
200498	Walmart 1366	505 South Pine Ridge Avenue Merrill, WI 54452

D. Transportation Map



E. Most Common EHSs at Fixed Facilities

Table 4.1: Most Common EHS in Lincoln County			
CAS #	EHS Name	Amount in Pounds	
7782-50-5	Chlorine	1,350 lbs.	
7697-37-2	Nitric Acid	1.691 lbs.	
1336-21-6	Ammonia (Aqueous)	58,000 lbs.	
7664-93-9	Sulfuric Acid	5,360 lbs.	
7664-93-9	Sulfuric Acid (Battery Acid)	48,369 lbs	

F. Most Common EHS and Tier II Chemicals Transported through Lincoln County

- 1. There are approximately five (5) EHS' located in nine (9) facilities throughout Lincoln County. These substances range in quantity from 900-62,000 pounds per facility.
- 2. There are approximately 67 hazardous substances located in fixed facilities throughout Lincoln County. These substances range in quantity from 875-12,000,000 pounds per facility.
- 3. It is assumed that exposure to all transported hazardous substances in Lincoln County will be the result of road, rail, and air transportation and pipeline delivery. Furthermore, it is assumed that the largest over-the-road container does not carry more than 69,000 pounds of product during transportation.
- 4. There are unknown amount of different EHS' transported annually throughout Lincoln County but the potential exists for the transport of any EHS listed on the United States Environmental Protection Agency's List of Lists of the Department of Labor's Occupational Safety and Health Administration's Toxic and Hazardous Substances List. These substances are transported in containers that range from 10 ounce agricultural packages to 196,000 pounds of rail car quantities.

III. Notification

A. A Reportable Release Has Occurred

- 1. The County will receive initial notification that a release has occurred from one or more of the following:
 - a) State of Wisconsin Spill Hotline SERTS Report
 - b) National Response Center (NRC)
 - c) From the Facility
 - d) 911
 - e) Citizen Report
 - f) Other

B. Incident Reporting

1. The State of Wisconsin spill hotline staff receives the notification of a hazardous substance discharge (spill or release), acquires available information, and documents the release in a Spills

Electronic Report Tracking System (SERTS) report sent to the county (See Attachment C for an example).

- 2. Spill report information is attached to this plan as Attachment I in order to provide a spill history for the EPCRA County Wide Hazardous Materials Strategic Plan purposes.
- 3. Alert, Warning and Emergency Public Information
 - a) Alert procedures are covered in the Lincoln County Emergency Operations Plan
- 4. Communications
 - a) Communication procedures are covered in the Lincoln County Emergency Operations Plan.
- 5. Reporting Requirements for a SARA Title III Release
 - a) Coordinator for Information the LEPC must be notified of any spills or releases subject to the notification requirements of EPCRA Section 304.
 - b) WEM and the Wisconsin Department of Natural Resources must be notified of a spill or release per the requirements of Wis. Stat. 292.11 and 323.60(5)(b).
 - c) The owner or operator shall provide written follow-up emergency notice as soon as possible after a release that requires notice under EPCRA Section 304(a).

IV. Identification of Major Transportation Route

See Transportation Map on Page 17

V. Evacuation/Shelter Procedures

Evacuation/Shelter Procedures are covered in the Lincoln County Emergency Operations Plan

VI. Resource Management

Resource Management is covered in the Lincoln County Emergency Operations Plan. Resources specific to a hazardous materials incident are listed below:

A. County Resources

1. Lincoln County has response elements and resources in place with the ability to meet emergency response needs as referenced in Attachment D.

B. State Resources

- 1. Wisconsin Department of Natural Resources (WDNR) 24 hour Spill Hotline (800) 943-0003
- 2. Wisconsin Department of Agriculture, Trade and Consumer Protection (WDATCP) (800) 422-7128
- Wisconsin Department of Health Services (WDHS) (608) 226-1865

- Wisconsin State Laboratory of Hygiene (800) 862-1013—Clinical Laboratory (800) 442-4618—Environmental Laboratory
- Wisconsin Department of Military Affairs—54th Civil Support Team (608) 245-8430

C. Federal Assistance

- 1. National Response Center (NRC) (800) 424-8802 <u>http://nrc.uscg.mil/</u>
- Agency for Toxic Substances and Disease Registry (888) 422-8737 www.atsdr.cdc.gov/
- Nuclear Regulatory Commission (391_816-5100 www.nrc.gov/
- 4. CHEMTREC (800) 424-9300

VII. Response Procedures

A. Direction and Control

1. Direction and Control procedures are covered in the Lincoln County Emergency Operations Plan.

B. Emergency Action Checklists

1. Emergency Action Checklists are referenced in the Lincoln County Emergency Operations Plan.

C. Individual Agency Plans

1. Individual agency plans which address specific elements such as chain of command, support systems, containment and decontamination procedures, standard operating procedures (SOP), etc. should exist at each facility.

VIII. Clean-up, Documentation, and Investigative Follow-up

A. Wisconsin Department of Natural Resources Responsibilities:

- 1. Responsibly for Wisconsin Department of Natural Resources is in accordance with Wis. Stat. 292.11 and Administrative Code NR 706 for follow-up on reported releases and spills.
- 2. WDNR field staff may respond through WDNR regional offices. WDNR region personnel perform a variety of duties:
 - a) Investigate spills
 - b) Ensure that the responsible party restores the damaged environment to its original state
 - c) Oversee proper disposal
 - d) Select and supervise contractors for emergency investigation and clean-up

- e) Provide data to process enforcement actions and reimbursement billings
- f) Maintain spill response equipment
- 3. In most instances, the responsible party and local authorities handle a spill quickly and competently. In these cases, the WDNR investigates the incident and ensures that clean-up is accomplished. When the Department becomes involved in spill; clean-up, WDNR field staff act as project managers, reviewing investigation results and oversees selection of clean-up measures.

IX. Training

A. Training

1. Training procedures are covered in the Lincoln County Emergency Operations Plan.

B. WEM Sponsored Training

 A list of courses sponsored by Wisconsin Emergency Management can be found at the State of Wisconsin Training Management System at the following link: https://www.trainingwisconsin.org/

X. Exercises

A. Exercises

1. Exercises will be scheduled and conducted annually per EPCRA requirements.

XI. Distribution Record

This plan is available in WHOPRS, which fulfills the minimum distribution requirements, with additional copies available upon request.

XII. Record of Changes

Date	Contributor	Description of Change	Page Number(s)
12-8-2023	T. Verhasselt		

Promulgation Statement for County Wide Strategic Plan

This plan is adopted as the EPCRA County Wide Hazardous Materials Strategic Plan for incidents involving use, storage or manufacture, and transportation of hazardous materials and/or Level "I, II, or III" emergency response team identification and coverage. It is designed to comply with all applicable federal and state regulations, and provides the policies and procedures to be followed in dealing with such incidents.

This plan supersedes all other Lincoln County plans for response to a hazardous materials incident.

Adopted on _____

Lincoln County LEPC Chair

Promulgation Statement for County Wide Strategic Plan

Resolution 2016-03-08 Motion by: Zeitz Designating Lincoln County Hazardous Materials County-wide Plan/Strategic Plan as Official Plan Second by: Alber WHEREAS, consistent with Title 42 U.S. Code, Chapter 116, sub-chapter sec 11003(a) Plan Y N Abs Dist. Supervisor required: "each local emergency planning committee (LEPC) shall complete preparation of an 13 Alber emergency plan in accordance with this section no later than two years after October 17, 1986. 19 Allen The committee shall review the plan once a year"; and 10 Baughan 1 Bialecki WHEREAS, sec 323.60 and 323.61, Wis. Stats dealing with hazardous substances information 11 Breitenmoser and emergency planning also require the LEPC to follow the U.S. Code as stated above; and 12 Gilk 17 Koth WHEREAS, Resolution 9-89 established the Lincoln County Emergency Planning Committee and 15 Lee made it responsible for establishing a plan to comply with the Superfund Amendment & 16 Loka reauthorization Act /Title III planning requirements ; and 14 Lussow 4 Nowak WHEREAS, sec 11003(e) of the U.S. Code stated above requires the LEPC to submit the plan to 21 Pike the Wisconsin Emergency Management/ State Emergency Response Commission (WEM/SERC) 8 Plant for review and the WEM/SERC is to make recommendations to the LEPC for revisions; and 18 Powell 22 Reichelt WHEREAS, the WEM/SERC required the plan to include a Promulgation Statement that 7 Rusch authorizes the plan as the official County-Wide Strategic Plan. 3 Schwartzman 5 Swanson NOW, THEREFORE BE IT RESOLVED, that the Lincoln County Hazardous Materials County-wide 20 Vander Sanden Plan/Strategic Plan as developed by the Lincoln County Local Emergency Planning Committee 2 Weaver according to the requirements of Title 42 W.U. Code, Chapter 116, sub-chapter sec 11003 be 6 Woller and is hereby designated by the Lincoln County Board as the official County-wide Emergency 9 Zeitz Plan/Strategic Plan. Totals Carried Defeated Dated: March 15, 2016 Amended Introduced by: Local Emergency Planning Committee (LEPC) Voice vote Date Passed: February 24, 2016 Committee Vote: Unanimous Roll call Fiscal Impact: None Introduced by: Emergency Management Committee Date Passed: March 2, 2016 Committee Vote: Unanimous Fiscal Impact: None STATE OF WISCONSIN) Drafted by: Nancy Bergstrom, Lincoln County Corporation Counsel SS: COUNTY OF LINCOLN I hereby certify that this resolution/ordinance is a true and correct copy of a resolution/ordinance adopted Man Man TY CLE by Lincoln County Board of Supervisors on: 3-15-2010 ନ୍ନ ð C. 0 00 Christopher J. Marlowe County Clerk

Attachment B

Substance Release Notification Form

The Wisconsin Department of Natural Resources now encourages customers to submit documents online via their "Submittal Portal". The WDNR is temporarily suspending the requirement to submit one paper copy of each plan or report under Wis. Stat. NR 700.11(3g), including hard copies of case closure packets.

The "Submittal Portal" can be found at: https://dnr.wisconsin.gov/topic/Brownfields/Submittal.html.

Attachment C

Spill Report Forms and Spill History

Reports of hazardous chemical spills and releases are maintained by the Wisconsin Department of Natural Resources on the SERTS system and are available from the WDNR.

Identification of County Emergency Response Team

Pursuant to Lincoln County's Emergency Operations Plan (EOP), the incident commander and/or unified command will identify the need for hazmat response and relay that request to Lincoln County Sheriff's Office (LCSO) Communication Center whom with contact the appropriate team.

The Tomahawk Fire Department is capable of handling minor hazardous materials incidents; however, if the incident exceeds the ability/capability of Tomahawk Fire Department LCSO Communications Center will request the appropriate agency. Lincoln County contracts with two (2) external hazmat response teams dependent on level of release, for Level B response Oneida County Sheriff Office Hazardous Materials Response Team; whereas, for Level A response Wausau Wisconsin Hazardous Response Team.

For Level A incidents, the response of Wausau Wisconsin Hazardous Response Team must be requested through the Wisconsin Emergency Management (WEM) State Emergency Operations Center (SEOC). Contact the WEM SEOC Duty Officer at (800) 943-0003 for response.

Attachment D

Identification of County Emergency Response Team

A. Training

1. Lincoln County Emergency Management will procure grant funding to provide training for Merrill Fire Department in HAZMAT Refresher and Lincoln County Telecommunicators in HAZMAT Identification to bolster response.