

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 Taylor, 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 statute.
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 considered 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 SESSIONS 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 unless 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>

Fri, Nov 10, 2023 at 11:27 AM

To: tyler.verhasselt@co.lincoln.wi.us

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:

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12/11/23, 10:09 AM

LINCOLN COUNTY, WI Mail - WI SPILL #19868 ID 20231110NO35-1 - GEAR OIL [ENGINE OIL]

tyler.dix@wisconsin.gov

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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>

Wed, Dec 6, 2023 at 6:33 PM

To: tyler.verhasselt@co.lincoln.wi.us

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

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Lincoln County: Local Emergency Planning Committee (LEPC)



LINCOLN COUNTY EMERGENCY MANAGEMENT



FEMA



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

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Table of Contents

I. Facility Information	4
II. Facility Emergency Contacts	4
III. Extremely Hazardous Substances (EHS).....	5
IV. Primary Emergency Responders.....	5
V. Support Available at Facility	6
VI. General information and Assumptions (Disclaimer)	7
VII. Hazard Analysis Summary	7
VIII. Population Protection.....	11
IX. Distribution List.....	12
X. Supporting Documentation	12
Attachment A, Record of Change and Review	13
Attachment B, Facility Layout and Site Information.....	14
Attachment C, Transportation Routes Map	16
Attachment D, Safety Data Sheet for Chlorine.....	17
Attachment E, Vulnerability Zone Map for Chlorine	23

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.		
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	
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:	> 10 miles	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
3. Attachment C, Transportation Route Map
4. Attachment D, Safety Data Sheet for Chlorine
5. Attachment E, Vulnerability Zone Map for Chlorine

Attachment A

Record of Change and Review

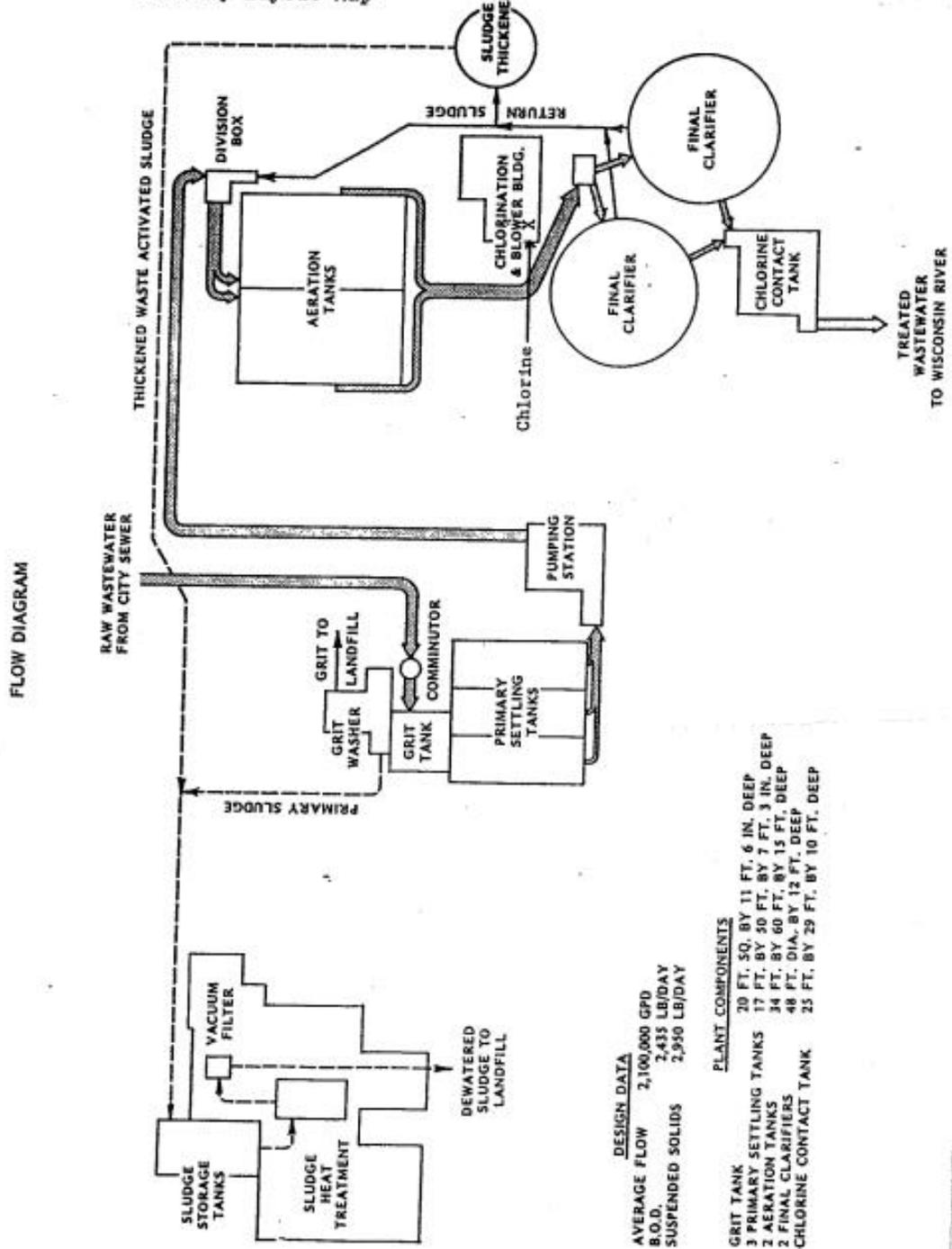
Date	Contributor	Description of Change	Page Number(s)
12-5-2023	T. Verhasselt and G. Steinagel	Authored plan and reviewed with City of Merrill for accuracy.	Pgs. 1-23

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

Attachment B

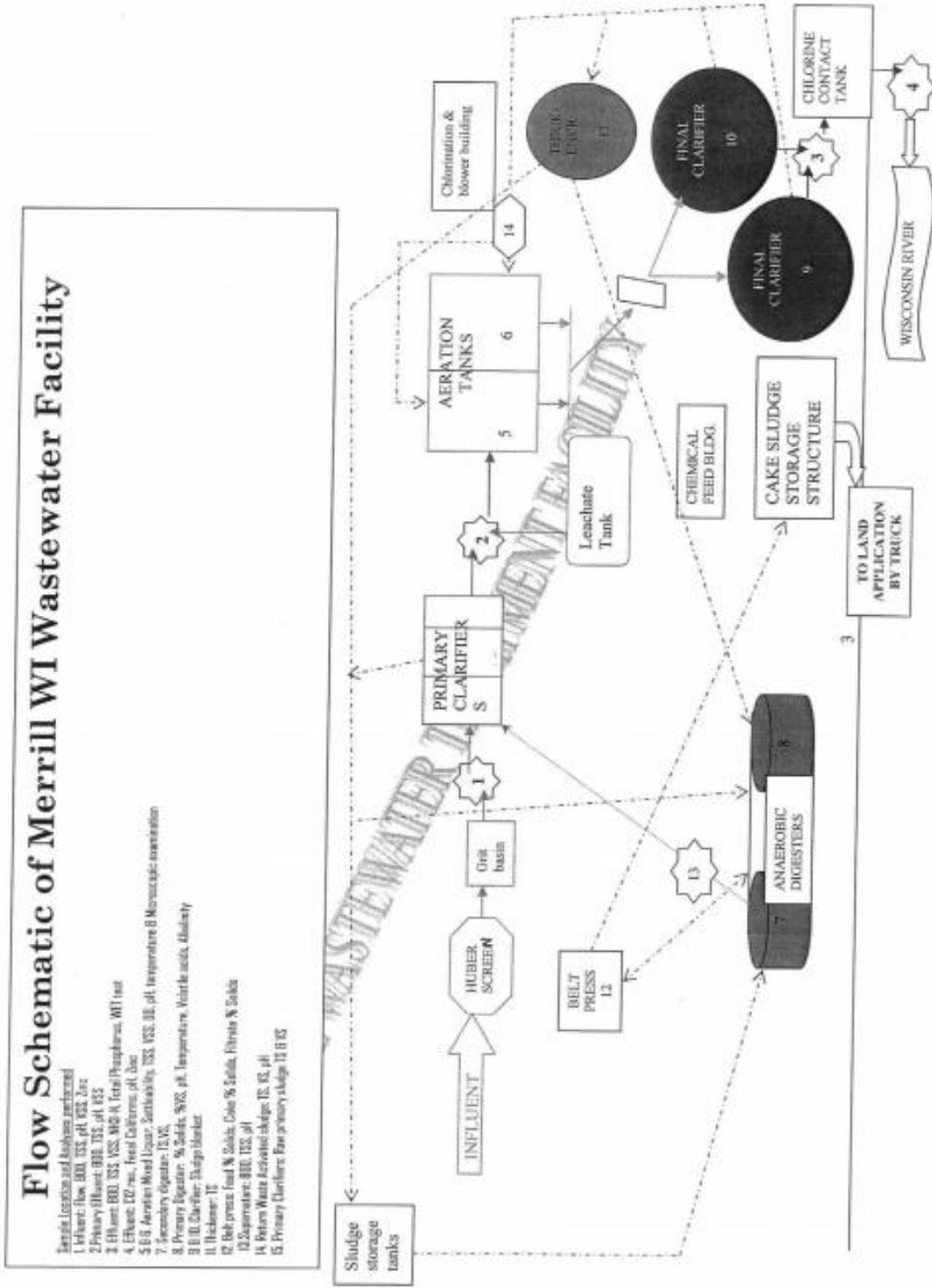
Facility Layout and Site Information

Merrill Water Utility Waste Water Treatment Plant
Facility Layout Map

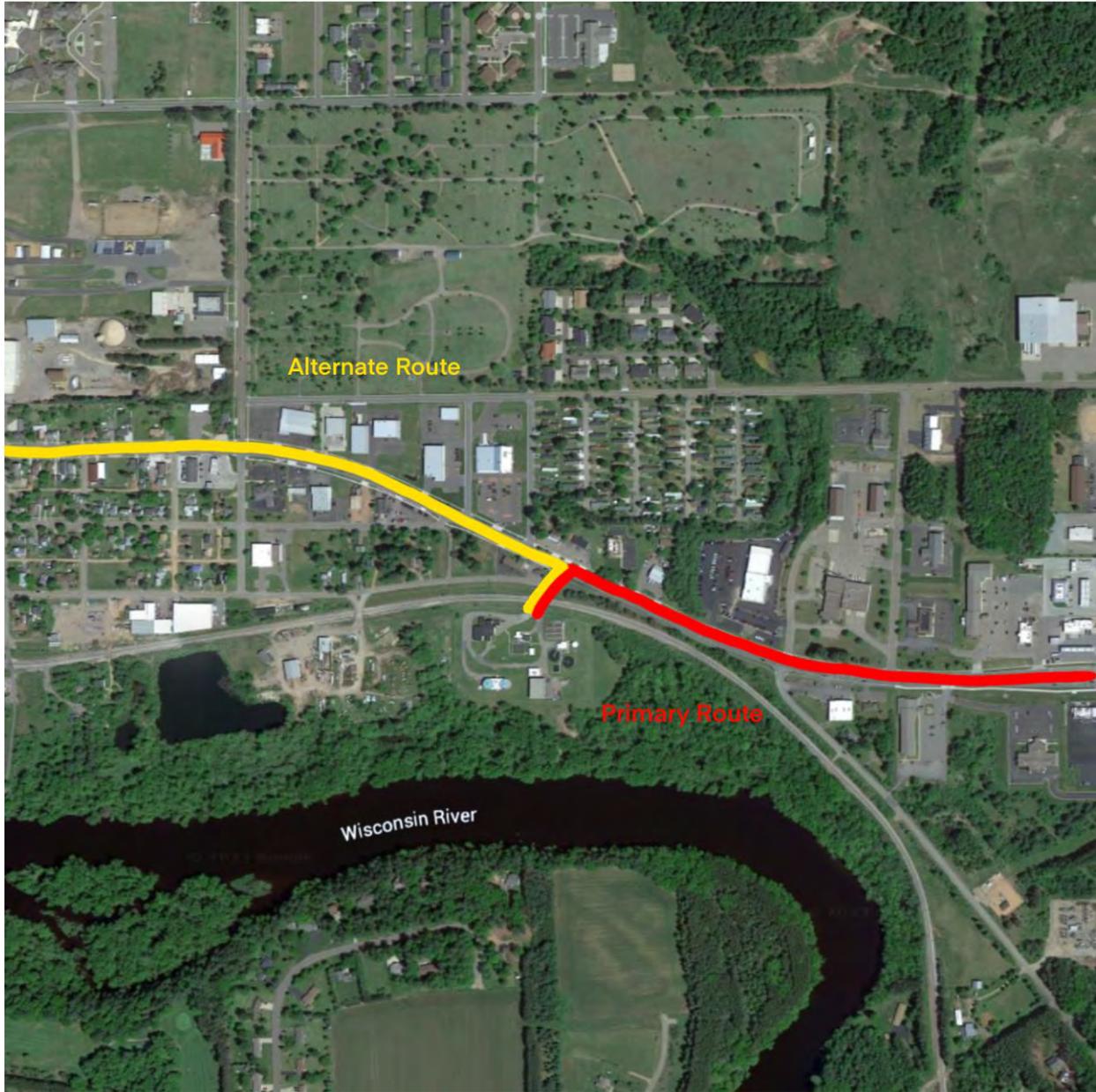


Attachment B cont.

Facility Layout and Site Information



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: CHLORINE
Synonyms: Liquid Chlorine
CAS Number: 7782-50-5
Chemical Family: Halogen
Formula: Cl₂

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: DANGER! 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.

Attachment D, cont.

Safety Data Sheet for Chlorine

CHLORINE
Product ID: CL000000

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	% by Wt.
Chlorine	7782-50-5	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

a

Attachment D, cont.

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:

<u>Component</u>	<u>Limits</u>
Chlorine	1 ppm Ceiling; 3 mg/m ³ Ceiling

ACGIH Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Chlorine	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

Attachment D, cont.

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

<u>Component</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
No components found or no data available for product.			

Other Information

Inhalation LC50: Rat: 0.86 mg/L/1H; Rat: 293 ppm/1H (Chlorine)

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

Attachment D, cont.

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 irritation 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.

Biodegradation: 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: UN1017
Proper Shipping Name: Chlorine
Hazard Class: 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:

Table with 5 columns: Immediate (Acute), Delayed (Chronic), Fire Hazard, Pressure Release, Reactive. Each column has 'Yes' and 'No' options.

Attachment D, cont.

Safety Data Sheet for Chlorine

CHLORINE

Product ID: CL000000

Regulated Components:	CAS	CERCLA	SARA	SARA	U.S.	WI	Prop
Component	Number	RQ	EHS	313	HAP	HAP	65
Chlorine	7782-50-5	Yes	Yes	Yes	Yes	Yes	No

***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

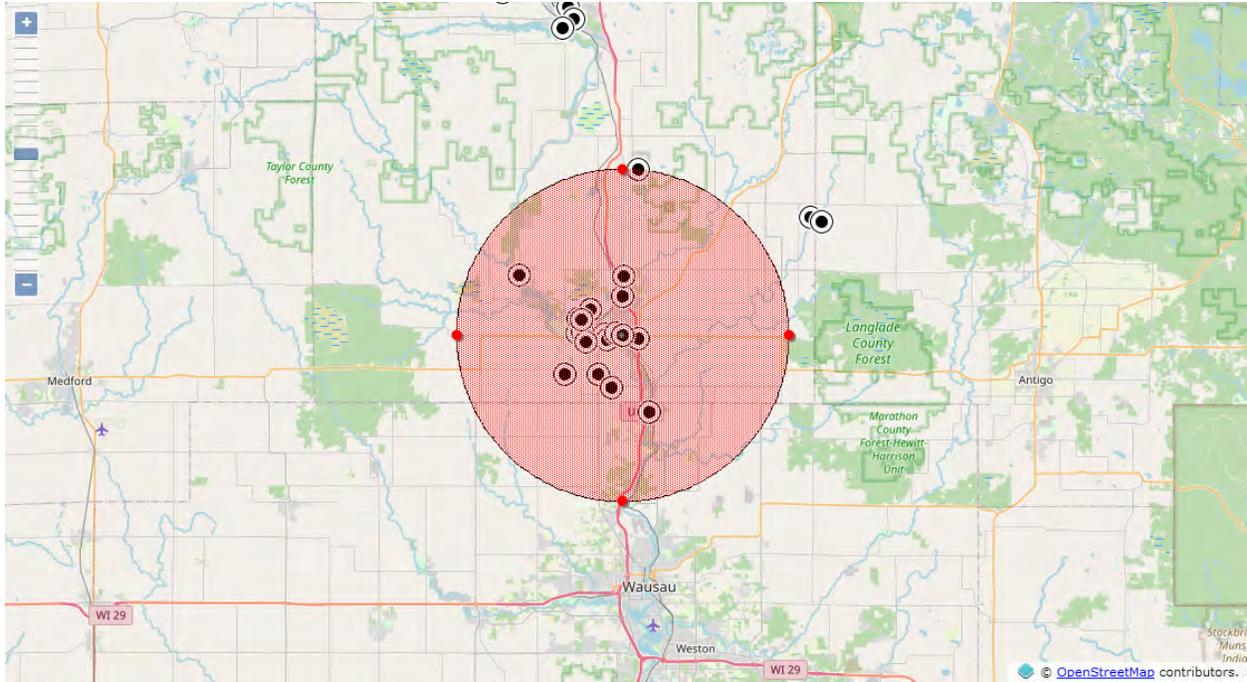
Reason for Revision: New format. Changes made throughout the MSDS.

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.

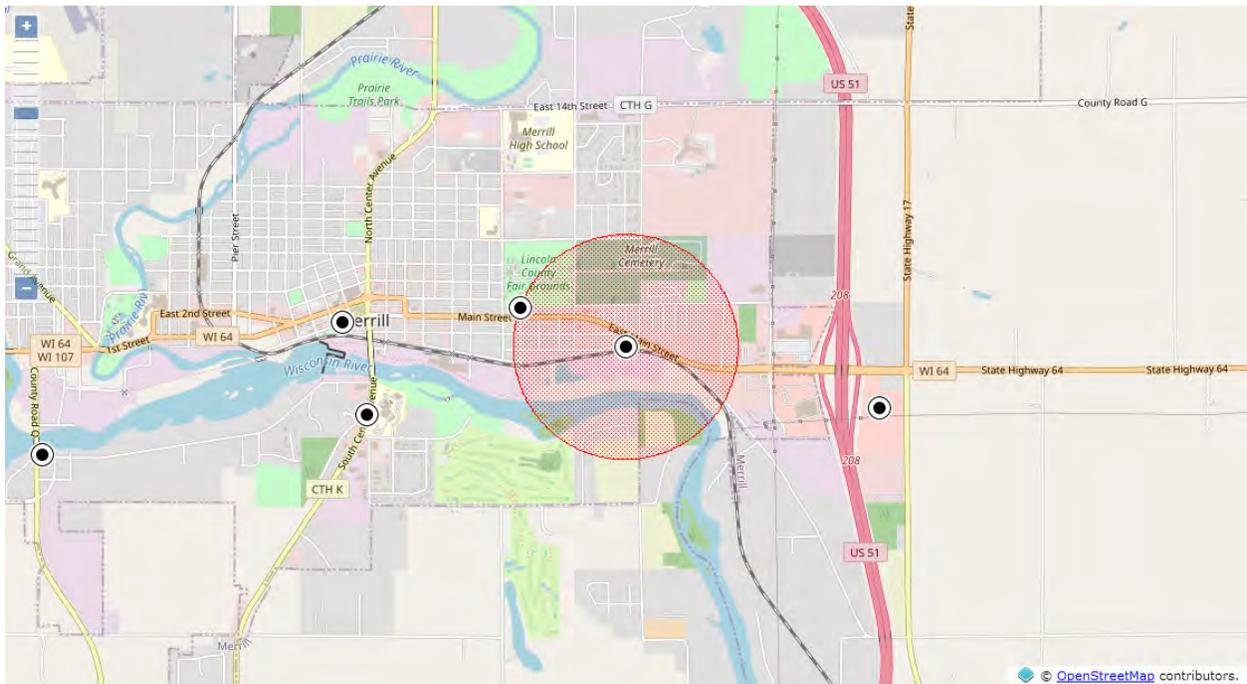
Attachment E

Vulnerability Zone Maps for Chlorine

A. Worst Case Scenario



B. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



LINCOLN COUNTY EMERGENCY MANAGEMENT



FEMA



2023 Off Site Plan: Frontier—Merrill

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

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Table of Contents

I. Facility Information	4
II. Facility Emergency Contacts	4
III. Extremely Hazardous Substances (EHS).....	5
IV. Primary Emergency Responders.....	5
V. Support Available at Facility	6
VI. General information and Assumptions (Disclaimer)	7
VII. Hazard Analysis Summary	7
VIII. Population Protection.....	9
IX. Special Considerations.....	9
X. Distribution List.....	10
XI. Supporting Documentation	10
Attachment A, Record of Change and Review	11
Attachment B, Facility Layout and Site Information.....	12
Attachment C, Transportation Route Map.....	14
Attachment D, Safety Data Sheet for Sulfuric Acid	15
Attachment E, Vulnerability Zone Map for Sulfuric Acid	22

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 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 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 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

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Attachment A

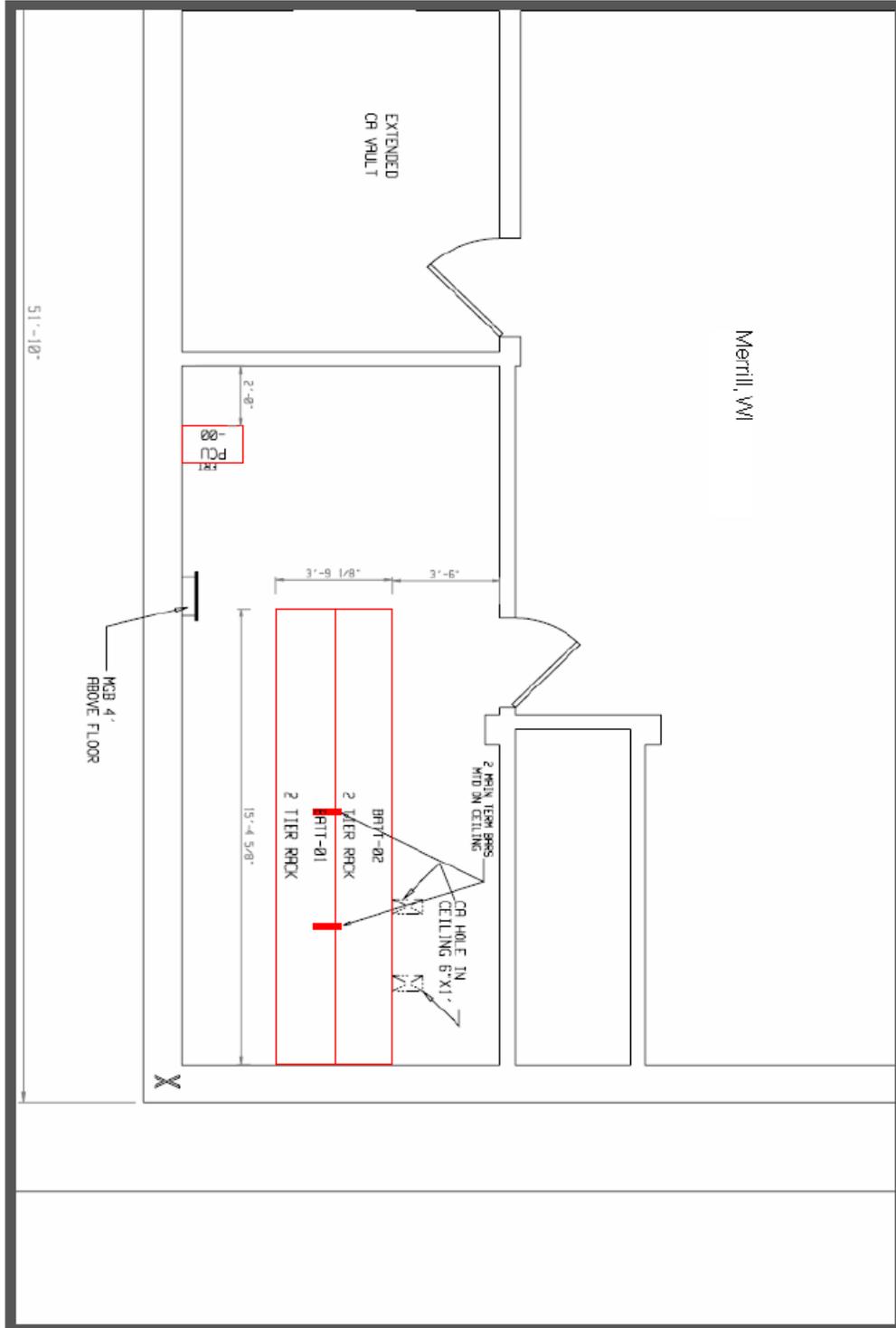
Record of Change/ Review /Signature

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 cont.

Facility Layout and Site Information



Attachment D

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020
 Revised: AB
 Supersedes: AA
 ECO #: 1001828

I. PRODUCT IDENTIFICATION		
<p>Chemical Trade Name (as used on label): Lead-Acid Battery, Wet</p> <p>Synonyms: Industrial Battery, Traction Battery, Stationary Battery, Deep Cycle Battery</p> <p>Manufacturer's Name/Address: EnerSys P.O. Box 14145 2366 Bernville Road Reading, PA 19612-4145</p>	<p>Chemical Family/Classification: Electric Storage Battery</p> <p>Telephone: For information and emergencies, contact EnerSys' Environmental, Health & Safety Dept. at 610-208-1996</p> <p>24-Hour Emergency Response Contact: CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INTL: 703-527-3877</p>	
II. GHS HAZARDS IDENTIFICATION		
HEALTH	ENVIRONMENTAL	PHYSICAL
<p>Acute Toxicity (Oral/Dermal/Inhalation) Category 4</p> <p>Skin Corrosion/Irritation Category 1A</p> <p>Eye Damage Category 1</p> <p>Reproductive Category 1A</p> <p>Carcinogenicity (lead compounds) Category 1B</p> <p>Carcinogenicity (arsenic) Category 1A</p> <p>Carcinogenicity (acid mist) Category 1A</p> <p>Specific Target Organ Category 2</p> <p>Toxicity (repeated exposure)</p>	<p>Aquatic Chronic 1</p> <p>Aquatic Acute 1</p>	<p>Explosive Chemical, Division 1.3</p>
HEALTH	ENVIRONMENTAL	PHYSICAL
<p>Hazard Statements</p> <p>DANGER!</p> <p>Causes severe skin burns and serious eye damage.</p> <p>May damage fertility or the unborn child if ingested or inhaled.</p> <p>May cause cancer if ingested or inhaled.</p> <p>Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure.</p> <p>May form explosive air/gas mixture during charging.</p> <p>Extremely flammable gas (hydrogen).</p> <p>Explosive, fire, blast, or projection hazard.</p> <p>May cause harm to breast-fed children</p> <p>Harmful if swallowed, inhaled, or contact with skin</p> <p>Causes skin irritation, serious eye damage.</p>	<p>Precautionary Statements</p> <p>Wash thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wear protective gloves/protective clothing, eye protection/face protection.</p> <p>Avoid breathing dust/fume/gas/mist/vapors/spray.</p> <p>Use only outdoors or in a well-ventilated area.</p> <p>Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid.</p> <p>Irritating to eyes, respiratory system, and skin.</p> <p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood</p> <p>Avoid contact during pregnancy/while nursing</p> <p>Keep away from heat/sparks/open flames/hot surfaces. No smoking</p>	
III. COMPOSITION/INFORMATION ON INGREDIENTS		
Components	CAS Number	Approximate % by Wt.
Inorganic Lead Compound:		
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
Case Material:		5-10
Polypropylene	9003-07-0	
Polystyrene	9003-53-6	
Styrene Acrylonitrile	9003-54-7	
Acrylonitrile Butadiene Styrene	9003-56-9	
Styrene Butadiene	9003-55-8	
Polyvinylchloride	9002-86-2	
Polycarbonate, Hard Rubber, Polyethylene	9002-88-4	

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020
 Revised: AB
 Supersedes: AA
 ECO #: 1001828

Other:	Silicon Dioxide (Gel batteries only) Sheet Molding Compound (Glass reinforced polyester)	7631-86-9 -	1-5	
Inorganic lead and electrolyte (sulfuric acid) are the primary components of every battery manufactured by EnerSys. Other ingredients may be present dependent upon battery type. Contact your EnerSys representative for additional information.				
IV. FIRST AID MEASURES				
Inhalation:	<p>Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician. Lead: Remove from exposure, gargle, wash nose and lips; consult physician.</p>			
Ingestion:	<p>Sulfuric Acid: Give large quantities of water; do not induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death; consult a physician. Lead: Consult physician immediately.</p>			
Skin:	<p>Sulfuric Acid: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes. Lead: Wash immediately with soap and water.</p>			
Eyes:	<p>Sulfuric 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 exposed directly to acid.</p>			
V. FIRE FIGHTING MEASURES				
Flash Point:	N/A	Flammable Limits:	LEL = 4.1% (Hydrogen Gas)	UEL = 74.2%
Extinguishing Media: CO ₂ ; foam; dry chemical. Do not use carbon dioxide directly on cells. Avoid breathing vapors. Use appropriate media for surrounding fire.				
Special Fire Fighting Procedures:				
<p>If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing, gloves, face and eye protection. But note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.</p>				
Unusual Fire and Explosion Hazards:				
<p>Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.</p>				
VI. ACCIDENTAL RELEASE MEASURES				
Spill or Leak Procedures:				
<p>Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer. Acid must be managed in accordance with local, state, and federal requirements. Consult state environmental agency and/or federal EPA.</p>				
VII. HANDLING AND STORAGE				
Handling:				
<p>Unless involved in recycling operations, do not breach the casing or empty the contents of the battery. Handle carefully and avoid tipping, which may allow electrolyte leakage. There may be increasing risk of electric shock from strings of connected batteries. Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits. Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.</p>				
Storage:				
<p>Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat. Keep away from metallic objects could bridge the terminals on a battery and create a dangerous short-circuit.</p>				
Charging:				
<p>There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to 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. Wear face and eye protection when near batteries being charged.</p>				

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020
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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION						
Exposure Limits (mg/m ³) Note: N.E. = Not Established						
INGREDIENTS (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,e)
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	N.E.	N.E.	N.E.	N.E.	1	N.E.
Polycarbonate, Hard Rubber, Polyethylene	N.E.	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)	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
NOTES:						
(b) As inhalable aerosol						
(c) Thoracic fraction						
(e) Based on OELs Of Austria, Belgium, Denmark, France, Netherlands, Switzerland, & U.K.						
Engineering Controls/Ventilation:						
Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing, eye and face protection when filling, charging or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge the batteries in areas with adequate ventilation. General dilution ventilation is acceptable.						
Respiratory Protection (NIOSH/MSHA approved):						
None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.						
Skin Protection:						
If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gantlet, acid-resistant apron, clothing and boots.						
Eye Protection:						
If battery case is damaged, use chemical goggles or face shield.						
Other Protection:						
In areas where sulfuric acid is handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply. Acid-resistant apron. Under severe exposure emergency conditions, wear acid-resistant clothing and boots. Face shield recommended when adding water or electrolyte to batteries, wash hands after handling.						
IX. PHYSICAL AND CHEMICAL PROPERTIES						
Properties Listed Below are for Electrolyte:						
Boiling Point:	203 - 240° F	Specific Gravity (H ₂ O = 1):	1.215 to 1.350			
Melting Point:	N/A	Vapor Pressure (mm Hg):	10			
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1			
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A			
pH:	~1 to 2	Flash Point:	Below room temperature (as hydrogen gas)			
LEL (Lower Explosive Limit)	4.1% (Hydrogen)	UEL (Upper Explosive Limit)	74.2% (Hydrogen)			
Appearance and Odor:	Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.					

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020
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X. STABILITY AND REACTIVITY	
Stability: Stable X ₂	Unstable
This product is stable under normal conditions at ambient temperature.	
Conditions To Avoid: Prolonged overcharge; sources of ignition	
Incompatibility: (Materials to avoid)	
<p><u>Sulfuric Acid:</u> 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.</p> <p><u>Lead Compounds:</u> Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen and reducing agents.</p> <p><u>Arsenic compounds:</u> strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsine.</p>	
Hazardous Decomposition Products:	
<p><u>Sulfuric Acid:</u> Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.</p> <p><u>Lead Compounds:</u> 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.</p>	
Hazardous Polymerization:	
Will not occur	
XI. TOXICOLOGICAL INFORMATION	
Routes of Entry:	
<p><u>Sulfuric Acid:</u> Harmful by all routes of entry.</p> <p><u>Lead Compounds:</u> Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapor or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.</p>	
Inhalation:	
<p><u>Sulfuric Acid:</u> Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.</p> <p><u>Lead Compounds:</u> Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.</p>	
Ingestion:	
<p><u>Sulfuric Acid:</u> May cause severe irritation of mouth, throat, esophagus and stomach.</p> <p><u>Lead Compounds:</u> Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.</p>	
Skin Contact:	
<p><u>Sulfuric Acid:</u> Severe irritation, burns and ulceration.</p> <p><u>Lead Compounds:</u> Not absorbed through the skin.</p> <p><u>Arsenic Compounds:</u> Contact may cause dermatitis and skin hyper pigmentation.</p>	
Eye Contact:	
<p><u>Sulfuric Acid:</u> Severe irritation, burns, cornea damage, and blindness.</p> <p><u>Lead Compounds:</u> May cause eye irritation.</p>	
Effects of Overexposure - Acute:	
<p><u>Sulfuric Acid:</u> Severe skin irritation, damage to cornea, upper respiratory irritation.</p> <p><u>Lead Compounds:</u> Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep disturbances and irritability.</p>	
Effects of Overexposure - Chronic:	
<p><u>Sulfuric Acid:</u> Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.</p> <p><u>Lead Compounds:</u> 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 abnormal conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.</p>	
Carcinogenicity:	
<p><u>Sulfuric Acid:</u> The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as 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 the product, such as overcharging, may result in the generation of sulfuric acid mist.</p> <p><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></p> <p><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, this is approximately equivalent to GHS Category 1A.</p>	
Medical Conditions 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 diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.	

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020
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<p>IATA Dangerous Goods Regulations DGR:</p> <p>The international transportation of wet and moist charged (moist active) batteries is regulated by the International Air Transport Association (IATA). These regulations also classify these types of batteries as a hazardous material. The batteries must be packed according to IATA Packing Instruction 870.</p> <p><u>The shipping information is as follows:</u></p> <table border="0"> <tr> <td>Proper Shipping Name: Batteries, wet, filled with acid</td> <td>Packing Group: N/A</td> </tr> <tr> <td>Hazardous Class: 8</td> <td>Label/Placard Required: Corrosive</td> </tr> <tr> <td>UN Identification: UN2794</td> <td></td> </tr> </table> <p>Contact your EnerSys representative for additional information regarding the classification of batteries.</p>	Proper Shipping Name: Batteries, wet, filled with acid	Packing Group: N/A	Hazardous Class: 8	Label/Placard Required: Corrosive	UN Identification: UN2794													
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<p>IMDG:</p> <p>The international transportation of wet and moist charged (moist active) batteries is regulated by the International Maritime Dangerous Goods code (IMDG). These regulations also classify these types of batteries as hazardous material. The batteries must be packed according to IMDG code pages 8120 and 8121. IMDG Code Packing Instruction P801.</p> <p><u>The shipping information is as follows:</u></p> <table border="0"> <tr> <td>Proper Shipping Name: Batteries, wet, filled with acid</td> <td>Packing Group: N/A</td> </tr> <tr> <td>Hazardous Class: 8</td> <td>Label/Placard Required: Corrosive</td> </tr> <tr> <td>UN Identification: UN2794</td> <td></td> </tr> </table> <p>Contact your EnerSys representative for additional information regarding the classification of batteries.</p>	Proper Shipping Name: Batteries, wet, filled with acid	Packing Group: N/A	Hazardous Class: 8	Label/Placard Required: Corrosive	UN Identification: UN2794													
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<p>IV. REGULATORY INFORMATION</p> <p>UNITED STATES:</p> <p>EPA SARA Title III:</p> <p><u>Section 302 EPCRA Extremely Hazardous Substances (EHS):</u></p> <p>Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs. EPCRA Section 302 notification is required if 1000 lbs or more of sulfuric acid is present at one site (40 CFR 370.10). For more information consult 40 CFR Part 355. The quantity of sulfuric acid will vary by battery type. Contact your EnerSys representative for additional information.</p> <p><u>Section 304 CERCLA Hazardous Substances:</u></p> <p>Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.</p> <p><u>Section 311/312 Hazard Categorization:</u></p> <p>EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric 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 information consult 40 CFR 370.10 and 40 CFR 370.40</p> <p><u>Section 313 EPCRA Toxic Substances:</u></p> <p>40 CFR section 372.38 (b) states: If a toxic chemical is present in an article at a covered facility, a person is not required to consider the quantity of the toxic chemical present in such article when determining whether an applicable threshold has been met under § 372.25, § 372.27, or § 372.28 or determining the amount of release to be reported under § 372.30. This exemption applies whether the person received the article from another person or the person produced the article. However, this exemption applies only to the quantity of the toxic chemical present in the article.</p> <p><u>Supplier Notification:</u></p> <p>This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements. 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:</p> <table border="1"> <thead> <tr> <th>Toxic Chemical</th> <th>CAS Number</th> <th>Approximate % by Wt.</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>7439-92-1</td> <td>60</td> </tr> <tr> <td>Electrolyte (Sulfuric Acid (H₂SO₄/H₂O))</td> <td>7664-93-9</td> <td>10 - 30</td> </tr> <tr> <td>* Antimony</td> <td>7440-36-0</td> <td>2</td> </tr> <tr> <td>* Arsenic</td> <td>7440-38-2</td> <td>0.2</td> </tr> <tr> <td>Tin</td> <td>7440-31-5</td> <td>0.2</td> </tr> </tbody> </table> <p>See 40 CRG Part 370 for more details.</p> <p>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.</p> <p>The Section 313 supplier notification requirement does not apply to batteries, which are "consumer products".</p> <p>* Not present in all battery types. Contact your EnerSys representative for additional information.</p>	Toxic Chemical	CAS Number	Approximate % by Wt.	Lead	7439-92-1	60	Electrolyte (Sulfuric Acid (H ₂ SO ₄ /H ₂ O))	7664-93-9	10 - 30	* Antimony	7440-36-0	2	* Arsenic	7440-38-2	0.2	Tin	7440-31-5	0.2
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Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

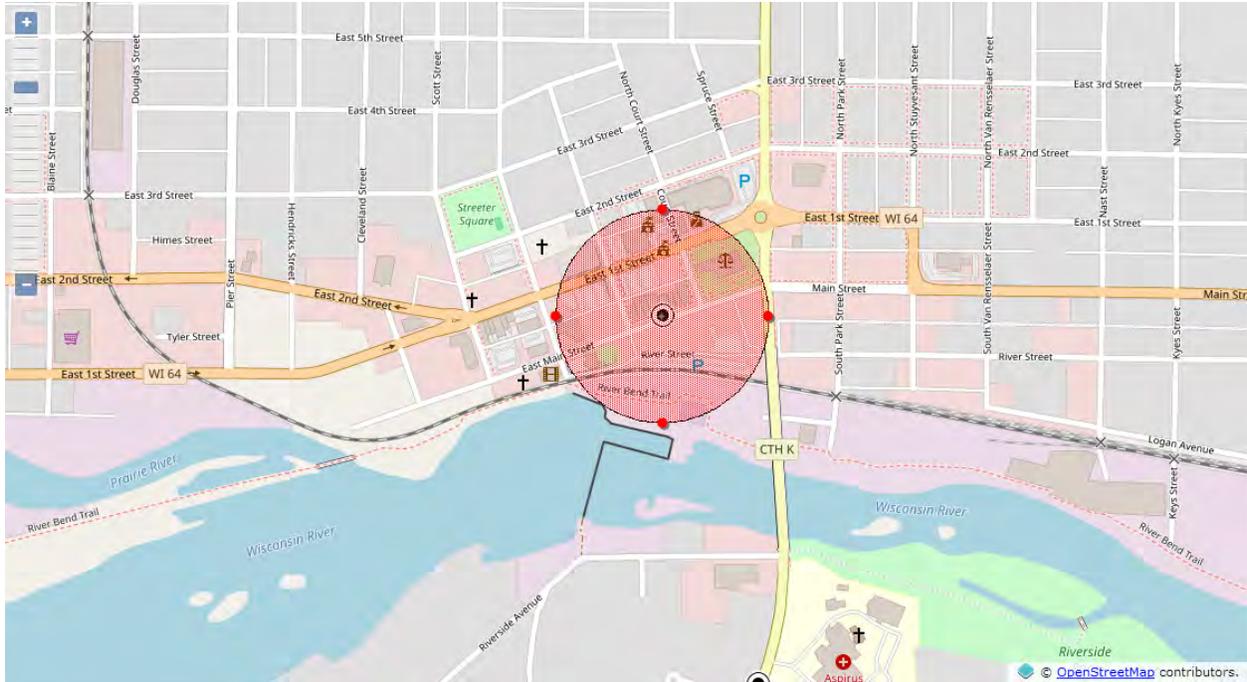
Form #: SDS 853020
Revised: AB
Supersedes: AA
ECO #: 1001828

TSCA:	<p>TSCA Section 8b - Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.</p> <p>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.</p> <p>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).</p>
RCRA:	<p>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.</p> <p>Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).</p>
CAA:	<p>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 611 of 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.</p>
STATE REGULATIONS (US):	<p>Proposition 65: 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 handling.</p>
INTERNATIONAL REGULATIONS:	<p>Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).</p> <p>Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.</p>
XVI. OTHER INFORMATION	
Revision: AB (04-25-17)	
NFPA Hazard Rating for Sulfuric Acid:	
Flammability (Red) = 0	Reactivity (Yellow) = 2
Health (Blue) = 3	Sulfuric acid is water-reactive if concentrated.
DISCLAIMER This Safety Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law, the manufacturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or other damages, arising out of the use of, or reliance on, this Safety Data Sheet.	

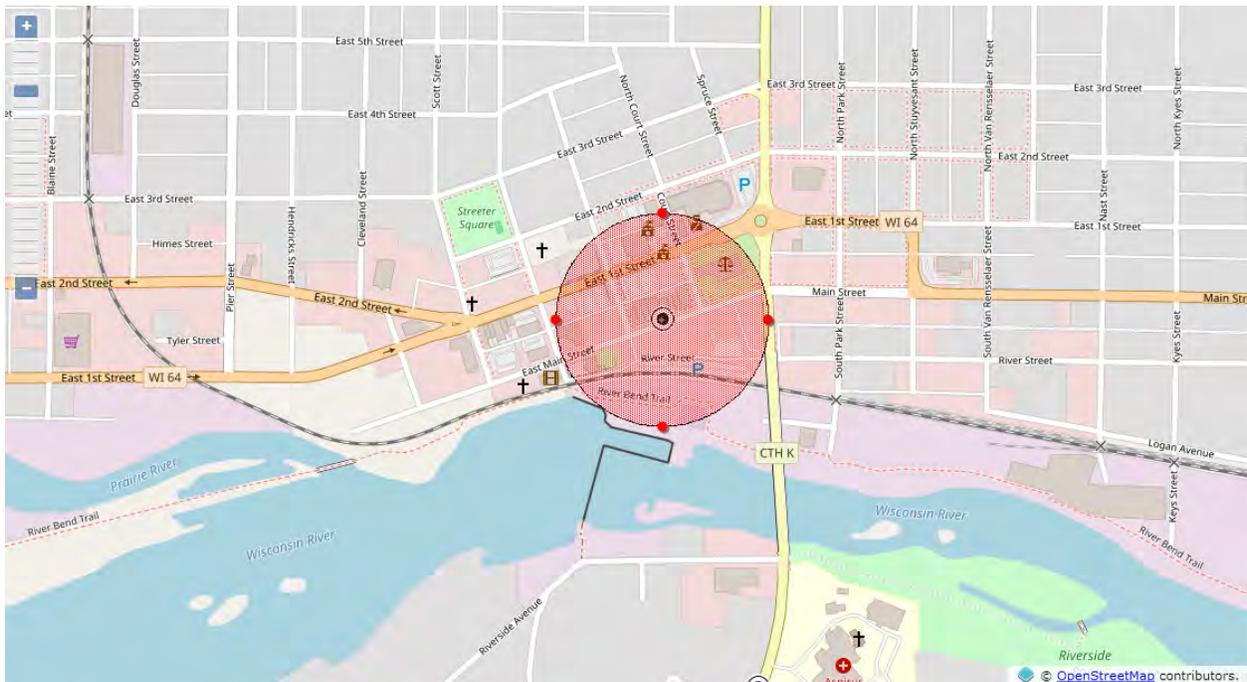
Attachment E

Vulnerability Zone Maps for Sulfuric Acid

A. Worst Case Scenario



B. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



LINCOLN COUNTY EMERGENCY MANAGEMENT



FEMA



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

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Table of Contents

I. Facility Information	4
II. Facility Emergency Contacts	4
III. Extremely Hazardous Substances (EHS).....	5
IV. Primary Emergency Responders.....	5
V. Support Available at Facility	6
VI. General information and Assumptions (Disclaimer)	7
VII. Hazard Analysis Summary	7
VIII. Population Protection.....	9
IX. Special Considerations.....	9
X. Distribution List.....	10
XI. Supporting Documentation	10
Attachment A, Record of Change and Review	11
Attachment B, Facility Layout and Site Information.....	12
Attachment C, Transportation Route Map.....	13
Attachment D, Safety Data Sheet for Sulfuric Acid	14
Attachment E, Vulnerability Zone Map for Sulfuric Acid	21

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:	1,544 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 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 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

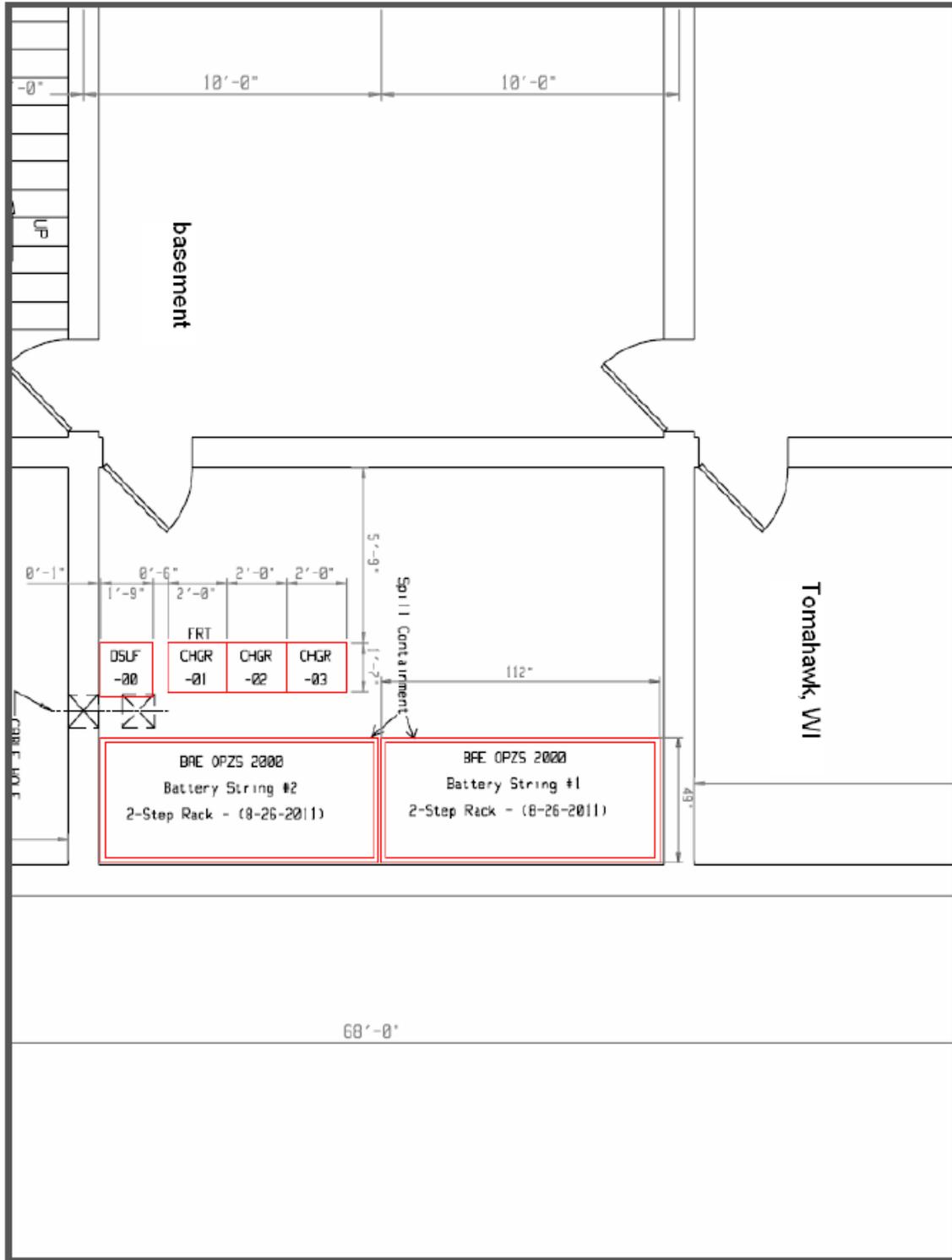
Record of Change/ Review /Signature

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.

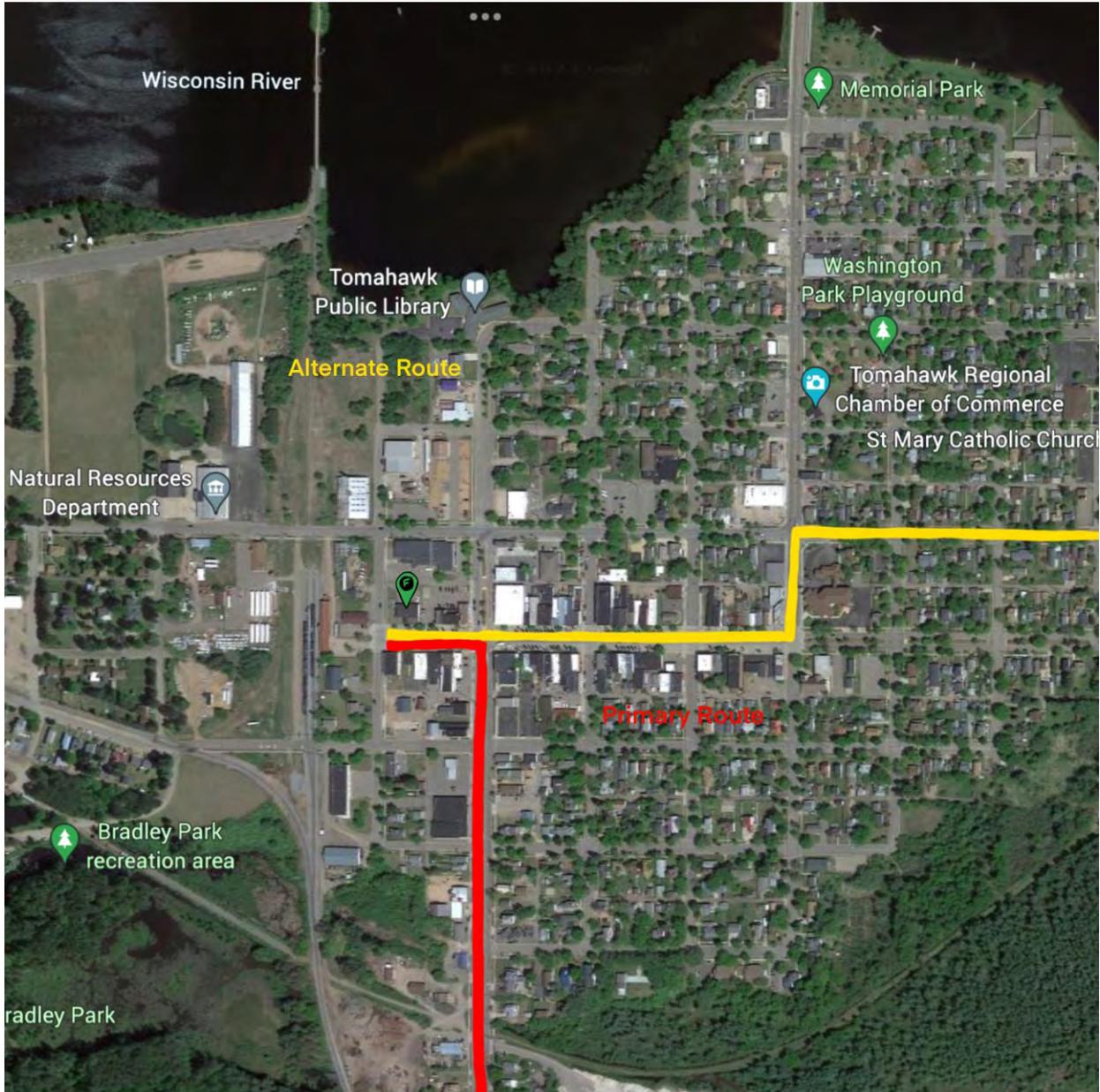
Attachment B

Facility Layout and Site Information



Attachment C

Transportation Route Map



Attachment D

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020
 Revised: AB
 Supersedes: AA
 ECO #: 1001828

I. PRODUCT IDENTIFICATION	
Chemical Trade Name (as used on label): Lead-Acid Battery, Wet Synonyms: Industrial Battery, Traction Battery, Stationary Battery, Deep Cycle Battery Manufacturer's Name/Address: EnerSys P.O. Box 14145 2366 Bernville Road Reading, PA 19612-4145	Chemical Family/Classification: Electric Storage Battery Telephone: For information and emergencies, contact EnerSys' Environmental, Health & Safety Dept. at 610-208-1996 24-Hour Emergency Response Contact: CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INTL: 703-527-3877

II. GHS HAZARDS IDENTIFICATION		
HEALTH	ENVIRONMENTAL	PHYSICAL
Acute Toxicity (Oral/Dermal/Inhalation) Category 4 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)	Aquatic Chronic 1 Aquatic Acute 1	Explosive Chemical, Division 1.3

HEALTH	ENVIRONMENTAL	PHYSICAL

Hazard Statements	Precautionary Statements
DANGER! Causes severe skin burns and serious eye damage. May damage fertility or the unborn child if ingested or inhaled. May cause cancer if ingested or inhaled. Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure. May form explosive air/gas mixture during charging. Extremely flammable gas (hydrogen). Explosive, fire, blast, or projection hazard. May cause harm to breast-fed children Harmful if swallowed, inhaled, or contact with skin Causes skin irritation, serious eye damage.	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/INFORMATION ON INGREDIENTS		
Components	CAS Number	Approximate % by Wt.
Inorganic Lead Compound:		
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
Case Material:		
Polypropylene	9003-07-0	5-10
Polystyrene	9003-53-6	
Styrene Acrylonitrile	9003-54-7	
Acrylonitrile Butadiene Styrene	9003-56-9	
Styrene Butadiene	9003-55-8	
Polyvinylchloride	9002-86-2	
Polycarbonate, Hard Rubber, Polyethylene	9002-88-4	

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020
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Other:	Silicon Dioxide (Gel batteries only) Sheet Molding Compound (Glass reinforced polyester)	7631-86-9 -	1-5	
Inorganic lead and electrolyte (sulfuric acid) are the primary components of every battery manufactured by EnerSys. Other ingredients may be present dependent upon battery type. Contact your EnerSys representative for additional information.				
IV. FIRST AID MEASURES				
Inhalation:	Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician. Lead: Remove from exposure, gargle, wash nose and lips; consult physician.			
Ingestion:	Sulfuric Acid: Give large quantities of water; do not induce vomiting or aspiration into the lungs may 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 at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes. Lead: Wash immediately with soap and water.			
Eyes:	Sulfuric 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 exposed directly to acid.			
V. FIRE FIGHTING MEASURES				
Flash Point:	N/A	Flammable Limits:	LEL = 4.1% (Hydrogen Gas)	UEL = 74.2%
Extinguishing Media: CO ₂ ; foam; dry chemical. Do not use carbon dioxide directly on cells. Avoid breathing vapors. Use appropriate media for surrounding fire.				
Special Fire Fighting Procedures: If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing, gloves, face and eye protection. But note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.				
Unusual Fire and Explosion Hazards: Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.				
VI. ACCIDENTAL RELEASE MEASURES				
Spill or Leak Procedures: Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer. Acid must be managed in accordance with local, state, and federal requirements. Consult state environmental agency and/or federal EPA.				
VII. HANDLING AND STORAGE				
Handling: Unless involved in recycling operations, do not breach the casing or empty the contents of the battery. Handle carefully and avoid tipping, which may allow electrolyte leakage. There may be increasing risk of electric shock from strings of connected batteries. Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits. Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.				
Storage: Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat. Keep away from metallic objects could bridge the terminals on a battery and create a dangerous short-circuit.				
Charging: There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to 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. Wear face and eye protection when near batteries being charged.				

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION						
Exposure Limits (mg/m ³) Note: N.E. = Not Established						
INGREDIENTS (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,e)
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	N.E.	N.E.	N.E.	N.E.	1	N.E.
Polycarbonate, Hard Rubber, Polyethylene	N.E.	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)	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
NOTES:						
(b) As inhalable aerosol						
(c) Thoracic fraction						
(e) Based on OELs Of Austria, Belgium, Denmark, France, Netherlands, Switzerland, & U.K.						
Engineering Controls/Ventilation:						
Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing, eye and face protection when filling, charging or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge the batteries in areas with adequate ventilation. General dilution ventilation is acceptable.						
Respiratory Protection (NIOSH/MSHA approved):						
None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.						
Skin Protection:						
If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gaitlet, acid-resistant apron, clothing and boots.						
Eye Protection:						
If battery case is damaged, use chemical goggles or face shield.						
Other Protection:						
In areas where sulfuric acid is handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply. Acid-resistant apron. Under severe exposure emergency conditions, wear acid-resistant clothing and boots. Face shield recommended when adding water or electrolyte to batteries, wash hands after handling.						
IX. PHYSICAL AND CHEMICAL PROPERTIES						
Properties Listed Below are for Electrolyte:						
Boiling Point:	203 - 240° F	Specific Gravity (H ₂ O = 1):	1.215 to 1.350			
Melting Point:	N/A	Vapor Pressure (mm Hg):	10			
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1			
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A			
pH:	~1 to 2	Flash Point:	Below room temperature (as hydrogen gas)			
LEL (Lower Explosive Limit)	4.1% (Hydrogen)	UEL (Upper Explosive Limit)	74.2% (Hydrogen)			
Appearance and Odor:	Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.					

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

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X. STABILITY AND REACTIVITY	
Stability: Stable X ₂	Unstable
This product is stable under normal conditions at ambient temperature.	
Conditions To Avoid: Prolonged overcharge; sources of ignition	
Incompatibility: (Materials to avoid)	
<p><u>Sulfuric Acid:</u> 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.</p> <p><u>Lead Compounds:</u> Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen and reducing agents.</p> <p><u>Arsenic compounds:</u> strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsine.</p>	
Hazardous Decomposition Products:	
<p><u>Sulfuric Acid:</u> Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.</p> <p><u>Lead Compounds:</u> 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.</p>	
Hazardous Polymerization:	
Will not occur	
XI. TOXICOLOGICAL INFORMATION	
Routes of Entry:	
<p><u>Sulfuric Acid:</u> Harmful by all routes of entry.</p> <p><u>Lead Compounds:</u> Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapor or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.</p>	
Inhalation:	
<p><u>Sulfuric Acid:</u> Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.</p> <p><u>Lead Compounds:</u> Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.</p>	
Ingestion:	
<p><u>Sulfuric Acid:</u> May cause severe irritation of mouth, throat, esophagus and stomach.</p> <p><u>Lead Compounds:</u> Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.</p>	
Skin Contact:	
<p><u>Sulfuric Acid:</u> Severe irritation, burns and ulceration.</p> <p><u>Lead Compounds:</u> Not absorbed through the skin.</p> <p><u>Arsenic Compounds:</u> Contact may cause dermatitis and skin hyper pigmentation.</p>	
Eye Contact:	
<p><u>Sulfuric Acid:</u> Severe irritation, burns, cornea damage, and blindness.</p> <p><u>Lead Compounds:</u> May cause eye irritation.</p>	
Effects of Overexposure - Acute:	
<p><u>Sulfuric Acid:</u> Severe skin irritation, damage to cornea, upper respiratory irritation.</p> <p><u>Lead Compounds:</u> Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep disturbances and irritability.</p>	
Effects of Overexposure - Chronic:	
<p><u>Sulfuric Acid:</u> Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.</p> <p><u>Lead Compounds:</u> 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 abnormal conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.</p>	
Carcinogenicity:	
<p><u>Sulfuric Acid:</u> The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as 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 the product, such as overcharging, may result in the generation of sulfuric acid mist.</p> <p><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></p> <p><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, this is approximately equivalent to GHS Category 1A.</p>	
Medical Conditions 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 diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.	

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

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<p>Acute Toxicity: Inhalation LD50: <u>Electrolyte:</u> LC50 rat: 375 mg/m³; LC50: guinea pig: 510 mg/m³ <u>Elemental Lead:</u> Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion) <u>Elemental Arsenic:</u> No data</p> <p>Oral LD50: <u>Electrolyte:</u> rat: 2140 mg/kg <u>Elemental Lead:</u> Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion) <u>Elemental Arsenic:</u> LD50 mouse: 145 mg/kg <u>Elemental Antimony:</u> LD50 rat: 100 mg/kg</p> <p>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 food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.</p> <p>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.</p>						
<p>III. ECOLOGICAL INFORMATION</p> <p>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.</p> <p>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 (Carrasissius auratus) >5000 g/L.</p> <p>Additional Information: - No known effects on stratospheric ozone depletion. - Volatile organic compounds: 0% (by Volume) - Water Endangering Class (WGK): NA</p>						
<p>III. DISPOSAL CONSIDERATIONS (UNITED STATES)</p> <p><u>Spent batteries:</u> 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.</p> <p><u>Electrolyte:</u> 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.</p> <p>Following local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.</p>						
<p>XIV. TRANSPORT INFORMATION</p> <p>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.</p> <p><u>The shipping information is as follows:</u></p> <table border="0"> <tr> <td>Proper Shipping Name: Batteries, wet, filled with acid</td> <td>Packing Group: N/A</td> </tr> <tr> <td>Hazardous Class: 8</td> <td>Label/Placard Required: Corrosive</td> </tr> <tr> <td>UN Identification: UN2794</td> <td></td> </tr> </table> <p>Contact your EnerSys representative for additional information regarding the classification of batteries.</p> <p>49 CFR 173.159(e) specifies that when transported by highway or rail, electric storage batteries containing electrolyte or corrosive battery fluid are not subject to 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; (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 batteries; and (4) The transport vehicle may not carry material shipped by any person other than the shipper of the batteries.</p> <p>If any of the above-referenced requirements are not met, the batteries must be shipped as fully-regulated Class 8 Corrosive hazardous materials.</p>	Proper Shipping Name: Batteries, wet, filled with acid	Packing Group: N/A	Hazardous Class: 8	Label/Placard Required: Corrosive	UN Identification: UN2794	
Proper Shipping Name: Batteries, wet, filled with acid	Packing Group: N/A					
Hazardous Class: 8	Label/Placard Required: Corrosive					
UN Identification: UN2794						

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020
 Revised: AB
 Supersedes: AA
 ECO #: 1001828

<p>IATA Dangerous Goods Regulations DGR:</p> <p>The international transportation of wet and moist charged (moist active) batteries is regulated by the International Air Transport Association (IATA). These regulations also classify these types of batteries as a hazardous material. The batteries must be packed according to IATA Packing Instruction 870.</p> <p><u>The shipping information is as follows:</u></p> <table style="width:100%; border: none;"> <tr> <td style="width: 50%;">Proper Shipping Name: Batteries, wet, filled with acid</td> <td style="width: 50%;">Packing Group: N/A</td> </tr> <tr> <td>Hazardous Class: 8</td> <td>Label/Placard Required: Corrosive</td> </tr> <tr> <td>UN Identification: UN2794</td> <td></td> </tr> </table> <p>Contact your EnerSys representative for additional information regarding the classification of batteries.</p>	Proper Shipping Name: Batteries, wet, filled with acid	Packing Group: N/A	Hazardous Class: 8	Label/Placard Required: Corrosive	UN Identification: UN2794													
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<p>IV. REGULATORY INFORMATION</p> <p>UNITED STATES:</p> <p>EPA SARA Title III:</p> <p><u>Section 302 EPCRA Extremely Hazardous Substances (EHS):</u></p> <p>Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs. EPCRA Section 302 notification is required if 1000 lbs or more of sulfuric acid is present at one site (40 CFR 370.10). For more information consult 40 CFR Part 355. The quantity of sulfuric acid will vary by battery type. Contact your EnerSys representative for additional information.</p> <p><u>Section 304 CERCLA Hazardous Substances:</u></p> <p>Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.</p> <p><u>Section 311/312 Hazard Categorization:</u></p> <p>EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric 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 information consult 40 CFR 370.10 and 40 CFR 370.40</p> <p><u>Section 313 EPCRA Toxic Substances:</u></p> <p>40 CFR section 372.38 (b) states: If a toxic chemical is present in an article at a covered facility, a person is not required to consider the quantity of the toxic chemical present in such article when determining whether an applicable threshold has been met under § 372.25, § 372.27, or § 372.28 or determining the amount of release to be reported under § 372.30. This exemption applies whether the person received the article from another person or the person produced the article. However, this exemption applies only to the quantity of the toxic chemical present in the article.</p> <p><u>Supplier Notification:</u></p> <p>This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements. 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:</p> <table style="width:100%; border: none; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;"><u>Toxic Chemical</u></th> <th style="text-align: left;"><u>CAS Number</u></th> <th style="text-align: left;"><u>Approximate % by Wt.</u></th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>7439-92-1</td> <td>60</td> </tr> <tr> <td>Electrolyte (Sulfuric Acid (H₂SO₄/H₂O))</td> <td>7664-93-9</td> <td>10 - 30</td> </tr> <tr> <td>* Antimony</td> <td>7440-36-0</td> <td>2</td> </tr> <tr> <td>* Arsenic</td> <td>7440-38-2</td> <td>0.2</td> </tr> <tr> <td>Tin</td> <td>7440-31-5</td> <td>0.2</td> </tr> </tbody> </table> <p>See 40 CRG Part 370 for more details.</p> <p>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.</p> <p>The Section 313 supplier notification requirement does not apply to batteries, which are "consumer products".</p> <p>* Not present in all battery types. Contact your EnerSys representative for additional information.</p>	<u>Toxic Chemical</u>	<u>CAS Number</u>	<u>Approximate % by Wt.</u>	Lead	7439-92-1	60	Electrolyte (Sulfuric Acid (H ₂ SO ₄ /H ₂ O))	7664-93-9	10 - 30	* Antimony	7440-36-0	2	* Arsenic	7440-38-2	0.2	Tin	7440-31-5	0.2
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Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

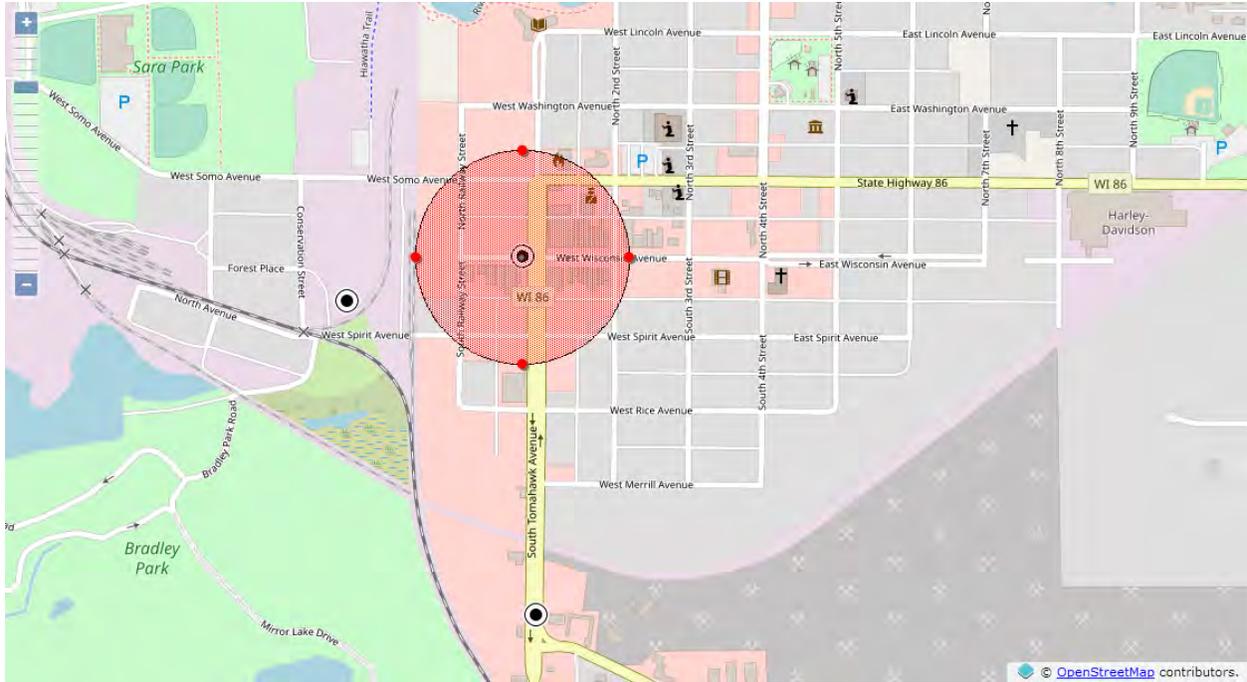
Form #: SDS 853020
 Revised: AB
 Supersedes: AA
 ECO #: 1001828

TSCA:	<p>TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.</p> <p>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.</p> <p>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).</p>				
RCRA:	<p>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.</p> <p>Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).</p>				
CAA:	<p>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 611 of 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.</p>				
STATE REGULATIONS (US):	<p>Proposition 65: 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 handling.</p>				
INTERNATIONAL REGULATIONS:	<p>Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).</p> <p>Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.</p>				
XVI. OTHER INFORMATION					
Revision: AB (04-25-17)					
NFPA Hazard Rating for Sulfuric Acid:	<table border="0"> <tr> <td>Flammability (Red) = 0</td> <td>Reactivity (Yellow) = 2</td> </tr> <tr> <td>Health (Blue) = 3</td> <td>Sulfuric acid is water-reactive if concentrated.</td> </tr> </table>	Flammability (Red) = 0	Reactivity (Yellow) = 2	Health (Blue) = 3	Sulfuric acid is water-reactive if concentrated.
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Health (Blue) = 3	Sulfuric acid is water-reactive if concentrated.				
DISCLAIMER					
<p>This Safety Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law, the manufacturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or other damages, arising out of the use of, or reliance on, this Safety Data Sheet.</p>					

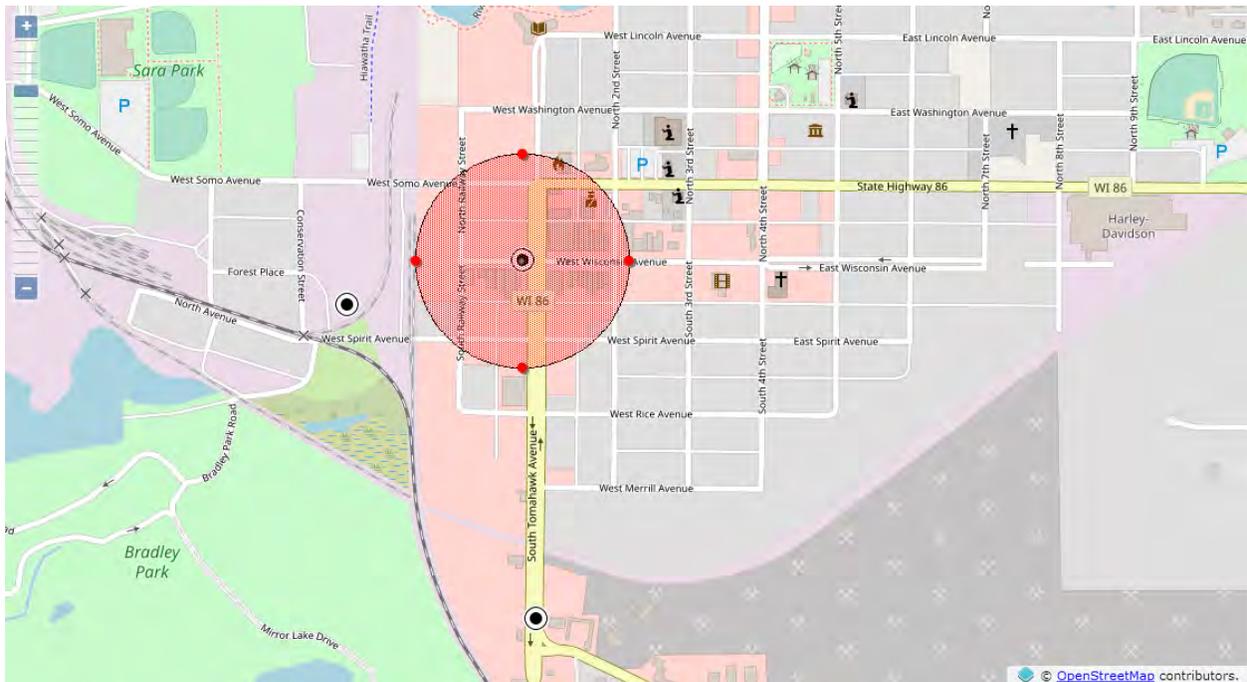
Attachment E

Vulnerability Zone Maps for Sulfuric Acid

A. Worst Case Scenario



B. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



**LINCOLN COUNTY
EMERGENCY MANAGEMENT**



FEMA



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**

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Table of Contents

I. Facility Information	4
II. Facility Emergency Contacts	4
III. Extremely Hazardous Substances (EHS).....	5
IV. Primary Emergency Responders.....	5
V. Support Available at Facility	6
VI. General information and Assumptions (Disclaimer)	7
VII. Hazard Analysis Summary	7
VIII. Population Protection.....	9
IX. Distribution List.....	10
X. Supporting Documentation	10
Attachment A, Record of Change and Review	11
Attachment B, Facility Layout and Site Information.....	12
Attachment C, Transportation Route Map.....	13
Attachment D, Safety Data Sheet for Sulfuric Acid	14
Attachment E, Vulnerability Zone Map for Sulfuric Acid	21

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@interflexgroup.com

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:	5,879 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 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 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

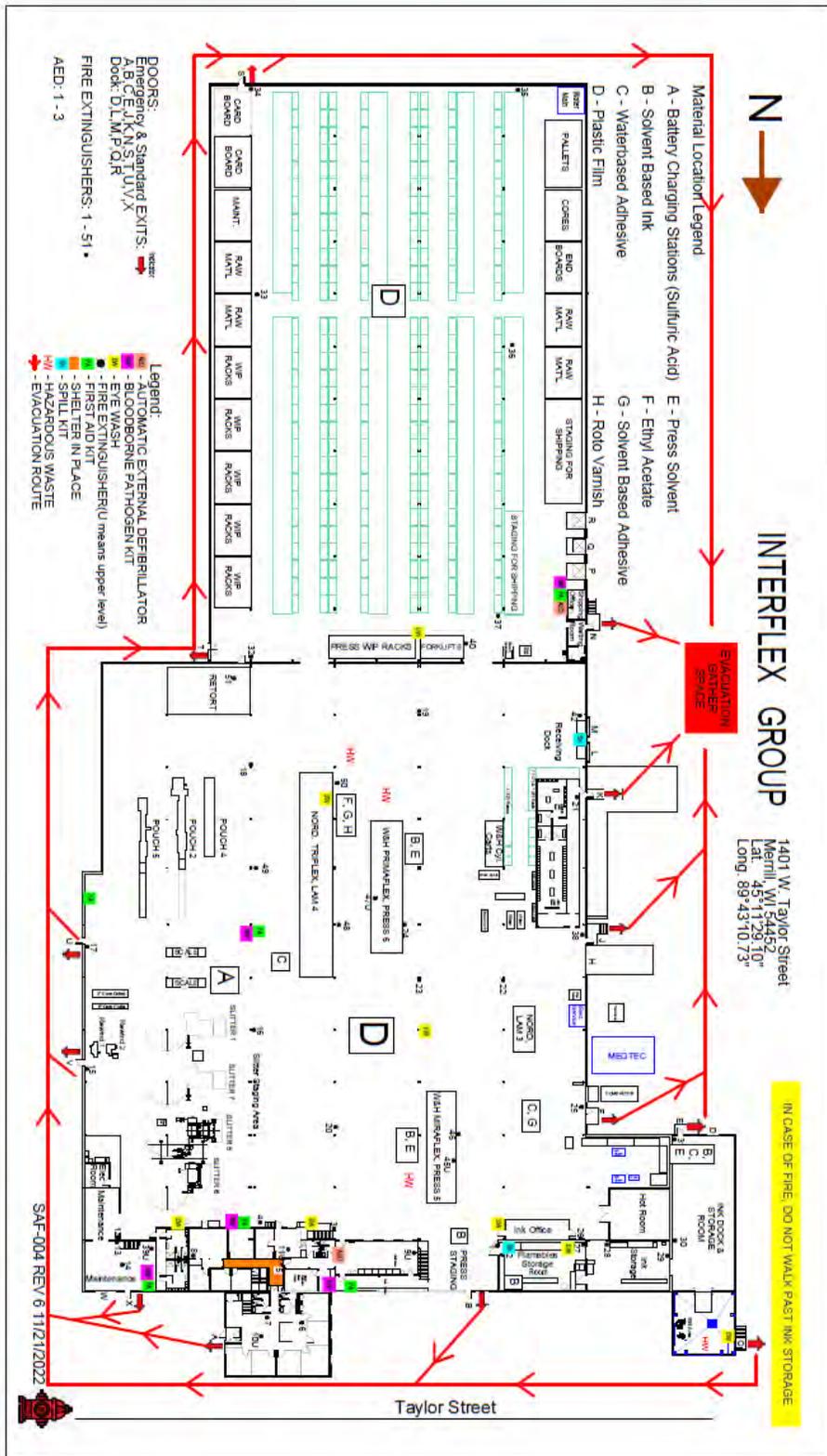
Record of Change/ Review /Signature

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

Facility Layout and Site Information



Attachment C
Transportation Route Map



Attachment D

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

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

I. PRODUCT IDENTIFICATION																																																	
Chemical Trade Name (as used on label): Lead-Acid Battery, Wet Synonyms: Industrial Battery, Traction Battery, Stationary Battery, Deep Cycle Battery Manufacturer's Name/Address: Hawker PowerSource P.O. Box 808 9404 Ooltewah Industrial Drive Ooltewah, TN 37363	Chemical Family/Classification: Electric Storage Battery Telephone: For information and emergencies, contact Hawker's Environmental, Health & Safety Dept. at 423-238-5700 ATTN: Kevin P. Wileman 24-Hour Emergency Response Contact: CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INTL: 703-527-3877																																																
II. GHS HAZARDS IDENTIFICATION																																																	
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Hazard Statements DANGER! Causes severe skin burns and serious eye damage. May damage fertility or the unborn child if ingested or inhaled. May cause cancer if ingested or inhaled. Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure. May form explosive air/gas mixture during charging. Extremely flammable gas (hydrogen). Explosive, fire, blast, or projection hazard. May cause harm to breast-fed children. Harmful if swallowed, inhaled, or contact with skin. Causes skin irritation, serious eye damage.	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/flame/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/INFORMATION ON INGREDIENTS																																																	
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Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020H
 Revised: AA (06-16-16)
 Supersedes: 05/14/2015
 ECO #: 1001755

Other:	Silicon Dioxide (Gel batteries only) Sheet Molding Compound (Glass reinforced polyester)	7631-86-9 ---	1-5	
Inorganic lead and electrolyte (sulfuric acid) are the primary components of every battery manufactured by Hawker. Other ingredients may be present dependent upon battery type. Contact your Hawker representative for additional information.				
IV. FIRST AID MEASURES				
Inhalation:				
Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician Lead: Remove from exposure, gargle, wash nose and lips; consult physician.				
Ingestion:				
Sulfuric Acid: Give large quantities of water; do not induce vomiting or aspiration into the lungs may 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 at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes Lead: Wash immediately with soap and water.				
Eyes:				
Sulfuric Acid and Lead: Flush immediately with large amounts of water for at least 15 minutes while lifting lids. Seek immediate medical attention if eyes have been exposed directly to acid.				
V. FIRE FIGHTING MEASURES				
Flash Point: N/A		Flammable Limits: LEL = 4.1% (Hydrogen Gas)		UEL = 74.2%
Extinguishing Media: CO2, foam, dry chemical. Do not use carbon dioxide directly on cells. Avoid breathing vapors. Use appropriate media for surrounding fire.				
Special Fire Fighting Procedures:				
If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing, gloves, face and eye protection. But note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.				
Unusual Fire and Explosion Hazards:				
Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.				
VI. ACCIDENTAL RELEASE MEASURES				
Spill or Leak Procedures:				
Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer. Acid must be managed in accordance with local, state, and federal requirements. Consult state environmental agency and/or federal EPA.				
VII. HANDLING AND STORAGE				
Handling:				
Unless involved in recycling operations, do not breach the casing or empty the contents of the battery. Handle carefully and avoid tipping, which may allow electrolyte leakage. There may be increasing risk of electric shock from strings of connected batteries. Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits. Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.				
Storage:				
Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat. Keep away from metallic objects could bridge the terminals on a battery and create a dangerous short-circuit.				
Charging:				
There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to 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. Wear face and eye protection when near batteries being charged.				

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 85-01204
 Revised: AA (06-16-16)
 Supersedes: 05/14/2015
 ECO #: 1001735

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION						
Exposure Limits (mg/m3) Note: N.E.= Not Established						
INGREDIENTS (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,e)
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.
Tar	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	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
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	N.E.	N.E.	N.E.	N.E.	1	N.E.
Polycarbonate, Hard Rubber, Polyethylene	N.E.	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)	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
NOTES:						
(b) As inhalable aerosol						
(c) Thoracic fraction						
(e) Based on OELs Of Austria, Belgium, Denmark, France, Netherlands, Switzerland, & U.K.						
Engineering Controls (Ventilation):						
Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing, eye and face protection when filling, charging or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge the batteries in areas with adequate ventilation. General dilution ventilation is acceptable.						
Respiratory Protection (NIOSH/MSHA approved):						
None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.						
Skin Protection:						
If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing and boots.						
Eye Protection:						
If battery case is damaged, use chemical goggles or face shield.						
Other Protection:						
In areas where sulfuric acid is handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply. Acid-resistant apron. Under severe exposure emergency conditions, wear acid-resistant clothing and boots. Face shield recommended when adding water or electrolyte to batteries, wash hands after handling.						
IX. PHYSICAL AND CHEMICAL PROPERTIES						
Properties Listed Below are for Electrolyte:						
Boiling Point:	203 - 240° F	Specific Gravity (H2O = 1):	1.215 to 1.350			
Melting Point:	N/A	Vapor Pressure (mm Hg):	10			
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1			
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A			
pH:	-1 to 2	Flash Point:	Below room temperature (as hydrogen gas)			
LEL (Lower Explosive Limit)	4.1% (Hydrogen)	UEL (Upper Explosive Limit)	74.2% (Hydrogen)			
Appearance and Odor:	Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.					

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020H
 Revised: AA (06-16-16)
 Supersedes: 05/14/2015
 ECO #: 1001735

X. STABILITY AND REACTIVITY	
Stability: Stable <u>X</u> Unstable _____	
This product is stable under normal conditions at ambient temperature	
Conditions To Avoid: Prolonged overcharge; sources of ignition.	
Incompatibility: (Materials to avoid)	
<p><u>Sulfuric Acid:</u> 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.</p> <p><u>Lead Compounds:</u> Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen and reducing agents.</p> <p><u>Arsenic compounds:</u> strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic arsenic to form the highly toxic gas-arsine.</p>	
Hazardous Decomposition Products:	
<p><u>Sulfuric Acid:</u> Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.</p> <p><u>Lead Compounds:</u> 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.</p>	
Hazardous Polymerization:	
Will not occur	
XI. TOXICOLOGICAL INFORMATION	
Routes of Entry:	
<p><u>Sulfuric Acid:</u> Harmful by all routes of entry.</p> <p><u>Lead Compounds:</u> Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapor or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.</p>	
Inhalation:	
<p><u>Sulfuric Acid:</u> Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.</p> <p><u>Lead Compounds:</u> Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.</p>	
Ingestion:	
<p><u>Sulfuric Acid:</u> May cause severe irritation of mouth, throat, esophagus and stomach.</p> <p><u>Lead Compounds:</u> Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.</p>	
Skin Contact:	
<p><u>Sulfuric Acid:</u> Severe irritation, burns and ulceration.</p> <p><u>Lead Compounds:</u> Not absorbed through the skin.</p> <p><u>Arsenic Compounds:</u> Contact may cause dermatitis and skin hyper pigmentation.</p>	
Eye Contact:	
<p><u>Sulfuric Acid:</u> Severe irritation, burns, cornea damage, and blindness.</p> <p><u>Lead Compounds:</u> May cause eye irritation.</p>	
Effects of Overexposure - Acute:	
<p><u>Sulfuric Acid:</u> Severe skin irritation, damage to cornea, upper respiratory irritation.</p> <p><u>Lead Compounds:</u> Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscular aches and weakness, sleep disturbances and irritability.</p>	
Effects of Overexposure - Chronic:	
<p><u>Sulfuric Acid:</u> Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.</p> <p><u>Lead Compounds:</u> 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 abnormal conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.</p>	
Carcinogenicity:	
<p><u>Sulfuric Acid:</u> The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as 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 the product, such as overcharging, may result in the generation of sulfuric acid mist.</p> <p><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></p> <p><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, this is approximately equivalent to GHS Category 1A.</p>	
Medical Conditions 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 diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.	

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

Form #: SDS 853020H
 Revised: AA (06-16-16)
 Supersedes: 03/14/2013
 ECO #: 1001735

<p>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 ballion) Elemental Arsenic: No data</p> <p>Oral LD50: Electrolyte: rat: 2140 mg/kg Elemental Lead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead ballion) Elemental Arsenic: LD50 mouse: 145 mg/kg Elemental Antimony: LD50 rat: 100 mg/kg</p> <p>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 food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.</p> <p>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.</p>
<p>XII. ECOLOGICAL INFORMATION</p> <p>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.</p> <p>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 ballion Arsenic: 24 hr LC50, freshwater fish (Carrusiusus marinus) >5000 g/L.</p> <p>Additional Information: No known effects on stratospheric ozone depletion. Volatile organic compounds: 0% (by Volume) Water Endangering Class (WGK): NA</p>
<p>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.</p> <p>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.</p> <p>Following local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.</p>
<p>XIV. TRANSPORT INFORMATION</p> <p>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.</p> <p>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</p> <p>Contact your Hawker representative for additional information regarding the classification of batteries.</p> <p>49 CFR 173.159(e) specifies that when transported by highway or rail, electric storage batteries containing electrolyte or corrosive battery fluid are not subject to 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; (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 batteries; and (4) The transport vehicle may not carry material shipped by any person other than the shipper of the batteries.</p> <p>If any of the above-referenced requirements are not met, the batteries must be shipped as fully-regulated Class 8 Corrosive hazardous materials.</p>

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET

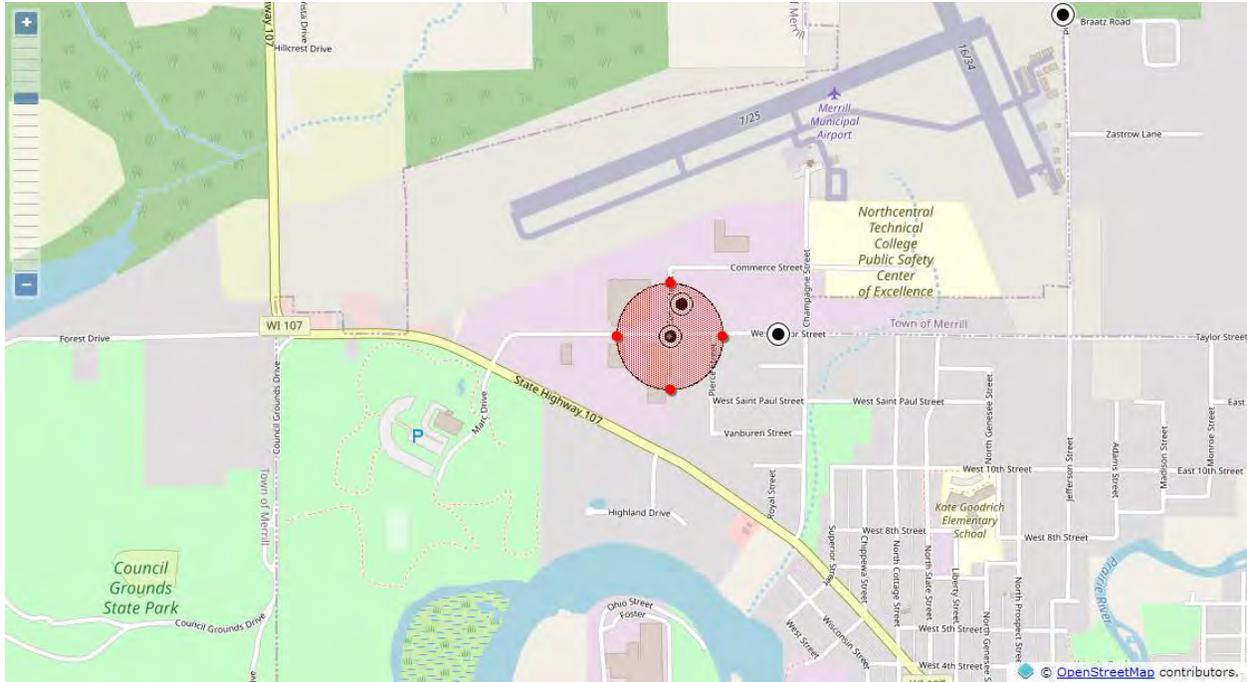
Form #: SDS 853020H
Revised: AA (06-16-16)
Supersedes: 05/14/2015
ECO #: 1001735

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 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 CFR part 273. Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous 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. Pursuant to Section 611 of 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 REGULATIONS (US): Proposition 65: 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 handling.
INTERNATIONAL 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.
XVI. OTHER INFORMATION Revised: AA (06-16-16)
NFPA Hazard Rating for Sulfuric Acid: Flammability (Red) = 0 Health (Blue) = 3 Reactivity (Yellow) = 2 Sulfuric acid is water-reactive if concentrated.
DISCLAIMER This Safety Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1201. To the extent allowed by law, the manufacturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or other damages, arising out of the use of, or reliance on, this Safety Data Sheet.

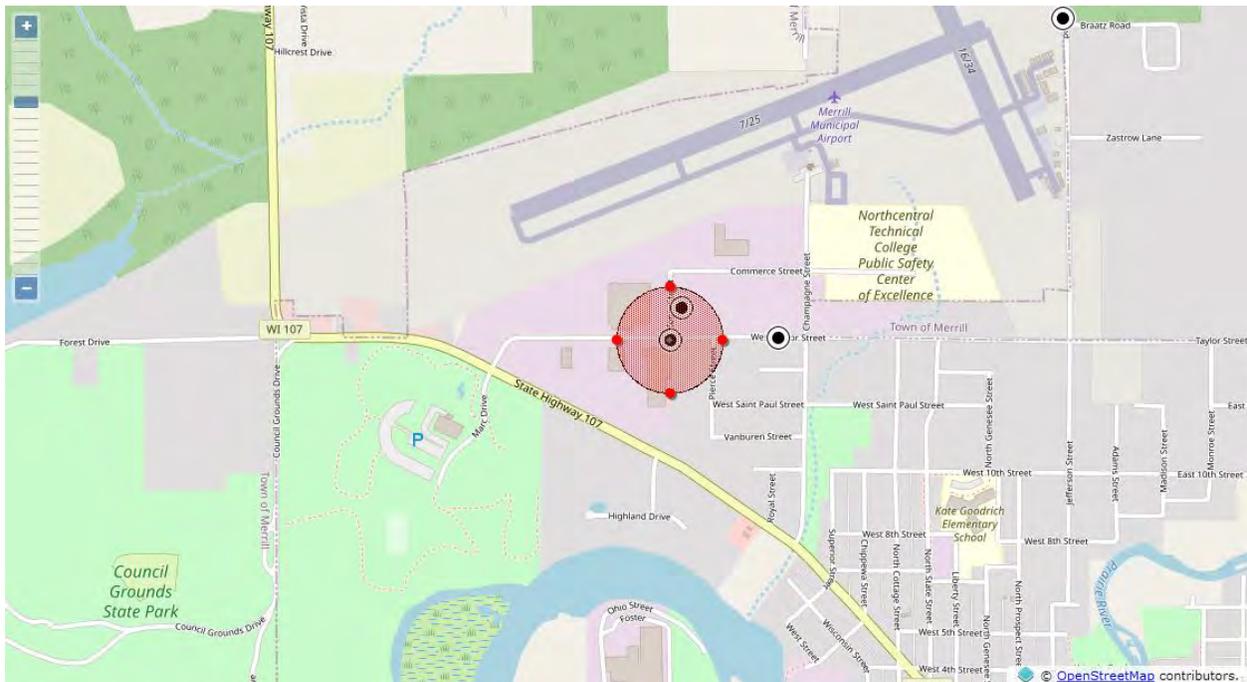
Attachment E

Vulnerability Zone Maps for Sulfuric Acid

A. Worst Case Scenario



B. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



LINCOLN COUNTY
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

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Table of Contents

I. Facility Information	4
II. Facility Emergency Contacts	4
III. Extremely Hazardous Substances (EHS).....	5
IV. Primary Emergency Responders.....	5
V. Support Available at Facility	6
VI. General information and Assumptions (Disclaimer)	7
VII. Hazard Analysis Summary	7
VIII. Population Protection.....	9
IX. Distribution List.....	10
X. Supporting Documentation	10
Attachment A, Record of Change and Review	11
Attachment B, Facility Layout and Site Information.....	12
Attachment C, Transportation Routes Map	13
Attachment D, Safety Data Sheet for Sulfuric Acid	14
Attachment E, Vulnerability Zone Map for Sulfuric Acid	21

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:	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 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

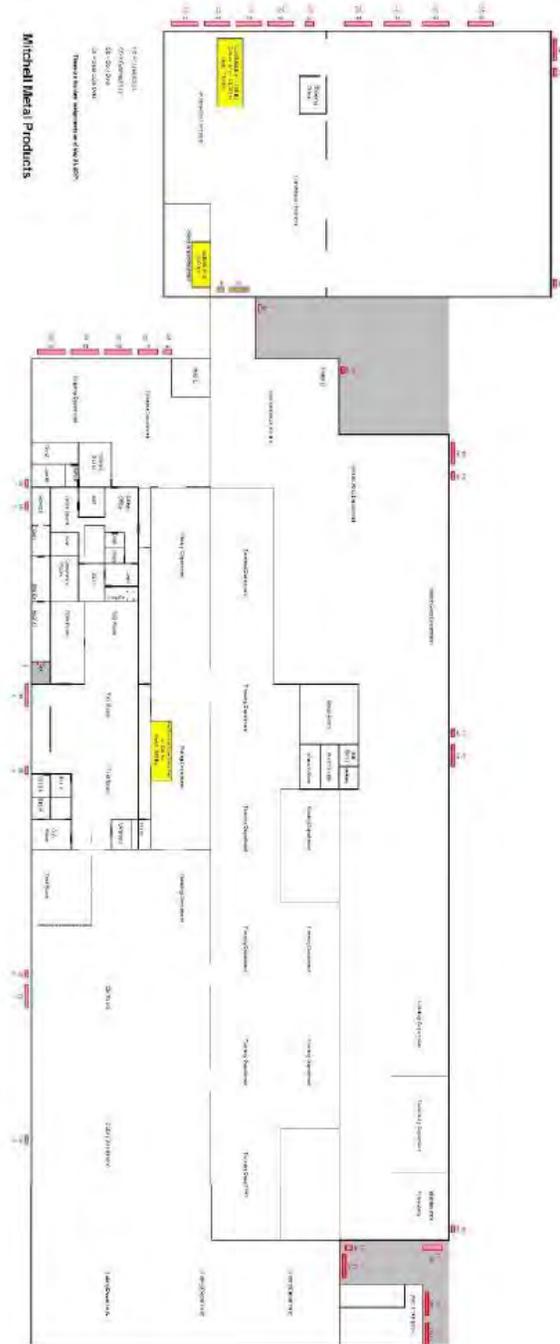
Record of Change/ Review /Signature

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 B

Facility Layout and Site Information



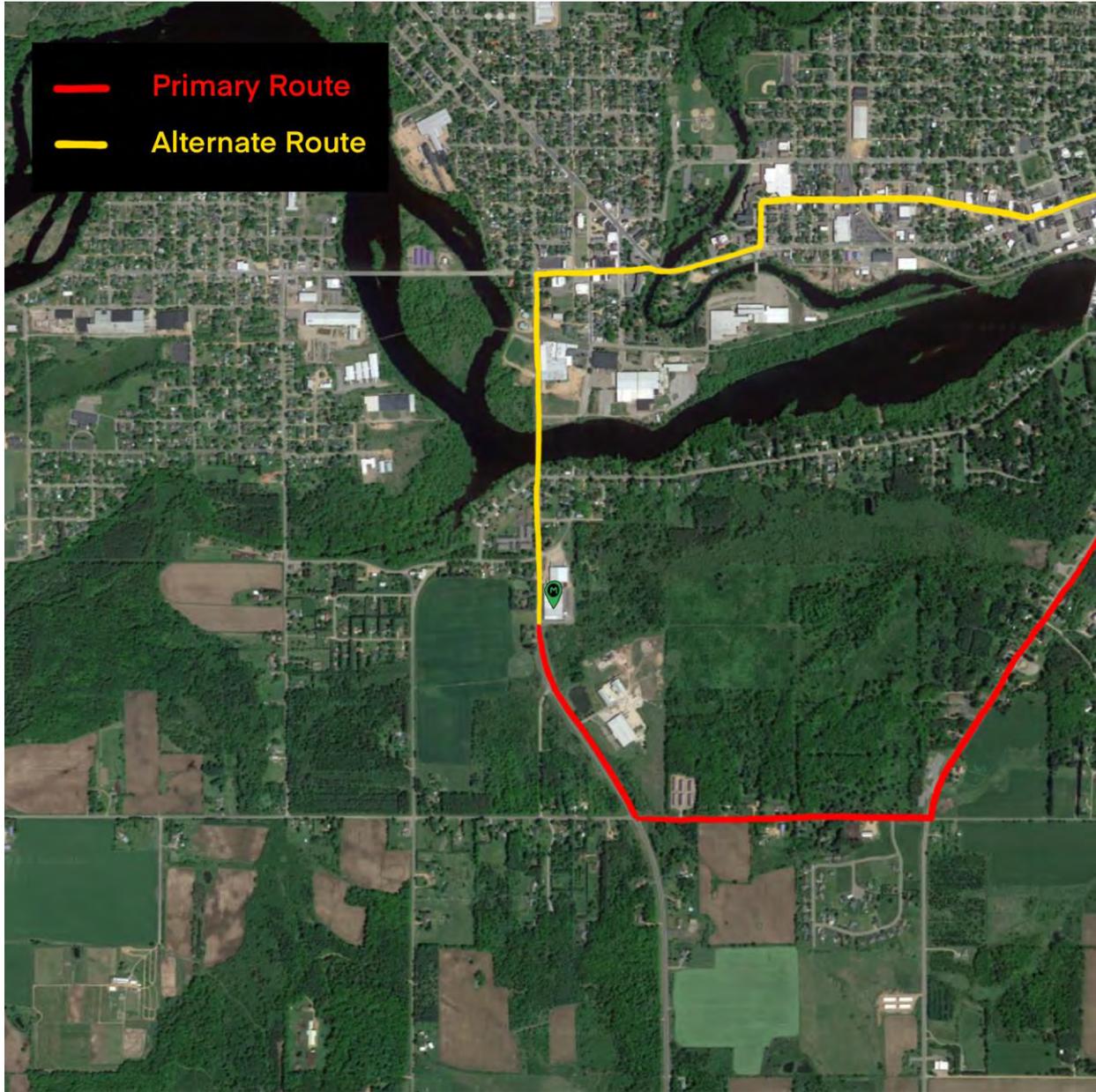
Mitchell Metal Products



MITCHELL METAL PRODUCTS
905 SOUTH STATE STREET
MERRILL, WISCONSIN 54451



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 of Vitriol; Hydrogen Sulfate
CAS Number: MIXTURE
Recommended Use: No data available.
Restrictions on Use: 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 Statements:

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

Attachment D, cont.

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 Otherwise Classified: None known.

Percentage of Components with Unknown Acute Toxicity:

Dermal: 93.2 %

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<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 artificial 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.

Attachment D, cont.

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 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. 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	Limits
Sulfuric Acid	1 mg/m ³ TWA

ACGIH Exposure Guidelines:

Attachment D, cont.

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)
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.

Attachment D, cont.

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	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric Acid	Rat: 2140 mg/kg	No Data	2H Rat: 510.0 mg/m3

Acute Toxicity Estimate (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

Attachment D, cont.

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: II
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 Section 311/312 Category Hazards:

	<u>Immediate (Acute)</u>	<u>Delayed (Chronic)</u>	<u>Fire Hazard</u>	<u>Pressure Release</u>		<u>Reactive</u>				
	Yes	Yes	No	No		Yes				
Regulated Components:				CAS	CERCLA	SARA	SARA	U.S.	WI	Prop.
Component				Number	RQ	EHS	313	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 System
Health: 3*
Flammability: 0
Reactivity: 2
 * = Chronic Health 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

Attachment D, cont.

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

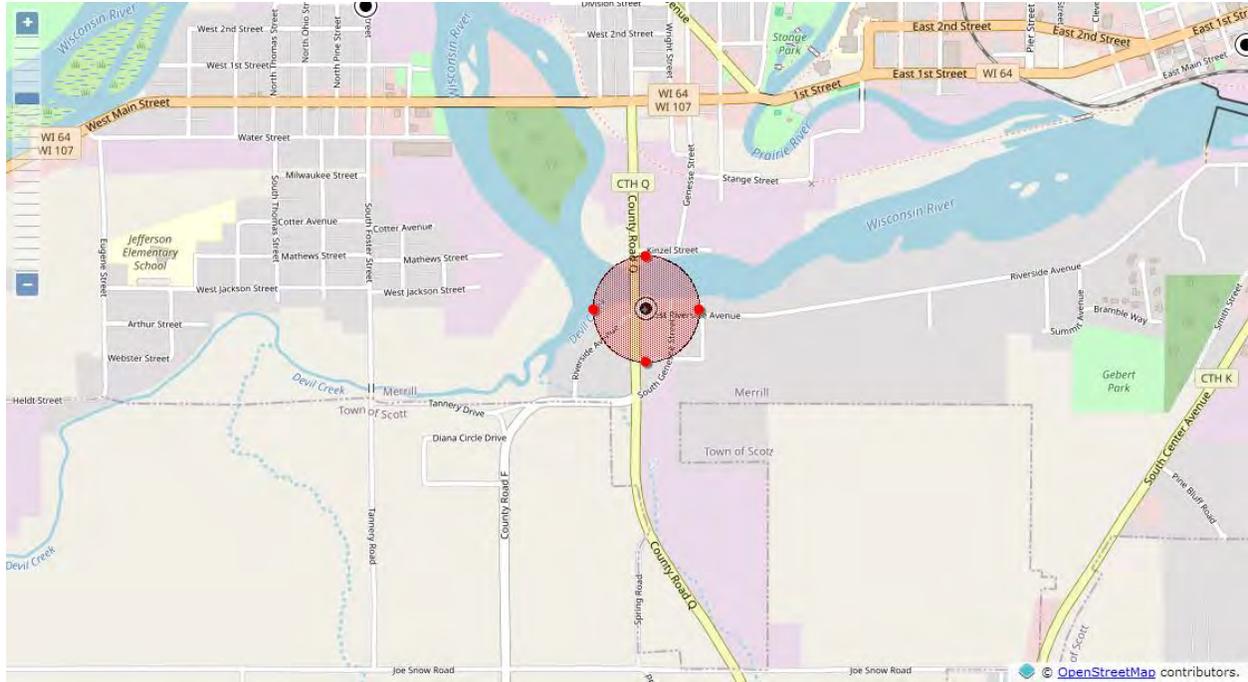
Replaces: 09-01-2011

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.

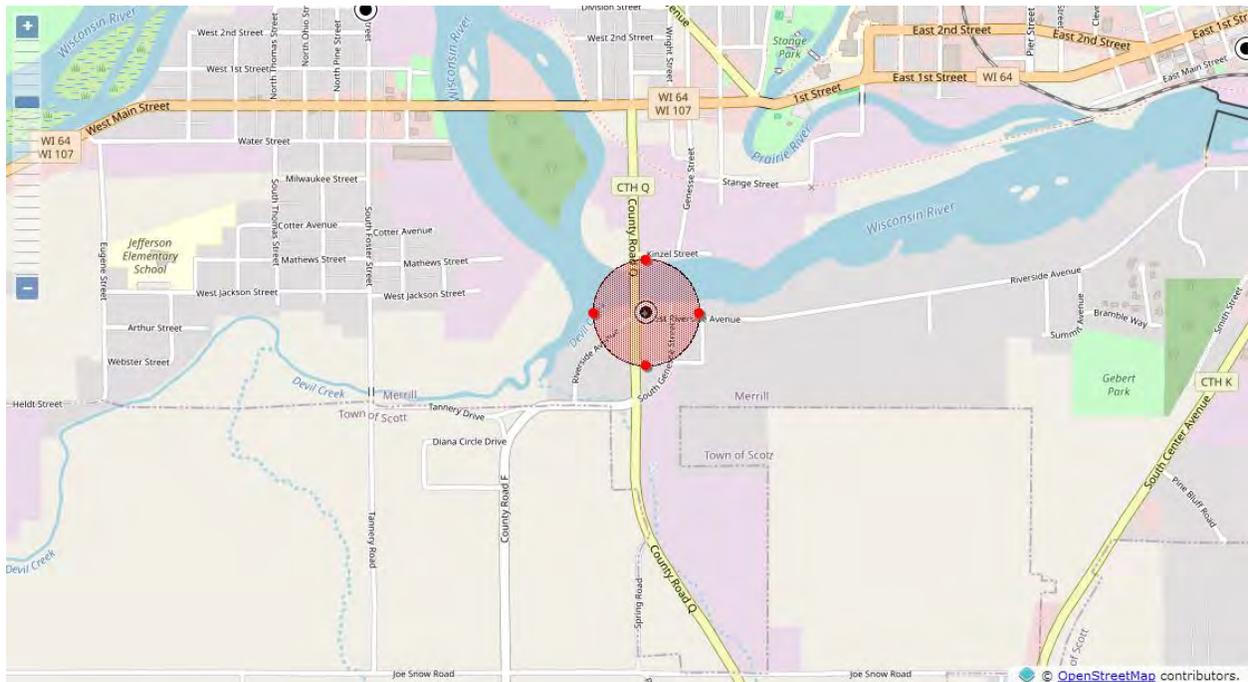
Attachment E

Vulnerability Zone Maps for Sulfuric Acid

A. Worst Case Scenario



B. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



LINCOLN COUNTY EMERGENCY MANAGEMENT



FEMA



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

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Table of Contents

I. Facility Information	4
II. Facility Emergency Contacts	4
III. Extremely Hazardous Substances (EHS).....	5
IV. Primary Emergency Responders.....	5
V. Support Available at Facility	6
VI. General information and Assumptions (Disclaimer)	7
VII. Hazard Analysis Summary	7
VIII. Population Protection.....	9
IX. Distribution List.....	10
X. Supporting Documentation	10
Attachment A, Record of Change and Review	11
Attachment B, Facility Layout and Site Information.....	12
Attachment C, Transportation Routes Map.....	13
Attachment D, Safety Data Sheet for Sulfuric Acid	14
Attachment E, Vulnerability Zone Map for Sulfuric Acid	21

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.		
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 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 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 C

Transportation Route Map



Attachment D

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET



Form #: SDS 853026
 Revised: 05/14/15
 Supersedes: NEW
 ECO #: 1001584

I. PRODUCT IDENTIFICATION		
Chemical Trade Name (as used on label): Aerospace and defense batteries manufactured using factory modified versions of Cyclon®, Genesis®, SBS, Hawker®, Armasafe Plus®, or Large TPPL.	Chemical Family/Classification: Sealed Lead Battery	
Synonyms: Sealed Lead Acid Battery, VRLA Battery	Telephone: For information and emergencies, contact EnerSys Energy Products Environmental, Health & Safety Dept. at 660-429-2165	
Manufacturer's Name/Address: EnerSys Energy Products Inc. (formerly Hawker Energy Products Inc.) 617 N. Ridgeview Drive Warrensburg, MO 64093-9301	24-Hour Emergency Response Contact: CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC INTL: 703-527-3877	
II. GHS HAZARDS IDENTIFICATION		
HEALTH	ENVIRONMENTAL	PHYSICAL
Acute Toxicity (Oral/Dermal/Inhalation) Category 4 Skin Corrosion/Irritation Category 1A Eye Damage Category 1 Reproductive Category 1A Carcinogenicity (lead compounds) Category 1B Carcinogenicity (acid mist) Category 1A Specific Target Organ Toxicity (repeated exposure) Category 2	Aquatic Chronic 1 Aquatic Acute 1	Explosive Chemical, Division 1.3
GHS LABEL:		
HEALTH	ENVIRONMENTAL	PHYSICAL
Hazard Statements DANGER! Causes severe skin burns and eye damage. Causes serious eye damage. May damage fertility or the unborn child if ingested or inhaled. May cause cancer if ingested or inhaled. Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure. May form explosive air/gas mixture during charging. Extremely flammable gas (hydrogen). Explosive, fire, blast, or projection hazard.	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. Causes skin irritation, serious eye damage. Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid. Irritating to eyes, respiratory system, and skin.	
III. HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION		
Components	CAS Number	Approximate % by Weight
Inorganic Lead Compound:		
Lead	7439-92-1	45 - 60
Lead Dioxide	1309-60-0	15 - 25
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	9003-53-6	
Styrene Acrylonitrile	9003-54-7	
Acrylonitrile Butadiene Styrene	9003-56-9	
Styrene Butadiene	9003-55-8	
Polyvinylchloride	9002-86-2	
Polycarbonate, Hard Rubber, Polyethylene	9002-88-4	
Polyphenylene Oxide	25134-01-4	
Polycarbonate/Polyester Alloy	--	
Other:		
Absorbent Glass Mat	--	1 - 2
Inorganic lead and sulfuric acid electrolyte are the primary components of every battery manufactured by EnerSys Energy Products. There are no mercury or cadmium containing products present in batteries manufactured by EnerSys Energy Products.		

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET



Form #: SDS 853026
 Revised: 05/14/15
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IV. FIRST AID MEASURES		
Inhalation:	<p><u>Sulfuric Acid:</u> Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician <u>Lead:</u> Remove from exposure, gargle, wash nose and lips; consult physician.</p>	
Ingestion:	<p><u>Sulfuric Acid:</u> Give large quantities of water; do not induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death; consult a physician. <u>Lead:</u> Consult physician immediately.</p>	
Skin:	<p><u>Sulfuric Acid:</u> Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes. <u>Lead:</u> Wash immediately with soap and water.</p>	
Eyes:	<p><u>Sulfuric Acid and Lead:</u> Flush immediately with large amounts of water for at least 15 minutes while lifting lids. Seek immediate medical attention if eyes have been exposed directly to acid.</p>	
V. FIRE FIGHTING MEASURES		
Flash Point: N/A	Flammable Limits: LEL = 4.1% (Hydrogen Gas)	UEL = 74.2% (Hydrogen Gas)
Extinguishing Media: Carbon dioxide; foam; dry chemical. Avoid breathing vapors. Use appropriate media for surrounding fire.		
Special Fire Fighting Procedures:		
<p>If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing, gloves, face and eye protection. Note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.</p>		
Unusual Fire and Explosion Hazards:		
<p>Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.</p>		
VI. PRECAUTIONS FOR SAFE HANDLING AND USE		
Spill or Leak Procedures:		
<p>Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer. Acid must be managed in accordance with local, state, and federal requirements. Consult state environmental agency and/or federal EPA.</p>		
VII. HANDLING AND STORAGE		
Handling:		
<p>Unless involved in recycling operations, do not breach the casing or empty the contents of the battery. There may be increasing risk of electric shock from strings of connected batteries. Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits. Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.</p>		
Storage:		
<p>Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat. Keep away from metallic objects which could bridge the terminals on a battery and create a dangerous short-circuit.</p>		
Charging:		
<p>There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to 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. Wear face and eye protection when near batteries being charged.</p>		

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET



Form #: SDS 853026
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 Supersedes: NEW
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VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION						
Exposure Limits (mg/m3) Note: N.E. = Not Established						
INGREDIENTS (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)
Tin	2	2	2	2	2	N.E.
Sulfuric Acid Electrolyte	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	N.E.	N.E.	N.E.	N.E.	1	N.E.
Polycarbonate, Hard Rubber, Polyethylene	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Polyphenylene Oxide	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Polycarbonate/Polyester Alloy Rubber, Polyethylene	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
Absorbent Glass Mat	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
NOTES:						
(b) As inhalable aerosol						
(c) Thoracic fraction						
Engineering Controls (Ventilation):						
Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing, eye and face protection when filling, charging or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge the batteries in areas with adequate ventilation. General dilution ventilation is acceptable.						
Respiratory Protection (NIOSH/MSHA approved):						
None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.						
Skin Protection:						
If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing and boots.						
Eye Protection:						
If battery case is damaged, use chemical goggles or face shield.						
Other Protection:						
Under severe exposure emergency conditions, wear acid-resistant clothing and boots.						
IX. PHYSICAL AND CHEMICAL PROPERTIES						
Properties Listed Below are for Electrolyte:						
Boiling Point:	203 - 240° F	Specific Gravity (H2O = 1):	1.215 to 1.350			
Melting Point:	N/A	Vapor Pressure (mm Hg):	10			
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1			
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A			
	pH: ~1 to 2	Flash Point:	Below room temperature (as hydrogen gas)			
LEL (Lower Explosive Limit)	4.1% (Hydrogen)	UEL (Upper Explosive Limit)	74.2% (Hydrogen)			
Appearance and Odor:	Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.					

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET



Form #: SDS 853026
 Revised: 05/14/15
 Supersedes: NEW
 ECO #: 1001584

X. REACTIVITY DATA	
Stability: Stable <input checked="" type="checkbox"/>	Unstable
This product is stable under normal conditions at ambient temperature.	
Conditions To Avoid: Prolonged overcharge; sources of ignition	
Incompatibility: (Materials to avoid)	
<p>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.</p> <p>Lead Compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent hydrogen and reducing agents.</p>	
Hazardous Decomposition Products:	
<p>Sulfuric Acid: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, and hydrogen sulfide.</p> <p>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.</p>	
Hazardous Polymerization:	
Will not occur	
XI. TOXICOLOGICAL INFORMATION	
Routes of Entry:	
<p>Sulfuric Acid: Harmful by all routes of entry.</p> <p>Lead Compounds: Hazardous exposure can occur only when product is heated, oxidized or otherwise processed or damaged to create dust, vapor or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.</p>	
Inhalation:	
<p>Sulfuric Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation.</p> <p>Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract and lungs.</p>	
Ingestion:	
<p>Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.</p> <p>Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.</p>	
Skin Contact:	
<p>Sulfuric Acid: Severe irritation, burns and ulceration.</p> <p>Lead Compounds: Not absorbed through the skin.</p>	
Eye Contact:	
<p>Sulfuric Acid: Severe irritation, burns, cornea damage, and blindness.</p> <p>Lead Compounds: May cause eye irritation.</p>	
Effects of Overexposure - Acute:	
<p>Sulfuric Acid: Severe skin irritation, damage to cornea, upper respiratory irritation.</p> <p>Lead Compounds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscle aches and weakness, sleep disturbances and irritability.</p>	
Effects of Overexposure - Chronic:	
<p>Sulfuric Acid: Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes.</p> <p>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 abnormal conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.</p>	
Carcinogenicity:	
<p>Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as 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 the product, such as overcharging, may result in the generation of sulfuric acid mist.</p> <p>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. <u>Proof of carcinogenicity in humans is lacking at present.</u></p>	
Medical Conditions 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 diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.	

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET



Form #: SDS 853026
Revised: 05/14/15
Supersedes: NEW
ECO #: 1001584

<p>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)</p> <p>Oral LD50: Electrolyte: rat: 2140 mg/kg Elemental lead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)</p> <p>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 food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.</p> <p>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.</p>
<p>XII. ECOLOGICAL INFORMATION</p> <p>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.</p> <p>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</p> <p>Additional Information: · No known effects on stratospheric ozone depletion. · Volatile organic compounds: 0% (by Volume) · Water Endangering Class (WGK): NA</p>
<p>XIII. DISPOSAL CONSIDERATIONS (UNITED STATES)</p> <p><u>Spent batteries:</u> 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.</p>
<p><u>Electrolyte:</u> 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.</p> <p>Following local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.</p>

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET



Form #: SDS 853026
 Revised: 05/14/15
 Supersedes: NEW
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XIV. TRANSPORT INFORMATION														
U.S. DOT: Excepted from the hazardous materials regulations (HMR) because the batteries meet the requirements of 49 CFR 173.159(f) and 49 CFR 173.159a of the U.S. Department of Transportation's HMR. Battery and outer package must be marked "NONSPILLABLE" or "NONSPILLABLE BATTERY". Battery terminals must be protected against short circuits.														
IATA Dangerous 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 RESTRICTED", SPECIAL PROVISION A67" must be provided when the air waybill is issued.														
IMDG: Excepted from the dangerous goods regulations for transport by sea because the batteries meet the requirements of Special Provision 238 of the International Maritime Dangerous Goods (IMDG CODE). Battery terminals must be protected against short circuits.														
Requirements for Safe Shipping and Handling of Cyclon Cells: Warning - Electrical Fire Hazard - Protect against shorting. Terminals can short and cause a fire if not insulated during shipping. Cyclon product must be labeled "NONSPILLABLE" during shipping. Follow all federal shipping regulations. See section IX of this sheet and CFR 49 Parts 171 through 180, available online at www.gpoaccess.gov .														
Requirements for Shipping Cyclon Product as Single Cells: Protective caps or other durable inert material must be used to insulate each terminal of each cell unless cells are shipping in the original packaging from EnerSys, in full box quantities. Protective caps are available for all cell sizes by contacting EnerSys Customer Service at 1-800-964-2837.														
Requirements for Shipping Cyclon Product Assembled into Multicell Batteries: Assembled batteries must have short circuit protection during shipping. Exposed terminals, connectors, or lead wires must be insulated with a durable inert material to prevent exposure during shipping.														
XV. REGULATORY INFORMATION														
UNITED STATES:														
EPA SARA Title III:														
Section 302 EPCRA Extremely Hazardous Substances (EHS): Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs. EPCRA Section 302 notification is required if 1000 lbs or more of sulfuric acid is present at one site (40 CFR 370.10). For more information consult 40 CFR Part 355. The quantity of sulfuric acid will vary by battery type. Contact your EnerSys representative for additional information.														
Section 304 CERCLA Hazardous Substances: Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.														
Section 311/312 Hazard Categorization: EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric 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 information consult 40 CFR 370.10 and 40 CFR 370.40.														
Section 313 EPCRA Toxic Substances: 40 CFR section 372.38 (b) states: If a toxic chemical is present in an article at a covered facility, a person is not required to consider the quantity of the toxic chemical present in such article when determining whether an applicable threshold has been met under § 372.25, § 372.27, or § 372.28 or determining the amount of release to be reported under § 372.30. This exemption applies whether the person received the article from another person or the person produced the article. However, this exemption applies only to the quantity of the toxic chemical present in the article.														
Supplier Notification: This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements. 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:														
<table border="1"> <thead> <tr> <th>Toxic Chemical</th> <th>CAS Number</th> <th>Approximate % by Wt.</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>7439-92-1</td> <td>45 - 60</td> </tr> <tr> <td>Sulfuric Acid Electrolyte (Sulfuric Acid/Water)</td> <td>7664-93-9</td> <td>15 - 20</td> </tr> <tr> <td>Tin</td> <td>7440-31-5</td> <td>0.1 - 0.2</td> </tr> </tbody> </table>	Toxic Chemical	CAS Number	Approximate % by Wt.	Lead	7439-92-1	45 - 60	Sulfuric Acid Electrolyte (Sulfuric Acid/Water)	7664-93-9	15 - 20	Tin	7440-31-5	0.1 - 0.2		
Toxic Chemical	CAS Number	Approximate % by Wt.												
Lead	7439-92-1	45 - 60												
Sulfuric Acid Electrolyte (Sulfuric Acid/Water)	7664-93-9	15 - 20												
Tin	7440-31-5	0.1 - 0.2												
See 40 CFR Part 370 for more details.														
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 notification requirement does not apply to batteries, which are "consumer products".														

Attachment D, cont.

Safety Data Sheet for Sulfuric Acid



SAFETY DATA SHEET



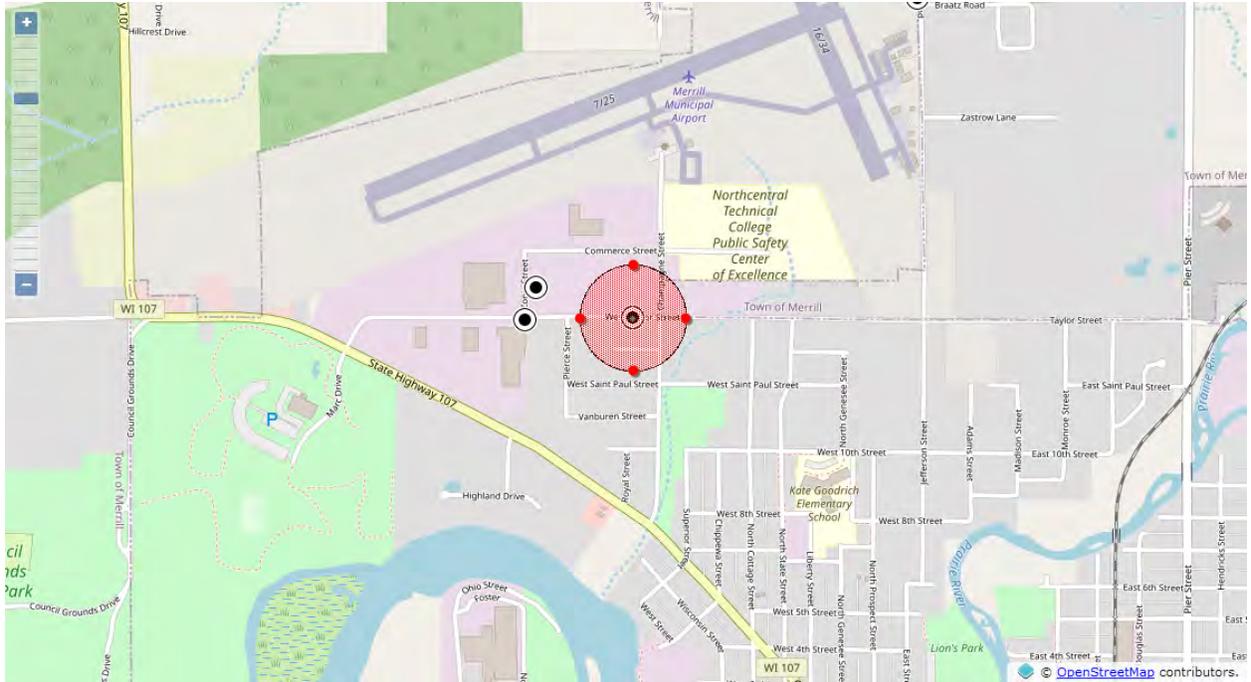
Form #: SDS 853026
 Revised: 05/14/15
 Supersedes: NEW
 ECO #: 1001584

TSCA:	<p>TSCA Section 8b - Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.</p> <p>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.</p> <p>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).</p>
RCRA:	<p>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.</p> <p>Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).</p>
CAA:	<p>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 611 of 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.</p>
STATE REGULATIONS (US):	<p>Proposition 65: 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 handling.</p>
INTERNATIONAL REGULATIONS:	<p>Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).</p> <p>Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.</p>
XVI. OTHER INFORMATION	
Revised: 05/14/2015	
NFPA Hazard Rating for Sulfuric Acid:	
Flammability (Red) = 0	Reactivity (Yellow) = 2
Health (Blue) = 3	Sulfuric acid is water-reactive if concentrated.

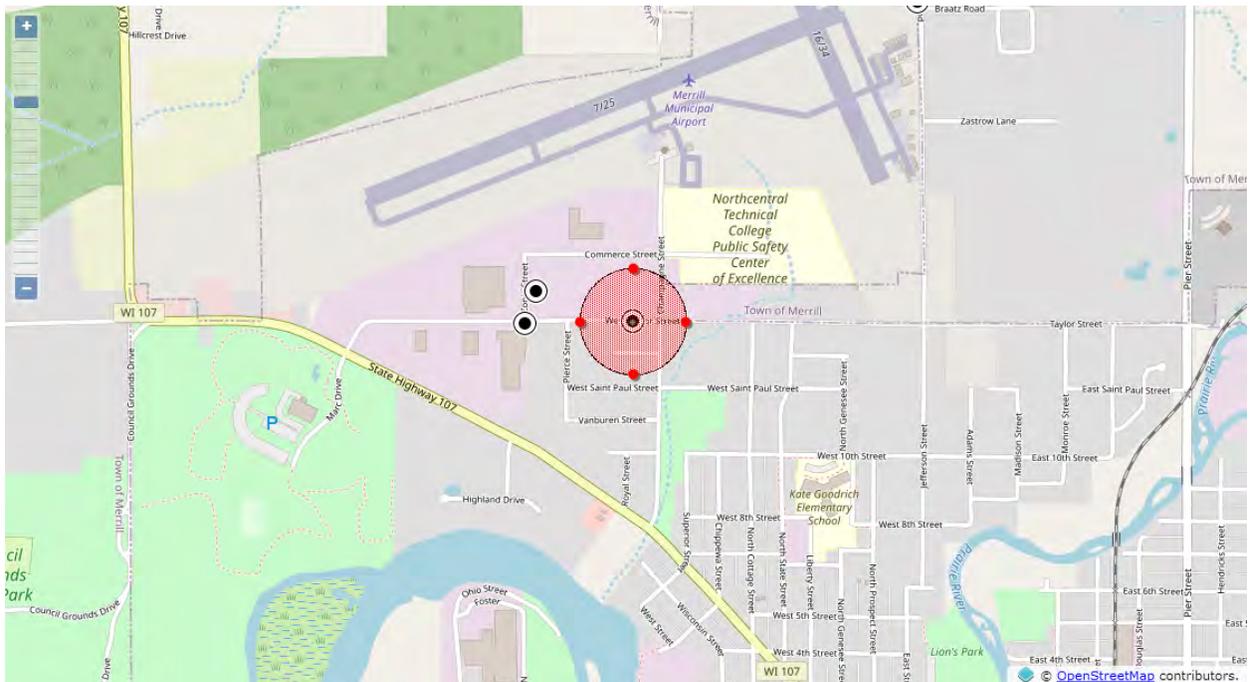
Attachment E

Vulnerability Zone Maps for Nitric Acid

A. Worst Case Scenario



B. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



LINCOLN COUNTY EMERGENCY MANAGEMENT



FEMA



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

DRAFT

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Table of Contents

I. Facility Information	4
II. Facility Emergency Contacts	4
III. Extremely Hazardous Substances (EHS).....	5
IV. Primary Emergency Responders.....	5
V. Support Available at Facility	6
VI. General information and Assumptions (Disclaimer)	7
VII. Hazard Analysis Summary	7
VIII. Population Protection.....	11
IX. Distribution List.....	12
X. Supporting Documentation.....	12
Attachment A, Record of Change and Review	13
Attachment B, Facility Layout and Site Information.....	14
Attachment C, Transportation Route Map	16
Attachment D, Safety Data Sheet for Ammonia (Aqueous).....	17
Attachment E, Safety Data Sheet for Sulfuric Acid (Battery Acid)	24
Attachment F, Vulnerability Zone Map for Ammonia (Aqueous).....	31
Attachment G, Vulnerability Zone Map Sulfuric Acid (Battery Acid).....	32

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: kneumann@packagingcorp.com

B. Tier II Emergency Coordinator:

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

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 24-hour 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 #7664-41-7			
Amount Released:	18,600 lbs.		
Concentration:	30%		
Physical State:	Gas		
Diked Area:	No		
Level of Concern (LOC):	0.035 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:	> 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 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

AMERCOR 1848 (Cyclohexanamine): CAS #108-91-8			
Amount Released:	12,000 lbs.		
Concentration:	30%		
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 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. 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

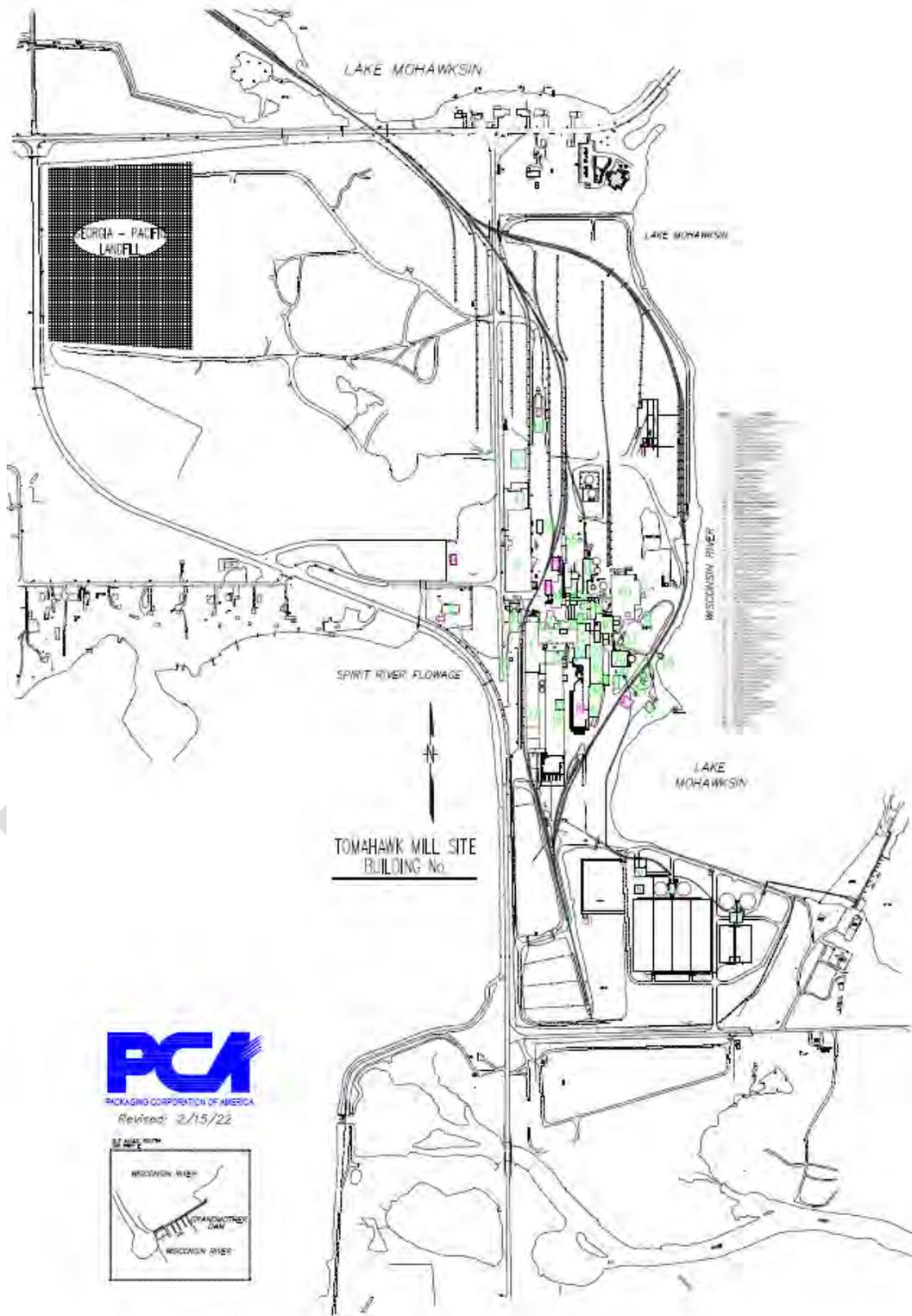
Date	Contributor	Description of Change	Page Number(s)

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

DRAFT

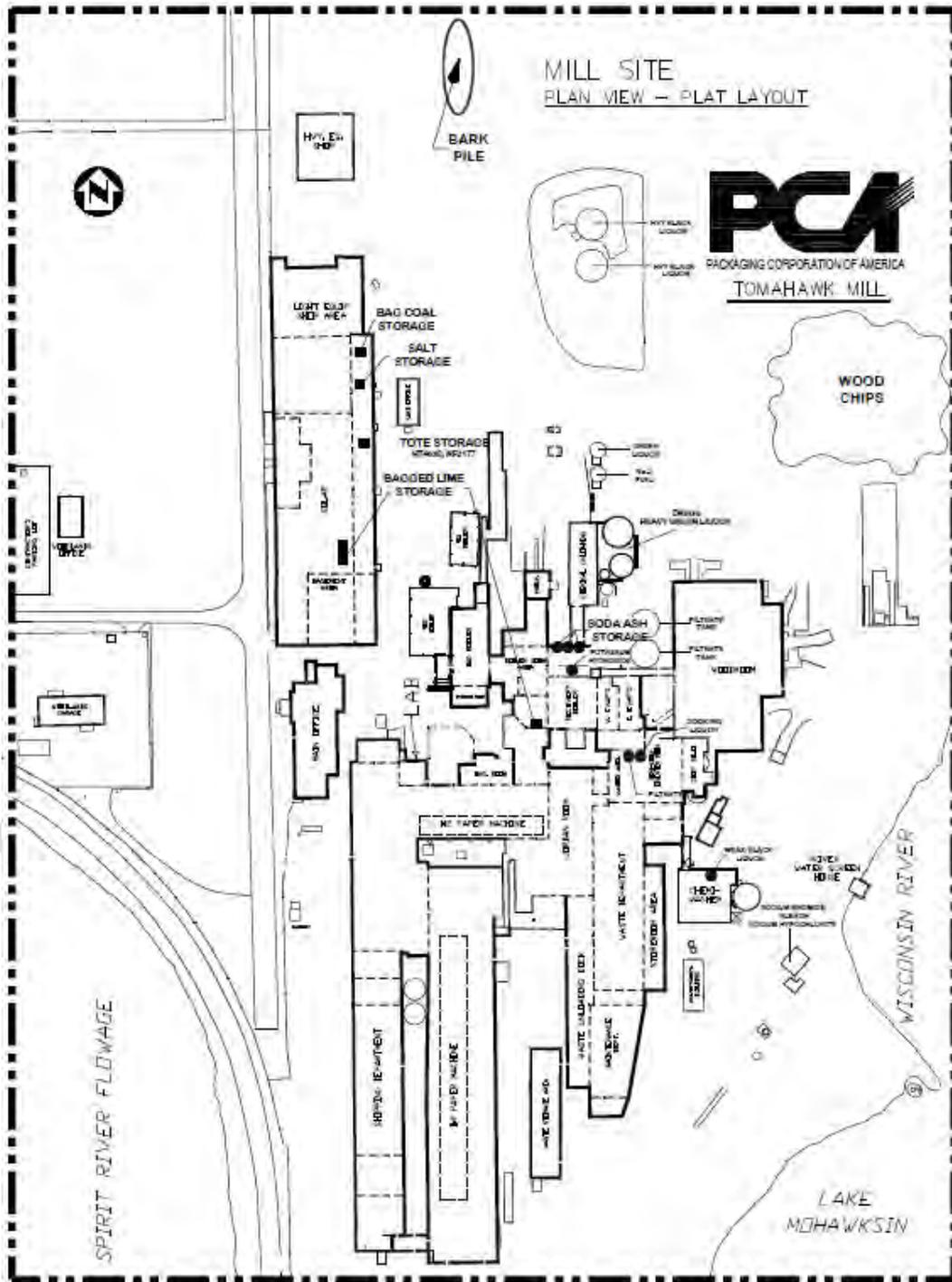
Attachment B

Facility Layout and Site Information



Attachment B cont.

Facility Layout and Site Information



TEIR-II 2/6/23
FILE:W:\558\SARA Teir2 Documents\2023:
Teir_II_1.Coal Site Layout.DWG

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

1. IDENTIFICATION

Product Identifier Used on the Label: AMMONIUM HYDROXIDE

Other Identifiers: Ammonium Hydroxide; Aqueous Ammonia; Ammonia Water; Ammonia Solution

Product ID: MIXTURE

Recommended Use: 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.

Restrictions on Use: 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) IDENTIFICATION

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 Statements:

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.

Attachment D, cont.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE
Product ID: NH0026

Immediately call a POISON CENTER or doctor/physician.
Specific treatment (see First Aid on SDS or on this label).
Wash contaminated clothing before reuse.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a secure manner.

Disposal: Dispose of in accordance with local, regional and international regulations.

Hazards not otherwise classified: May react with certain metals to form explosive/flammable hydrogen gas. May be corrosive to certain metals. Ammonium hydroxide is very volatile and may release ammonia as a gas. Ammonia vapor, in concentrations of 16-25% volume by weight in air, is flammable, toxic by inhalation and corrosive. Take all appropriate precautions.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances/Mixtures:

<u>Chemical or Common Name/Synonyms</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Ammonium Hydroxide	1336-21-6	~55 - 62%

Note: CONTAINS ~27-30% 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 liquefaction 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 ammoniacal 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:

<u>Component</u>	<u>Limits</u>
Ammonium Hydroxide	50 ppm TWA; 35 mg/m3 TWA

Attachment D, cont.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE
Product ID: NH0026

ACGIH Exposure Guidelines:

Component	Limits
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.

Attachment D, cont.

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 liquefaction 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.

Numerical Measures of Toxicity:

Component	Oral LD50	Dermal LD50	Inhalation LC50
Ammonium Hydroxide	Rat: 350 mg/kg	No Data	No Data

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.

Attachment D, cont.

Safety Data Sheet for Ammonia (Aqueous)

AMMONIUM HYDROXIDE

Product ID: NH0026

Other: Exposure to atmospheric concentrations of ammonia above 5000 ppm 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 Number	CERCLA RQ	SARA EHS	SARA 313	U.S. HAP	WI HAP	Prop. 65
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.

Attachment E

Safety Data Sheet for Sulfuric Acid (Battery Acid)



SAFETY DATA SHEET

Form #: SDS 853024
 Revised: 03/01/2010
 Supercedes: AC
 ECO #: 1002079

I. PRODUCT IDENTIFICATION

<p>Chemical Trade Name (as used on label): Non-Spillable Lead Acid Battery</p> <p>Synonyms: Industrial Battery, Traction Battery, Stationary Battery, Deep Cycle Battery</p> <p>Manufacturer's Name/Address: EnerSys P.O. Box 14145 2366 Bernville Road Reading, PA 19612-4145</p>	<p>Chemical Family/Classification: Electric Storage Battery</p> <p>Telephone: For information and emergencies, contact EnerSys' Environmental, Health & Safety Dept. at 610-208-1996</p> <p>24-Hour Emergency Response Contact: CHEMTREC DOMESTIC: 800-424-9300 CHEMTREC (INTL): 703-527-3877</p>
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II. GHS HAZARDS IDENTIFICATION

HEALTH	ENVIRONMENTAL	PHYSICAL
<p>Acute Toxicity (Oral/Dermal/Inhalation) Category 4</p> <p>Skin Corrosion/Irritation Category 1A</p> <p>Eye Damage Category 1</p> <p>Reproductive Category 1A</p> <p>Carcinogenicity (lead compounds) Category 1B</p> <p>Carcinogenicity (arsenic) Category 1A</p> <p>Carcinogenicity (acid mist) Category 1A</p> <p>Specific Target Organ Toxicity (repeated exposure) Category 2</p>	<p>Aquatic Chronic 1</p> <p>Aquatic Acute 1</p>	<p>Explosive Chemical, Division 1.3</p>

GHS LABEL:

HEALTH	ENVIRONMENTAL	PHYSICAL

<p>Hazard Statements:</p> <p>DANGER!</p> <p>Causes severe skin burns and serious eye damage.</p> <p>May damage fertility or the unborn child if ingested or inhaled.</p> <p>May cause cancer if ingested or inhaled.</p> <p>Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure.</p> <p>May form explosive air/gas mixture during charging.</p> <p>Extremely flammable gas (hydrogen).</p> <p>Explosive, fire, blast, or projection hazard.</p> <p>May cause harm to breast-feeding children.</p> <p>Harmful if swallowed, inhaled, or contact with skin.</p> <p>Causes skin irritation, serious eye damage.</p>	<p>Precautionary Statements:</p> <p>Wash thoroughly after handling.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Wear protective gloves/protective clothing, eye protection/face protection.</p> <p>Avoid breathing dust/fume/gas/mist/vapors/spray.</p> <p>Use only outdoors or in a well-ventilated area.</p> <p>Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid.</p> <p>Irritating to eyes, respiratory system, and skin.</p> <p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Avoid contact during pregnancy/while nursing.</p> <p>Keep away from heat/sparks/open flames/hot surfaces. No smoking.</p>
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III. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Approximate % by WL
Inorganic Lead Compound:		
Lead	7439-92-1	45-60
Lead Dioxide	1309-60-0	15-25
* Antimony	7440-36-0	±
* 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
Case Material:		
Polypropylene	9003-07-0	5-10
Polystyrene	9003-53-6	
Styrene Acrylonitrile	9003-54-7	
Acrylonitrile Butadiene Styrene	9003-56-9	
Styrene Butadiene	9003-55-8	
Polyvinylchloride	9002-86-2	
Polycarbonate, Hard Rubber, Polyethylene	9002-88-4	

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid (Battery Acid)



SAFETY DATA SHEET

Form #: SDS 853074
 Revised: 10/01/17
 Supersedes: AC
 ECU #: 100070

Other:	Silicon Dioxide (Gel batteries only) Sheet Molding Compound (Glass reinforced polyester)	7631-86-9 -	1-5	
Inorganic lead and electrolyte (sulfuric acid) are the primary components of every battery manufactured by EnerSys. Other ingredients may be present dependent upon battery type. Contact your EnerSys representative for additional information.				
IV. FIRST AID MEASURES				
Inhalation:				
Sulfuric Acid: Remove to fresh air immediately. If breathing is difficult, give oxygen. Consult a physician. Lead: Remove from exposure, gargle, wash nose and lips, consult physician.				
Ingestion:				
Sulfuric Acid: Give large quantities of water; do not induce vomiting or aspiration (into the lungs may 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 at least 15 minutes, remove contaminated clothing completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing before reuse. Discard contaminated shoes. Lead: Wash immediately with soap and water.				
Eyes:				
Sulfuric 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 exposed directly to acid.				
V. FIRE FIGHTING MEASURES				
Flash Point: N/A Flammable Limits: LEL = 4.1% (Hydrogen Gas) UEL = 74.2%				
Extinguishing Media: CO ₂ ; foam; dry chemical. Do not use carbon dioxide directly on cells. Avoid breathing vapors. Use appropriate media for surrounding fire.				
Special Fire Fighting Procedures:				
If batteries are on charge, shut off power. Use positive pressure, self-contained breathing apparatus. Water applied to electrolyte generates heat and causes it to spatter. Wear acid-resistant clothing, gloves, face and eye protection. But note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.				
Unusual Fire and Explosion Hazards:				
Highly flammable hydrogen gas is generated during charging and operation of batteries. To avoid risk of fire or explosion, keep sparks or other sources of ignition away from batteries. Do not allow metallic materials to simultaneously contact negative and positive terminals of cells and batteries. Follow manufacturer's instructions for installation and service.				
VI. ACCIDENTAL RELEASE MEASURES				
Spill or Leak Procedures:				
Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of unneutralized acid to sewer. Acid must be managed in accordance with local, state, and federal requirements. Consult state environmental agency and/or federal EPA.				
VII. HANDLING AND STORAGE				
Handling:				
Unless involved in recycling operations, do not breach the casing or empty the contents of the battery. Handle carefully and avoid tipping, which may allow electrolyte leakage. There may be increasing risk of electric shock from strings of connected batteries. Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits. Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water. Use banding or stretch wrap in secure means for shipping.				
Storage:				
Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills. Batteries should also be stored under roof for protection against adverse weather conditions. Separate from incompatible materials. Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks and heat. Keep away from metallic objects could bridge the terminals on a battery and create a dangerous short-circuit.				
Charging:				
There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to 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. Wear face and eye protection when near batteries being charged.				

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid (Battery Acid)



SAFETY DATA SHEET

Form #: SDS 853024
 Revised: AD 01/04/19
 Supersedes: AC
 ECO #: 0002970

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION						
Exposure Limits (mg/m ³) Note: N.E.= Not Established						
INGREDIENTS (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,e)
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	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.
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	N.E.	N.E.	N.E.	N.E.	1	N.E.
Polycarbonate, Hard Rubber, Polyethylene	N.E.	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)	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.

NOTES:
 (b) As inhalable aerosol
 (c) Thoracic fraction
 (e) Based on OELs Of Austria, Belgium, Denmark, France, Netherlands, Switzerland, & U.K.

Engineering Controls (Ventilation):
 Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously to avoid spills. Make certain vent caps are on securely. Avoid contact with internal components. Wear protective clothing, eye and face protection when filling, charging or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge the batteries in areas with adequate ventilation. General dilution ventilation is acceptable.

Respiratory Protection (NIOSH/MSHA approved):
 None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed the PEL, use NIOSH or MSHA-approved respiratory protection.

Skin Protection:
 If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing and boots.

Eye Protection:
 If battery case is damaged, use chemical goggles or face shield.

Other Protection:
 In areas where sulfuric acid is handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply. Acid-resistant apron. Under severe exposure emergency conditions, wear acid-resistant clothing and boots. Face shield recommended when adding water or electrolyte to batteries. Wash hands after handling.

IX. PHYSICAL AND CHEMICAL PROPERTIES			
Properties Listed Below are for Electrolyte:			
Boiling Point:	303 - 240° F	Specific Gravity (H ₂ O = 1):	1.215 to 1.350
Melting Point:	N/A	Vapor Pressure (mm Hg):	10
Solubility in Water:	100%	Vapor Density (AIR = 1):	Greater than 1
Evaporation Rate: (Butyl Acetate = 1)	Less than 1	% Volatile by Weight:	N/A
	pH: ~1 to 2	Flash Point:	Below room temperature (as hydrogen gas)
LEL (Lower Explosive Limit):	4.1% (Hydrogen)	UEL (Upper Explosive Limit):	74.2% (Hydrogen)
Appearance and Odor:	Mineralized article: no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.		

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid (Battery Acid)

	<p>SAFETY DATA SHEET</p>	<p>Form #: SDS 853024 Revised: AD 01/04/18 Supersedes: AC ECO #: 0002070</p>
<p>X. STABILITY AND REACTIVITY</p>		
<p>Stability: Stable X Unstable</p>		
<p>This product is stable under normal conditions at ambient temperature.</p>		
<p>Conditions To Avoid: Prolonged overcharge; sources of ignition</p>		
<p>Incompatibility: (Materials to avoid)</p>		
<p>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.</p>		
<p>Hazardous Decomposition Products:</p>		
<p>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.</p>		
<p>Hazardous Polymerization:</p>		
<p>Will not occur</p>		
<p>XI. TOXICOLOGICAL INFORMATION</p>		
<p>Routes of Entry:</p>		
<p>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 in crevice dust, vapor or fume. The presence of nascent hydrogen may generate highly toxic arsine gas.</p>		
<p>Inhalation:</p>		
<p>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.</p>		
<p>Ingestion:</p>		
<p>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 systemic toxicity and must be treated by a physician.</p>		
<p>Skin Contact:</p>		
<p>Sulfuric Acid: Severe irritation, burns and ulceration. Lead Compounds: Not absorbed through the skin. Arsenic Compounds: Contact may cause dermatitis and skin hyper pigmentation.</p>		
<p>Eye Contact:</p>		
<p>Sulfuric Acid: Severe irritation, burns, cornea damage, and blindness. Lead Compounds: May cause eye irritation.</p>		
<p>Effects of Overexposure - Acute:</p>		
<p>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.</p>		
<p>Effects of Overexposure - Chronic:</p>		
<p>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 abnormal conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.</p>		
<p>Carcinogenicity:</p>		
<p>Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as 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 the product, such as overcharging, may result in the generating 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 to 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, this is approximately equivalent to GHS Category 1A.</p>		
<p>Medical Conditions Generally Aggravated by Exposure:</p>		
<p>Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravate diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.</p>		

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid (Battery Acid)

	<p>SAFETY DATA SHEET</p>	<p>Form #: SDS 853024 Revised: AD 01/04/18 Supersedes: AC ECO #: 1002070</p>
<p>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</p>		
<p>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</p>		
<p>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 food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment. The 19th Amendment in EC Directive 67/548/EEC classifies 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.</p>		
<p>XII. ECOLOGICAL INFORMATION</p>		
<p>Environmental Fate: Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments is low. 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.</p>		
<p>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 (Carassius auratus): >5000 µg/L</p>		
<p>Additional Information: No known effects on stratospheric ozone depletion. Volatile organic compounds: 0% (by Volume) Water Endangering Class (WEC): NA</p>		
<p>XIII. DISPOSAL CONSIDERATIONS (UNITED STATES)</p>		
<p>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.</p>		
<p>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.</p>		

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid (Battery Acid)



SAFETY DATA SHEET

Form #: SDS 853024
 Revised: **AD 01/04/19**
 Supersedes: AC
 ECO #: 8002070

IV. TRANSPORT INFORMATION			
U.S. DOT: Excepted from the hazardous materials regulations (HMR) because the batteries meet the requirements of 49 CFR 173.159(f) and 49 CFR 173.159a of the U.S. Department of Transportation's HMR. Battery and outer package must be marked "NONSPILLABLE" or "NONSPILLABLE BATTERY". Battery terminals must be protected against short circuits.			
IATA Dangerous Goods Regulations DGR: Excepted from the dangerous goods regulations because the batteries meet the requirements of Packing Instruction 812 and Special Provision 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 RESTRICTED", SPECIAL PROVISION A67 must be provided on an airway bill when air waybill is issued.			
IMDG: Excepted from the dangerous goods regulations for transport by sea because the batteries meet the requirements of Special Provision 238 of the International Maritime Dangerous Goods (IMDG CODE). Battery terminals must be protected against short circuits.			
XV. REGULATORY INFORMATION			
UNITED STATES:			
EPA SARA Title III:			
Section 302 EPCRA Extremely Hazardous Substances (EHS): Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs. EPCRA Section 302 notification is required if 1000 lbs or more of sulfuric acid is present at one site (40 CFR 370.10). For more information consult 40 CFR Part 355. The quantity of sulfuric acid will vary by battery type. Contact your EnerSys representative for additional information.			
Section 304 CERCLA Hazardous Substances: Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.			
Section 311/312 Hazard Categorization: EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric 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 information consult 40 CFR 370.10 and 40 CFR 370.40.			
Section 313 EPCRA Toxic Substances: 40 CFR section 372.38 (b) states: If a toxic chemical is present in an article at a covered facility, a person is not required to consider the quantity of the toxic chemical present in such article when determining whether an applicable threshold has been met under § 372.25, § 372.27, or § 372.28 or determining the amount of release to be reported under § 372.30. This exemption applies whether the person received the article from another person or the person produced the article. However, this exemption applies only to the quantity of the toxic chemical present in the article.			
Supplier Notification: This product contains toxic chemicals, which may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements. <u>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:</u>			
	<u>Toxic Chemical</u>	<u>CAS Number</u>	<u>Approximate % by Wt.</u>
	Lead	7439-92-1	50
	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 CFR Part 370 for more details.		
	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 notification requirement does not apply to batteries, which are "consumer products".		
	* Not present in all battery types. Contact your EnerSys representative for additional information.		

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid (Battery Acid)



SAFETY DATA SHEET

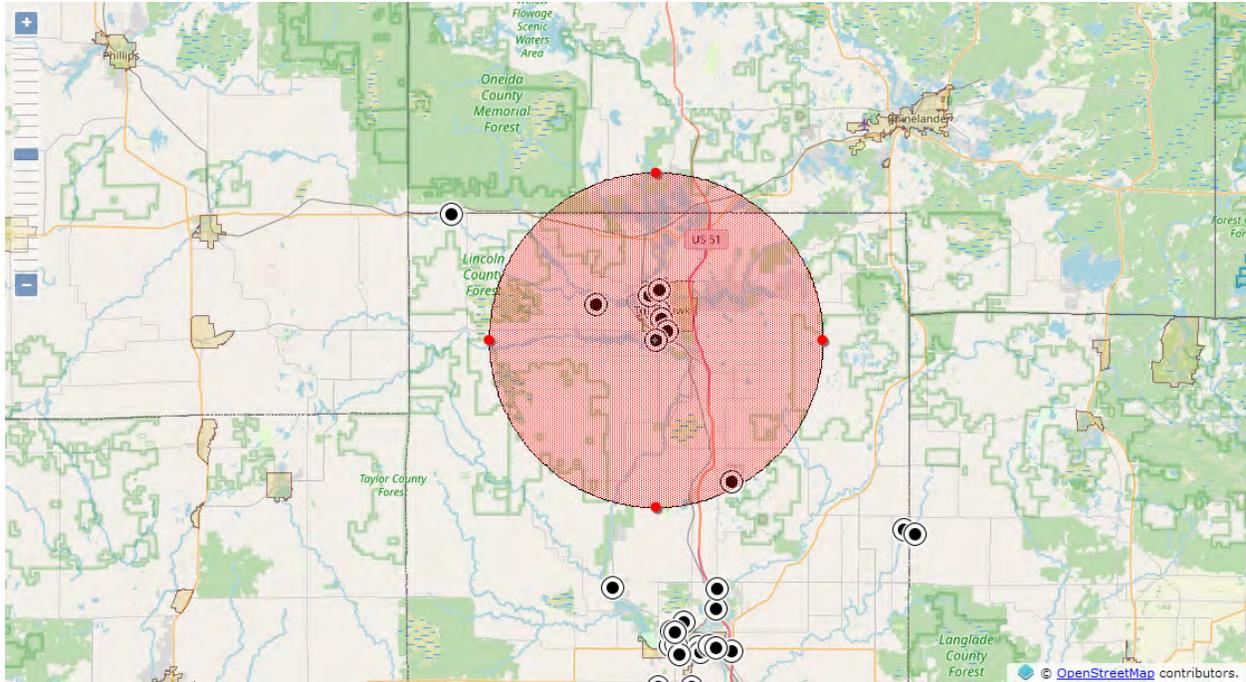
Form #: SDS 853024
 Revised: AD 01/04/19
 Supersedes: AC
 ECO #: 1002070

TSCA:	<p>TSCA Section 8(a) – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.</p> <p>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.</p> <p>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).</p>				
RCRA:	<p>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.</p> <p>Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).</p>				
CAA:	<p>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 611 of 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.</p>				
STATE REGULATIONS (US):	<p>Proposition 65: 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 handling.</p>				
INTERNATIONAL REGULATIONS:	<p>Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2).</p> <p>Distribution into the EU to follow applicable Directives in the List, Import/Export of the product as-sold.</p> <p>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 amount greater than 0.1% by weight.</p> <p>Effectively on 27th 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's Lead based battery products regardless of the design (Flooded, Gel, AGM, etc.).</p>				
XVI. OTHER INFORMATION	<p>Revised: AD 01/04/19</p>				
NFPA Hazard Rating for Sulfuric Acid:	<table border="0"> <tr> <td>Flammability (Red) = 0</td> <td>Reactivity (Yellow) = 2</td> </tr> <tr> <td>Health (Blue) = 3</td> <td>Sulfuric acid is water-reactive if concentrated.</td> </tr> </table>	Flammability (Red) = 0	Reactivity (Yellow) = 2	Health (Blue) = 3	Sulfuric acid is water-reactive if concentrated.
Flammability (Red) = 0	Reactivity (Yellow) = 2				
Health (Blue) = 3	Sulfuric acid is water-reactive if concentrated.				
DISCLAIMER	<p>This Safety Data Sheet is created by the manufacturer to comply with the requirements of 29 CFR 1910.1200. To the extent allowed by law, the manufacturer hereby expressly disclaims any liability to any third party, including users of this product, including, but not limited to, consequential or other damages, arising out of the use of, or reliance on, this Safety Data Sheet.</p>				

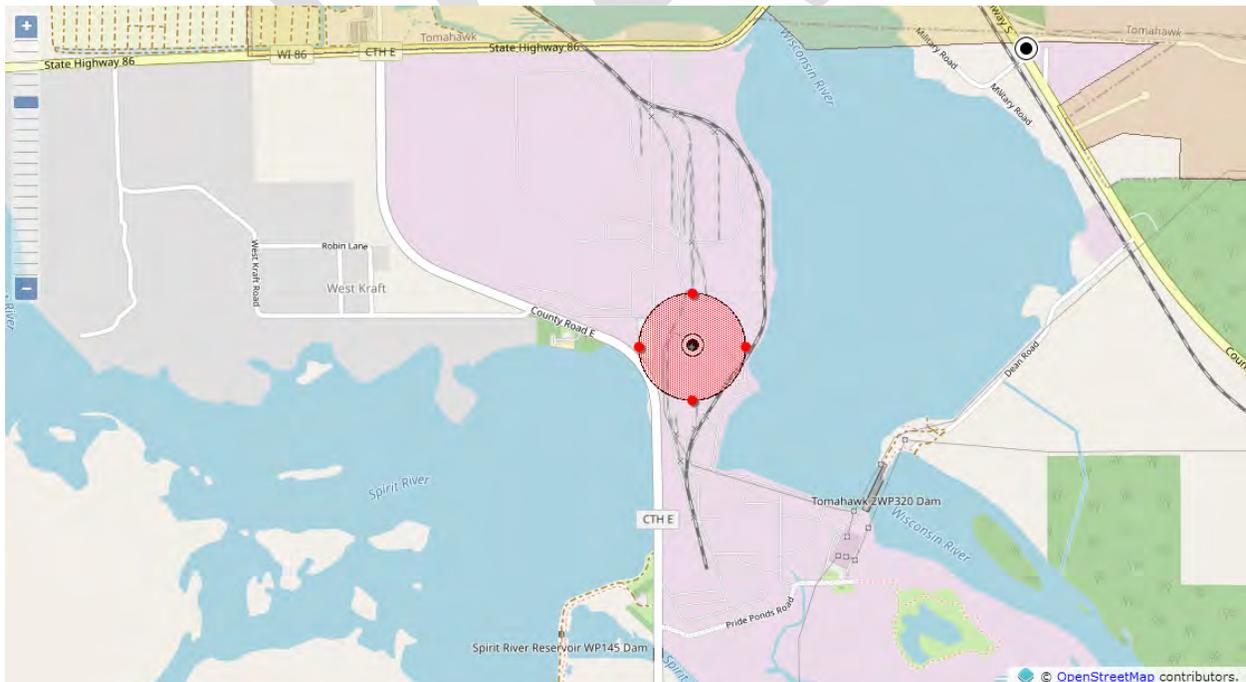
Attachment F

Vulnerability Zone Maps for Ammonia (Aqueous)

A. Worst Case Scenario



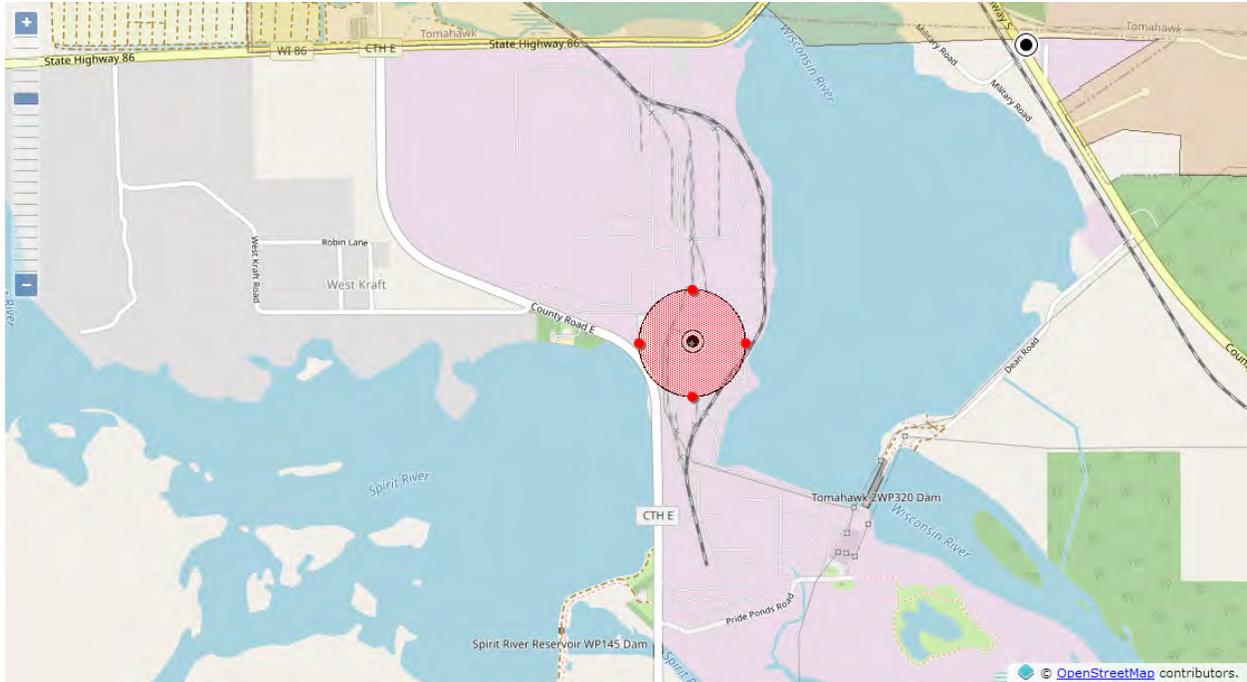
B. Re-evaluation Scenario



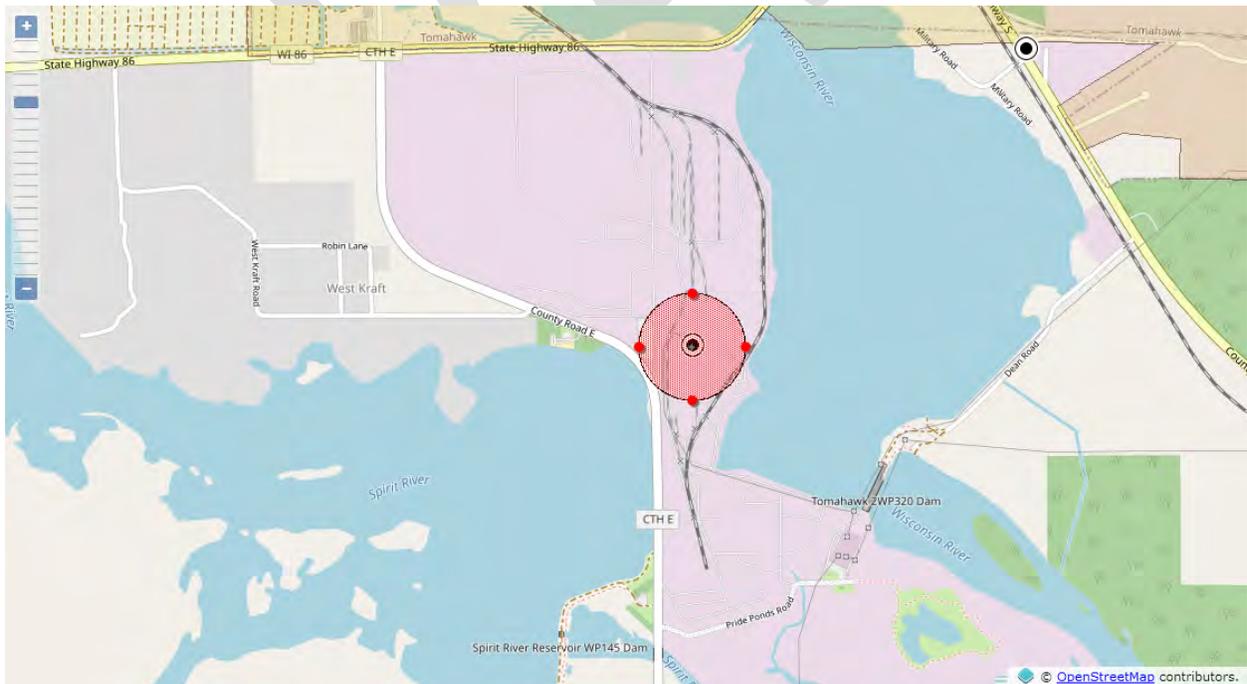
Attachment G

Vulnerability Zone Maps for Sulfuric Acid (Battery Acid)

C. Worst Case Scenario



D. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee (LEPC)



LINCOLN COUNTY
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

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Table of Contents

I. Facility Information	4
II. Facility Emergency Contacts	4
III. Extremely Hazardous Substances (EHS).....	5
IV. Primary Emergency Responders.....	5
V. Support Available at Facility	6
VI. General information and Assumptions (Disclaimer)	7
VII. Hazard Analysis Summary	7
VIII. Population Protection.....	9
IX. Special Considerations.....	10
X. Distribution List.....	11
XI. Supporting Documentation	11
Attachment A, Record of Change and Review	12
Attachment B, Facility Layout and Site Information.....	13
Attachment C, Transportation Routes Map	15
Attachment D, Safety Data Sheet for Nitric Acid.....	16
Attachment E, Safety Data Sheet for Sulfuric Acid.....	22
Attachment F, Vulnerability Zone for Nitric Acid.....	28
Attachment G, Vulnerability Zone for Sulfuric Acid.....	29

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:	900 lbs.		
Concentration:	64%		
Physical State:	Liquid (Ambient)		
Diked Area:	No		
Level of Concern (LOC):	0.026 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:	0.2 miles	Threat Zone Radius:	< 0.1 miles

Sulfuric Acid: CAS #7664-93-9			
Amount Released:	3,950 lbs.		
Concentration:	23.8%		
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 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.

IX. Special Considerations

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

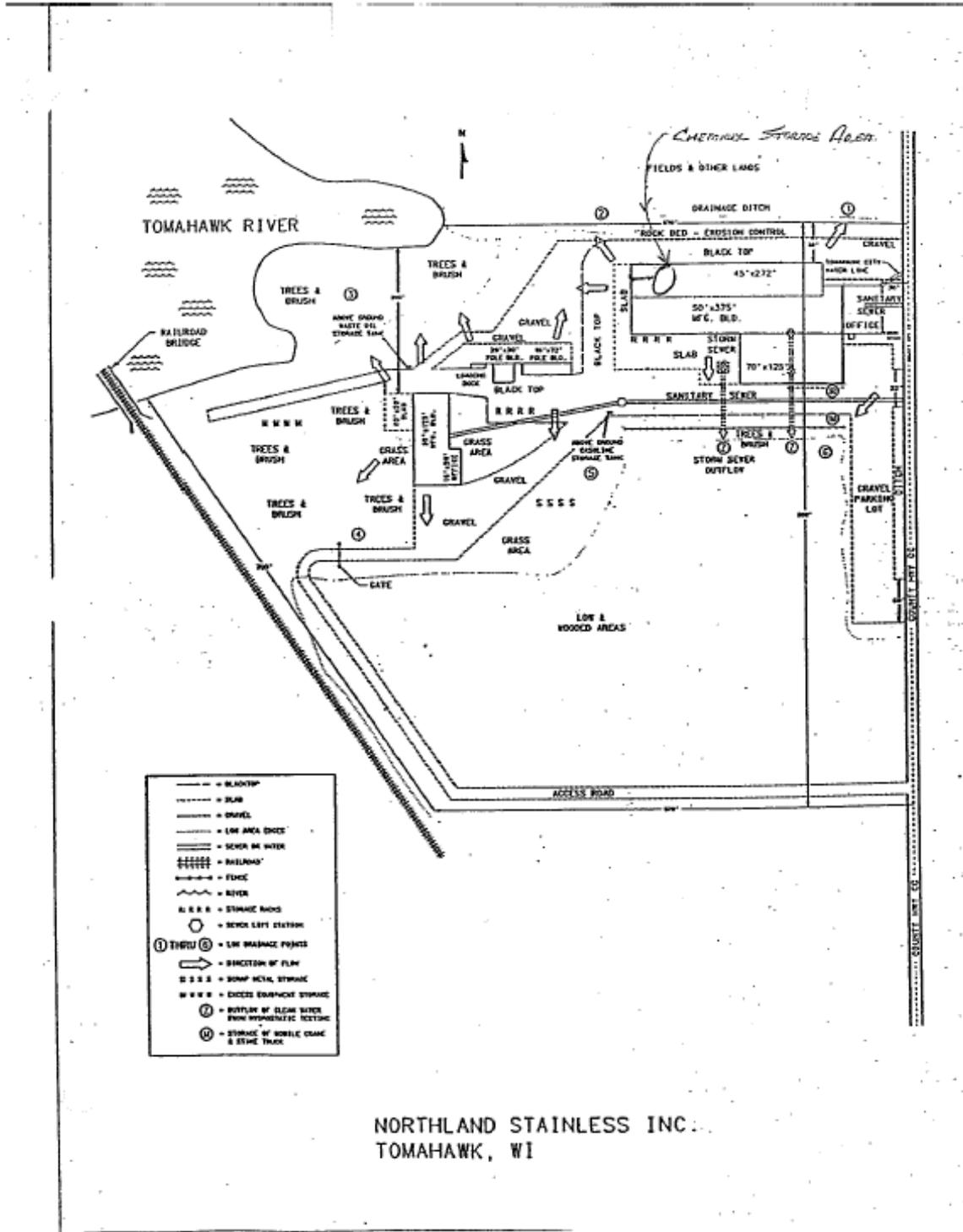
Record of Change/ Review /Signature

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.	

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

Safety Data Sheet for Nitric Acid

Wausau Chemical Corporation
Safety Data Sheet



Nitric Acid-64% (41 °Baume)

1. Product and Company Identification

Product Name	Nitric Acid-64% (41 °Baume)
Synonyms	Aqua fortis, azotic acid
MSDS Number	D13536
Company Identification	Wausau Chemical Corporation 2001 North River Drive Wausau, WI 54403
Telephone	Wausau Chemical Corporation – 715.842.2285 CHEMTREC – 800.424.9300

NFPA diamond and HMIS ratings for this product may be found in section 16 of this Safety Data Sheet.

2. Hazards Identification

Form	Liquid
Color	Colorless to light yellow
Odor	Pungent, irritating
OSHA/HCS Status	Material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200); corrosive, target organ effect (lungs, teeth, cardiovascular system)
GHS Classification	Oxidizing liquids (Category 3) Skin corrosion (Category 1A) Serious eye damage (Category 1)
Pictogram	Two GHS pictograms: one showing a flame (Oxidizing liquids) and one showing a hand being corroded (Skin corrosion).
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 materials. P221 Take any precaution to avoid mixing with combustibles. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ 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): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. 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. P501 Dispose of contents/ container to an approved waste disposal plant.

Attachment D, cont.

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

<u>Ingredient Name</u>	<u>CAS Number</u>	<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 Measures

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 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	Contain spillage, and then place in container for disposal according to local regulations.

Attachment D, cont.

Safety Data Sheet for Nitric Acid

Wausau Chemical Corporation
Safety Data Sheet



7. Handling and Storage

Handling Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
 Storage Keep containers tightly closed in a dry and well-ventilated area.

8. Exposure Controls/Personal Protection

Ingredient Name	ACGIH TLV	OSHA PEL
Nitric Acid	2 ppm – TWA	2 ppm – TWA
Engineering Measures	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Maintain adequate ventilation. Keep levels below exposure limits.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
Respiratory	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	Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards.	
Skin	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 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 O = 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:	X	Unstable:		Hazardous Polymerization:		Occurs:		Does Not Occur:	X
Conditions to Avoid	None known								
Materials to Avoid	Most metals, metallic powders, carbides, hydrogen sulfide, turpentine, organic acids, combustibles, organics, and readily oxidized materials.								
Decomposition Products	Nitrogen oxides and possible hydrogen.								

Attachment D, cont.

Safety Data Sheet for Nitric Acid

Wausau Chemical Corporation
Safety Data Sheet



11. Toxicological Information

Eye	Causes severe eye burns.
Nitric Acid	Eyes – no data available
Dermal	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)
Inhalation	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
Oral	Harmful if swallowed.
Nitric Acid	Oral LD50 – human – 430 mg/kg

Potential Chronic Health 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.
Mutagenicity	No data available
Teratogenicity	No data available
Fertility 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.

12. Ecological Information

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.

14. Transportation

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.

Attachment D, cont.

Safety Data Sheet for Nitric Acid

Wausau Chemical Corporation
Safety Data Sheet



US DOT 49 CFR 172.101	Non-bulk Shipments (Drums/Totes)	Bulk Shipments (Tank Trucks/Rail Cars)
Proper Shipping Name	Nitric Acid	Same
Hazard Class	8	Same
Identification Number	UN2031	Same
Packing Group	II	Same
Reportable Quantities	RQ=1000 lbs.	Same
Placards/Labels	Corrosive	Same

15. Regulatory Information

CERCLA / SARA Emergency Reporting	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. Nitric Acid CERCLA reporting amount – 1000 lbs.
SARA Title III Section 313	The following components are subject to reporting levels established by SARA Title III, Section 313: Nitric Acid (CAS# 7697-37-2)
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. Nitric 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. No components listed
State Regulations	
Massachusetts	RTK Substances: The following components are listed: Nitric Acid (CAS #7697-37-2)
New Jersey	RTK Substances: The following components are listed: Nitric Acid (CAS #7697-37-2)
Pennsylvania	RTK Substances: The following components are listed: Nitric Acid (CAS #7697-37-2)
California	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.

16. Other Information

Date of Issue	08/03/2015 8/19/2019 –updated TSCA statement, section 15 (RP)
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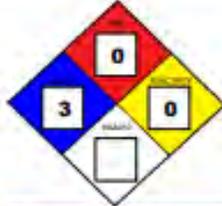
Attachment D, cont.

Safety Data Sheet for Nitric Acid

Wausau Chemical Corporation
Safety Data Sheet



NFPA



HMIS

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2
PPE	

Caution: NFPA and HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them.

The customer is responsible for determining the PPE code for this material.

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

1. Product and Company Identification

Product Name	Northland Electropolish
Synonyms	None
MSDS Number	D27458
Company Identification	Wausau Chemical Corporation 9919 Innovation Way Wausau, WI 54401
Telephone	Wausau Chemical Corporation – 715.842.2285 CHEMTREC – 800.424.9300

NFPA diamond and HMIS ratings for this product may be found in section 16 of this Safety Data Sheet.

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 Effects

Attachment E, cont.

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 severe 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 detailed information on health effects and symptoms

3. Composition/Information on Ingredients

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>WT %</u>
Sulfuric Acid	7664-93-9	23.8
Phosphoric Acid	7664-38-2	63.2
Water	7732-18-5	Balance

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 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 Measures

Flammability of the Product	Not flammable or combustible
Flash Point	Not applicable
Auto Ignition Temperature	Not applicable
<u>Extinguishing Media</u>	
Suitable	Dry chemical, carbon dioxide, alcohol resistant foam, or halon.
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 Measures

Personal Precautions	Use personal protective equipment. Avoid breathing vapor, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
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Attachment E, cont.

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 other acid neutralizing agent. Decontaminate the spill area thoroughly.

7. Handling and Storage

Handling Avoid inhalation of vapor or mist. Use in a well-ventilated area.

Storage Cannot be handled in metal containers. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls/Personal Protection

Inredient 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 hands 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 Chemical Properties

Appearance	Clear, colorless liquid
Odor	Pungent
pH	Less than 1
Water Solubility	Complete
Vapor Density (air = 1)	No data available
Evaporation rate (butyl acetate = 1)	No data available
Boiling Point	No data available
Freezing Point	No data available
Specific Gravity (@ 70 °F)	1.730
Vapor Pressure	No data available
Volatile Organic (VOC) Content	Not applicable

10. Stability and Reactivity

Stable: Unstable: Hazardous Polymerization: Occurs: Does Not Occur:

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid

Wausau Chemical Corporation
Safety Data Sheet



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.
Decomposition Products	Thermal decomposition products of the solution can include carbon monoxide, carbon dioxide, and oxides of sulfur.

11. Toxicological Information

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
Dermal	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 Skin corrosion/irritation: no data available
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. 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.
Sulfuric Acid	Inhalation LC50 – rat – 510 mg/m ³ – 2 hr.
Phosphoric Acid	Inhalation LC50 – no data available
Oral	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
Chronic 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 and Symptoms of Exposure	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)

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid

Wausau Chemical Corporation
Safety Data Sheet



Toxicity to aquatic invertebrates:

EC50 – Daphnia magna (water flea) – 29 mg/l – 24 h (sulfuric acid)

13. Disposal Considerations

Waste Disposal Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

RCRA The RCRA waste code of D002 (corrosive waste) should be assigned in discussion between the user, the producer, and the waste disposal company.

14. Transportation

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	II	Same
Reportable Quantities	Not applicable	Same
Placards/Labels	Corrosive	Same

15. Regulatory Information

CERCLA / SARA Emergency Reporting 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.

SARA Title III Section 313 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),

Attachment E, cont.

Safety Data Sheet for Sulfuric Acid

Wausau Chemical Corporation
Safety Data Sheet



Phosphoric Acid (CAS #7664-38-2)

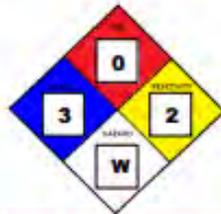
California

Proposition 65: WARNING! This product contains a chemical known to the State of California to cause cancer. Sulfuric Acid (CAS# 7664-93-9)

16. Other Information

Date of Issue 5/21/2015 | 8/13/2019-added precautionary statement P260, section 2 – updated TSCA statement, section 15 (ST) | 3/11/2021-updated address, section 1 (ST)

NFPA



HMIS

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2
PPE	

Caution: NFPA and HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them.

The customer is responsible for determining the PPE code for this material.

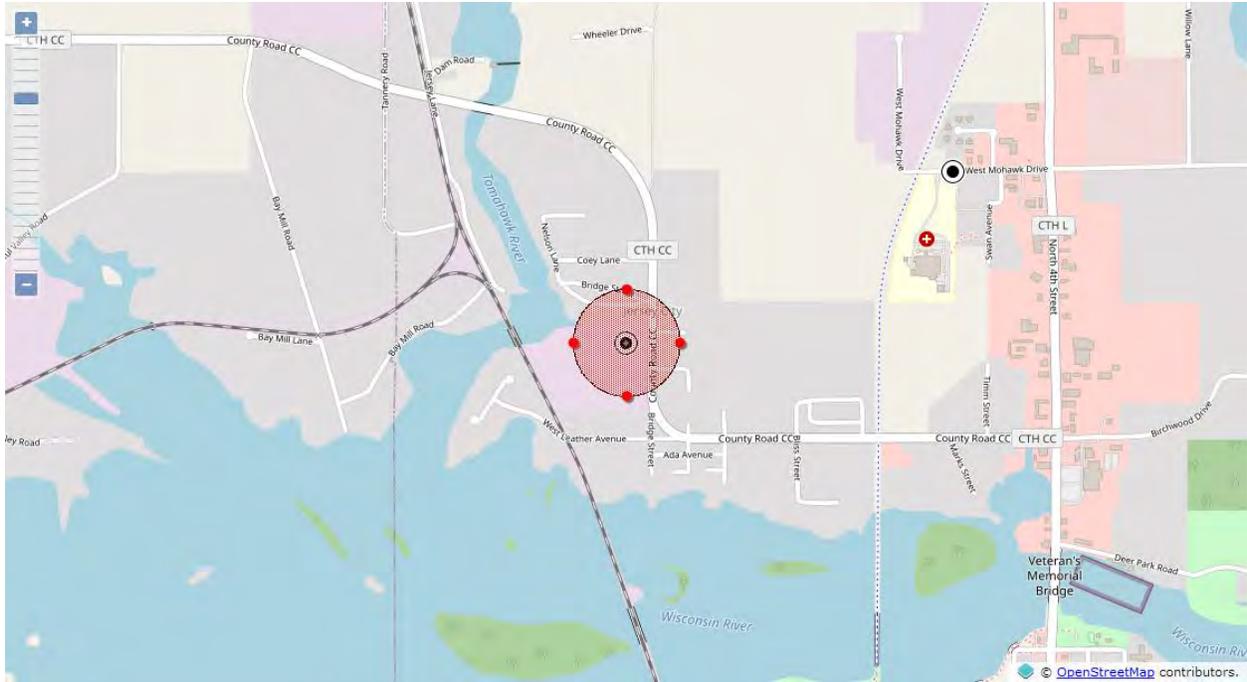
Notice to Reader

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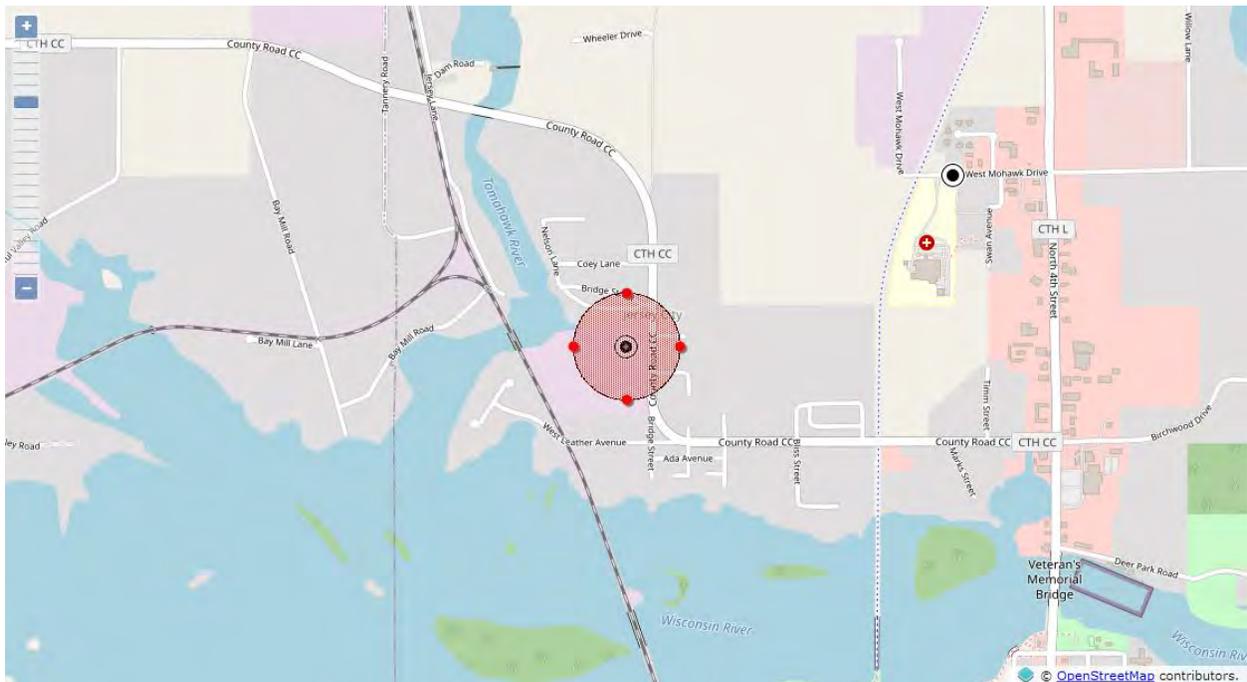
Attachment G

Vulnerability Zone Maps for Sulfuric Acid

C. Worst Case Scenario



D. Re-evaluation Scenario



Lincoln County: Local Emergency Planning Committee



LINCOLN COUNTY EMERGENCY MANAGEMENT



2023 EPCRA County Wide Hazardous Materials Strategic Plan

**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

DRAFT

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Table of Contents

I. Facility Information	Error! Bookmark not defined.
II. Facility Emergency Contacts	Error! Bookmark not defined.
III. Extremely Hazardous Substances (EHS).....	Error! Bookmark not defined.
IV. Primary Emergency Responders.....	Error! Bookmark not defined.
V. Support Available at Facility	Error! Bookmark not defined.
VI. General information and Assumptions (Disclaimer)	Error! Bookmark not defined.
VII. Hazard Analysis Summary	Error! Bookmark not defined.
VIII. Population Protection.....	Error! Bookmark not defined.
IX. Distribution List.....	Error! Bookmark not defined.
X. Supporting Documentation	Error! Bookmark not defined.
Attachment A, Record of Change and Review	Error! Bookmark not defined.
Attachment B, Facility Layout and Site Information.....	Error! Bookmark not defined.
Attachment C, Transportation Route Map	Error! Bookmark not defined.
Attachment D, Safety Data Sheet for Ammonia (Aqueous).....	Error! Bookmark not defined.
Attachment E, Safety Data Sheet for Sulfuric Acid (Battery Acid)	Error! Bookmark not defined.
Attachment F, Vulnerability Zone Map for Ammonia (Aqueous).....	Error! Bookmark not defined.
Attachment G, Vulnerability Zone Map Sulfuric Acid (Battery Acid).....	Error! Bookmark not defined.

I. Introduction

A. Purpose

1. 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:
 - a) Current LEPC committee members:

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

- 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.

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%
Skawanaw, 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 plains, 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 part 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-free 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.

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%.

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%
Skawanaw, 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%
Skawanaw, 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
Skawanaw, 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 east-west 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: Lincoln County Planning Facilities		
WEM ID #	Facility Name	Address
Town of Russell		
9159	Packaging Corporation of America	N9090 County Road East Tomahawk, WI 54487
City of Merrill		
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

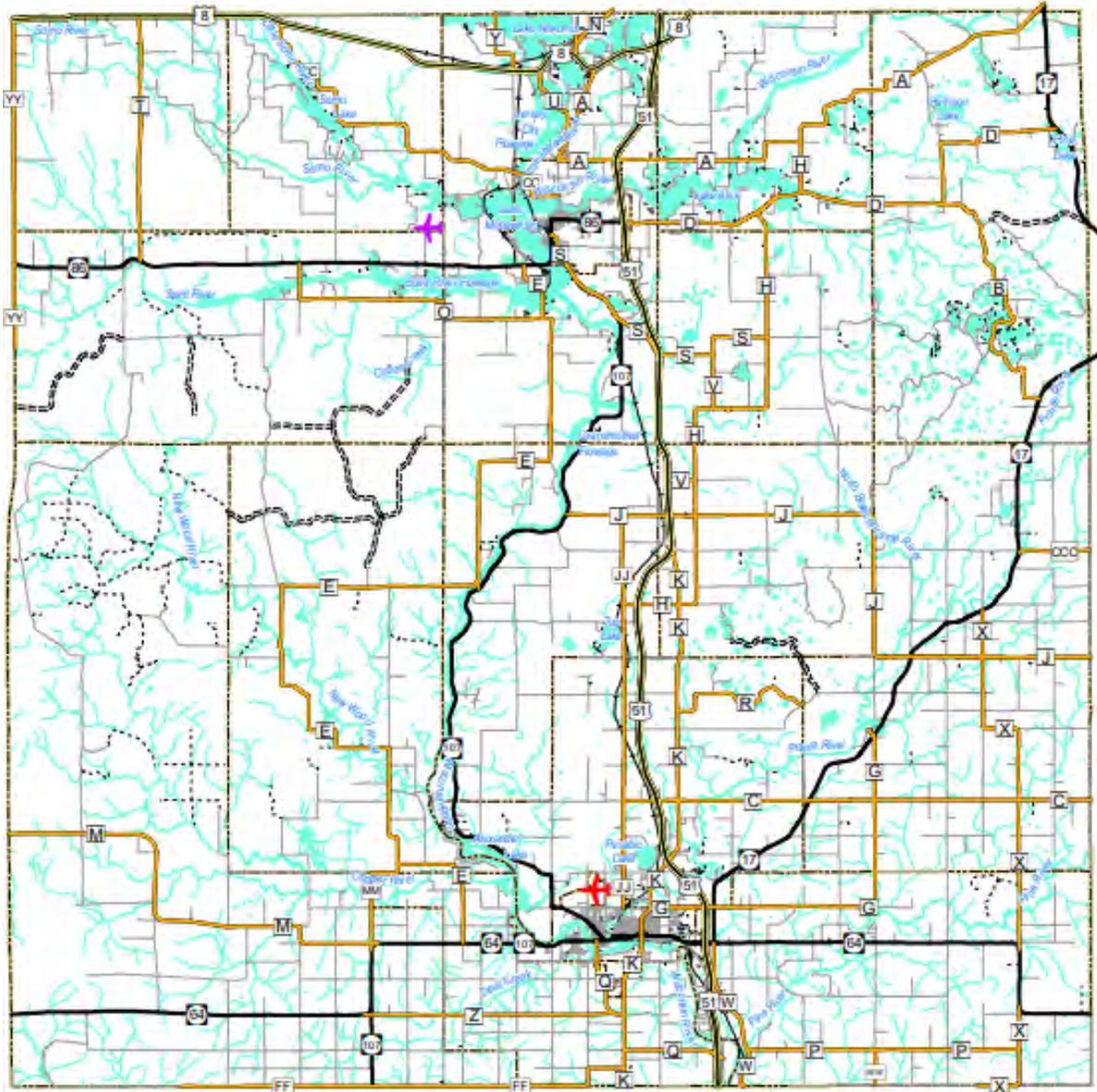
Table 3.1: Lincoln County Planning Facilities		
WEM ID #	Facility Name	Address
181725	Merrill Propane Plant	W4999 Highway Q Merrill, WI 54452
198364	Merrill Bulk Facility	N3159 County Road K Merrill, WI 54452
202057	American Asphalt	W5231 Herb Mitchell Road Irma, WI 54452
196506	Aspirus (Tomahawk)	401 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 Brandenburg 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 Rhineland, 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

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D. Transportation Map



Legend

- Minor Civil Divisions
- US Highway
- State Highways
- County Highways
- Local Roads
- Private Roads
- ===== Forest Roads
- Railroad
- Water
- ✈ Medium General Aviation
- ✈ Small General Aviation



E. Most Common EHSs at Fixed Facilities

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 Enviromental 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
3. Wisconsin Department of Health Services (WDHS)
(608) 226-1865

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

C. Federal Assistance

1. National Response Center (NRC)
(800) 424-8802
<http://nrc.uscg.mil/>
2. Agency for Toxic Substances and Disease Registry
(888) 422-8737
www.atsdr.cdc.gov/
3. 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. Responsibility 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

- 1. 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		

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Attachment A

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

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Attachment A, cont.

Promulgation Statement for County Wide Strategic Plan

Resolution 2016-03-08

Motion by: Zeitz				
Second by: Alber				
Dist.	Supervisor	Y	N	Abs
13	Alber			
19	Allen			
10	Baughan			
1	Bialecki			
11	Breitenmoser			
12	Gilk			
17	Koth			
15	Lee			
16	Loka			
14	Lussow			
4	Nowak			
21	Pike			
8	Plant			
18	Powell			
22	Reichelt			
7	Rusch			
3	Schwartzman			
5	Swanson			
20	Vander Sanden			
2	Weaver			
6	Wolter			
9	Zeitz			
Totals				
<input checked="" type="checkbox"/> Carried				
<input type="checkbox"/> Defeated				
<input type="checkbox"/> Amended				
<input checked="" type="checkbox"/> Voice vote				
<input type="checkbox"/> Roll call				

Designating Lincoln County Hazardous Materials County-wide Plan/Strategic Plan as Official Plan

WHEREAS, consistent with Title 42 U.S. Code, Chapter 116, sub-chapter sec 11003(a) Plan required: "each local emergency planning committee (LEPC) shall complete preparation of an emergency plan in accordance with this section no later than two years after October 17, 1986. The committee shall review the plan once a year"; and

WHEREAS, sec 323.60 and 323.61, Wis. Stats dealing with hazardous substances information and emergency planning also require the LEPC to follow the U.S. Code as stated above; and

WHEREAS, Resolution 9-89 established the Lincoln County Emergency Planning Committee and made it responsible for establishing a plan to comply with the Superfund Amendment & reauthorization Act /Title III planning requirements ; and

WHEREAS, sec 11003(e) of the U.S. Code stated above requires the LEPC to submit the plan to the Wisconsin Emergency Management/ State Emergency Response Commission (WEM/SERC) for review and the WEM/SERC is to make recommendations to the LEPC for revisions; and

WHEREAS, the WEM/SERC required the plan to include a Promulgation Statement that authorizes the plan as the official County-Wide Strategic Plan.

NOW, THEREFORE BE IT RESOLVED, that the Lincoln County Hazardous Materials County-wide Plan/Strategic Plan as developed by the Lincoln County Local Emergency Planning Committee according to the requirements of Title 42 W.U. Code, Chapter 116, sub-chapter sec 11003 be and is hereby designated by the Lincoln County Board as the official County-wide Emergency Plan/Strategic Plan.

Dated: March 15, 2016

Introduced by: Local Emergency Planning Committee (LEPC)
Date Passed: February 24, 2016 Committee Vote: Unanimous
Fiscal Impact: None

Introduced by: Emergency Management Committee
Date Passed: March 2, 2016 Committee Vote: Unanimous
Fiscal Impact: None

Drafted by: Nancy Bergstrom, Lincoln County Corporation Counsel

STATE OF WISCONSIN)
)SS:
COUNTY OF LINCOLN)

I hereby certify that this resolution/ordinance is a true and correct copy of a resolution/ordinance adopted by Lincoln County Board of Supervisors on:

3-15-2016

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>.

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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.

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Attachment D

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.

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