AGENDA

Eau Claire County

• LOCAL EMERGENCY PLANNING COMMITTEE •

Date: Thursday, September 17, 2020

Time: 4:00 p.m.

*via remote access **ONLY.**

*Event link below can be used to connect to meeting and interact (by the chair) from computer or through the WebEx Meeting smartphone app.

Join WebEx Meeting: https://eauclairecounty.webex.com Meeting ID: **145 427 2952** Password: **P2UmbvY4EP2**

*Meeting audio can be listened to using this Audio conference dial in information.

Audio conference: 1-415-655-0001 Access Code: **1454272952##**

For those wishing to make public comment, you must e-mail Sam Simmons at Samuel.Simmons@co.eau-claire.wi.us at least 30 minutes prior to the start of the meeting. You will be called on during the public comment period to make your comments.

**Please mute personal devices upon entry*

1. Call to order
2. Roll Call
3. Confirmation of meeting notice
4. Public Comment **(15 minute maximum)**
5. Review – Approval of the June 25, 2020 Minutes / Discussion – Action PAGES 2 - 4
6. Review/Approval of Off-Site Response Plans / Discussion – Action
    a. Silver Spring Foods PAGES 5 - 22
    b. Mayo Clinic – Eau Claire Hospital PAGES 23 - 44
    c. American Phoenix PAGES 45 - 64
7. Agency Updates / Discussion
8. Local Hazardous Materials Spill Response Team Report / Discussion
9. LEPC Appointments/Reappointments / Discussion
10. Proposed Business items for Next Meeting / Discussion
11. Adjourn

Prepared by: Samuel Simmons, Program Assistant, Eau Claire County Emergency Management

Please note: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through sign language, interpreters or other auxiliary aids. For additional information or to request the service, contact the County ADA Coordinator at 715-839¬6945 (FAX) 715-839¬1669 or (TDD) 715-839¬4735 or by writing to the ADA Coordinator, Human Resources Department, Eau Claire County Courthouse, 721 Oxford Ave., Eau Claire, Wisconsin 54703

MINUTES

Eau Claire County

• LOCAL EMERGENCY PLANNING COMMITTEE •

Date: Thursday, June 25, 2020

Time: 4:00 p.m.

*via remote access **ONLY.**

*Event link below can be used to connect to meeting and interact (by the chair) from computer or through the WebEx Meeting smartphone app.

Join WebEx Meeting: https://eauclairecounty.webex.com Meeting ID: 145 061 4370 Password: ngBP5Rs7Z88

Meeting audio can be listened to using this Audio conference dial in information below

Audio conference: 1-415-655-0001 Access Code: 145 061 4370

Members Present: Ray Henning, Robin Leary, Benjamin Frederick, Darrel Christy, Jason Knecht, Jack Running, Steve Vargo, Marisa Stanley, Robert King, Frank Neibauer, Tim Boehnen, Thomas Lochner, James Hager
Members Absent: Don Henning, Jamie Burkhardt
Staff Present: Tyler Esh, Sam Simmons

1. Call to order by Chair Pro-Tempore

   Chair Pro-Tempore Ray Henning called the meeting to order at 4:00 p.m.

2. Roll Call

   Sam Simmons confirmed the meeting attendees via roll call. A quorum was present.

3. Election of Chair and Vice Chair / Discussion – Action

   Robin Leary nominated Ray Henning as Chair of the Committee. Mr. Henning declined the nomination.
   Jason Knecht nominated Darrel Christy as Chair of the Committee. No other nominations for Chair were made. **ACTION**: Motion by James Hager to elect Darrell Christy as Chair of the Committee. Ray Henning seconded. Motion carried by unanimous consent.

   Robin Leary nominated Ray Henning as Vice Chair of the Committee. No other nominations for Vice Chair were made. **ACTION**: Motion by Jason Knecht to elect Ray Henning as Vice Chair of the Committee. Thomas Lochner seconded. Motion carried by unanimous consent.

4. Appointment of Committee Clerk / Discussion – Action

   Tyler Esh explained to the Committee that Sam Simmons would typically fill the Committee Clerk role. **ACTION**: Motion by Frank Neibauer to appoint Sam Simmons as Clerk of the Committee. Marisa Stanley seconded. Motion carried by unanimous consent.

5. Confirmation of meeting notice

   Chairman Christy confirmed that the meeting was properly noticed.

6. Public Comment **(15 minute maximum)**

   None.

7. Review – Approval of the February 20, 2020 Minutes / Discussion – Action

   The Committee reviewed the February 20, 2020 Minutes. **ACTION**: Motion by Jack Running to approve the February 20, 2020 Minutes as presented. Frank Neibauer seconded. Motion carried by unanimous consent.

8. Review – Approval of the June 11, 2020 Minutes / Discussion – Action

   The Committee reviewed the June 11, 2020 Minutes. **ACTION**: Motion by Jack Running to approve the June 11, 2020 Minutes as presented. Jason Knecht seconded. Motion carried by unanimous consent.

9. Review/Approval of Off-Site Response Plans / Discussion – Action

   a. Nestle Nutrition Eau Claire

      Sam Simmons noted very few changes to the Nestle Nutrition Eau Claire plan besides contact information. **ACTION**: Motion by Thomas Lochner to approve the Nestle Nutrition Eau Claire off-site response plan as presented. Robert King seconded. Motion carried by unanimous consent.

   b. Nestle Gateway

      Sam Simmons noted the only change to the plan was a new site plan and contact information. **ACTION**: Motion by Frank Neibauer to approve the Nestle Gateway off-site response plan as presented. Ray Henning seconded. Motion carried by unanimous consent.

   c. Sam's Club #8185

      Sam Simmons noted the only change to this plan was contact information. **ACTION**: Motion by Thomas Lochner to approve the Sam's Club #8185 off-site response plan as presented. Robert King seconded. Motion carried by unanimous consent.

   d. Wal-Mart #1669

      Sam Simmons noted the only change to this plan was contact information. Tim Boehnen questioned why the sulfuric acid release buffer map for Wal-Mart looked different than Sam's Club since the two facilities are close by. There was some discussion on the buffer map, and it was eventually determined that the Sam's Club map was based on the property line and Wal-Mart was based on the facility. Sam Simmons will look to see why this happen and make an edit. **ACTION**: Motion by Tim Boehnen to approve the Wal-Mart #1669 off-site response plan as presented. Robert King seconded. Motion carried by unanimous consent.

10. Agency Updates / Discussion

    Tyler Esh, Emergency Management Coordinator for Eau Claire County, provided the Committee with an update on the County's COVID-19 response and scaleback of physical EOC efforts. Mr. Esh also outlined a Capital Improvement request by Emergency Management to upgrade the EOC.

11. Local Hazardous Materials Spill Response Team Report / Discussion

    Steve Vargo from the Eau Claire Fire Department outlined the latest report. As of June 18th, there have been 97 hazardous material incident reports. The majority of these were gas leaks and the number is consistent for this time of year.

12. LEPC Appointments/Reappointments / Discussion

    Tyler Esh noted the additions of Robin Leary, County Board Supervisor and Benjamin Frederick, Lieutenant for the Eau Claire Police Department to the LEPC and mentioned a vacancy in the Media section. Ray Henning mentioned that the LEPC reappointments will be brought forward at the next Committee on Administration meeting.

13. Proposed Business items for Next Meeting / Discussion

    Tyler Esh mentioned a few more plans will need to be approved at the next meeting. The Committee agreed on September 17, 2020 as the next meeting date.

14. Adjourn

    ACTION: Motion by Tim Boehnen to adjourn the meeting. Jack Running seconded. Motion carried by unanimous consent.

    Meeting adjourned at 4:29 p.m.

    Respectfully Submitted,

    Samuel Simmons
    Clerk, Local Emergency Planning Committee

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☐ UPDATE ☑ FINAL UPDATE ☐

Facility ID No. : 200730

Facility Name: Silver Spring Foods

Facility Address: 2424 Alpine Road, Eau Claire, Wisconsin 54703

STATEMENT OF PLANNING PROCESS

This plan has been prepared in accordance with state and local requirements and is ready to be made a part of the County Emergency Operations Plan (EOP) / Emergency Response Plan (ERP) upon Wisconsin Emergency Management (WEM) / State Emergency Response Commission (SERC) acceptance. This plan meets the facility off-site planning guidance as established by WEM / SERC. Acceptance of this plan is for planning purposes and does not verify facility compliance with the requirements of EPCRA.

FACILITY SIGNATURES:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Facility Coordinator — Date: 3/9/2020

COUNTY SIGNATURES

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

County Local Emergency Planning Committee Chair — Date

County Emergency Management Director — Date

WEM / SERC ACCEPTANCE:

This plan has been reviewed and meets the off-site planning guidance as established by WEM / SERC.

WEM Regional Director — Date

NOTE: Facility Off-Site Plan Review Guide attached: Yes ☑ No ☐

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN
TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire
NEW ☐ UPDATE ☑ FINAL UPDATE ☐
Facility ID No. : 200730
Facility Name: Silver Spring Foods
Facility Address: 2424 Alpine Road, Eau Claire, Wisconsin 54703

FACILITY OFF-SITE PLAN REVIEW GUIDE

EPCRA Facility Off-Site Plan Elements		Page Number Reference
1)	The facility identification with address.	4
2)	Facility Coordinator / Alternate Coordinator	4
3)	Extremely Hazardous Substances (EHS) chemicals Identified with CAS numbers and maximum amount	4 - 5
4)	Primary emergency responders identified	7
5)	Support and resources available from facility	6
6)	General Information / Assumptions (Disclaimer)	7
7)	Hazard analysis summary	5 - 6
8)	Special facilities affected	7
9)	Population protection	6 - 7
10)	Special considerations	7
11)	Site Plan / Facility Layout	9 (Appendix 1)

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☐ UPDATE ☑ FINAL UPDATE ☐

Facility ID No. : 200730

Facility Name: Silver Spring Foods

Facility Address: 2424 Alpine Road, Eau Claire, Wisconsin 54703

12) Distribution list:

Facility

Fire Department of jurisdiction

Wisconsin Emergency Management- Region Office

Designated Hazmat team

County Emergency Management Office

Adjacent County Emergency Management Office when impacted by vulnerability zone

13) Required Attachments

A. Vulnerability Zone map highlighting special facilities: 8

B. Safety Data Sheet (SDS) for each EHS: 10 - 13 (Appendix 2)

C. Vulnerability Zone Calculations: 14 - 15 (Appendix 3)

D. Transportation route(s) map: None

Silver Spring Foods
Facility Off-Site
Emergency Response Plan

Facility #200730
Silver Spring Foods
2424 Alpine Road
Eau Claire, Wisconsin 54703

Eau Claire County Office of Emergency Management
721 Oxford Avenue
Suite 3344
Eau Claire, Wisconsin 54703

TABLE OF CONTENTS

RECORD OF CHANGES

Change	Date Changed	Change Made By
Created	January 2020	SS

SECTION 1: FACILITY INFORMATION

A. Address

Silver Spring Foods
2424 Alpine Road
Eau Claire, WI 54703

B. Facility ID

200730

C. Map

D. Emergency Contacts

Primary:
Shawn Kapanke
Phone: 715-830-9652
24 Hour: 715-559-4729
skapanke@silverspringfoods.com

Secondary:
Matt Hafele
Phone: 715-830-9656
24 Hour: 612-209-7363
mhafele@silverspringfoods.com

E. Extremely Hazardous Substances

Sulfuric Acid Chemical ID: 20245 CAS: 7664939 **ERG: Guide 137**	**Inventory:** Max Daily Amount (lbs): 6231 Ave. Daily Amount (lbs): 6231 Number of days on site: 365	**Storage:** Container: Plastic or nonmetallic drum Location: Chemical Storage Room/Waste Water Treatment

F. Hazardous Substances

HydroxySan Plus Chemical ID: 344955 CAS: N/A **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 4000 Ave. Daily Amount (lbs): 4000 Number of days on site: 365	**Storage:** Container: Plastic or nonmetallic drum Location: Chemical Storage Room
MPA NO. 168 Chemical ID: 344953 CAS: N/A **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 1150 Ave. Daily Amount (lbs): 1150 Number of days on site: 365	**Storage:** Container: Plastic or nonmetallic drum Location: Chemical Storage Room
Nitrogen (Liquefied) Chemical ID: 344944 CAS: 7727379 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 20241 Ave. Daily Amount (lbs): 400 Number of days on site: 30	**Storage:** Container: Above ground tank Location: 2424 Alpine Road

G. Resources/Support Available

Silver Spring Foods has a fire suppression system installed and an emergency notification system (SimplexGrinnell) that monitors the facility's fire system. The facility also has fire extinguishers located throughout the building along with personnel with fire extinguisher training.

H. Hazard Analysis

Silver Spring Foods is a facility focused on food manufacturing. The facility is approximately 169,123 square feet and the flooring, walls, and roof are all reinforced by cement and steel rebar. The facility is bordered by commercial/agricultural properties in all directions. The facility is comprised of one building. Additionally, there is one parking lot to the southwest of the building on the parcel. The facility is manned 24 hours a day and has about 300 employees.

Sulfuric Acid (6,231 lb.) is stored in plastic or nonmetallic drums in the chemical storage and wastewater treatment rooms.

The worst case scenario for each chemical was based on the maximum quantity of chemical present or the largest container of the product; whichever is less. (6,231 pounds of Sulfuric Acid). Criteria are:

Very stable air (Class F)
Night time
Open area
3.35 mph wind
IDLH (Immediately Dangerous to Life and Health) concentration
Rapid release of maximum quantity of chemical in a single vessel (10 minutes)

The evacuation radius, as calculated by the CAMEO software package for 6,231 pounds of Sulfuric Acid release, was determined to be less than 0.1 miles. The Vulnerability Zone encompasses most of the footprint of the Silver Spring Foods facility, a portion of the road right-of-way, and adjacent properties to the east, but it does not pose a significant danger to homes and businesses in the area.

The re-evaluation scenario criteria are:

Neutral air stability (Class D)
Night time
Open area
11.9 mph wind
1/10 IDLH (Immediately Dangerous to Life and Health) concentration
10 minute release of maximum quality of chemical in a single vessel

The evacuation radius, as calculated by the CAMEO software package for a 6,231 lb. sulfuric acid release was determined to be less than 0.1 miles. The Vulnerability Zone primarily affects the employees in the immediate vicinity of the release.

Reevaluation was made for a 10 minute (rapid) release. The evacuation radius was determined to be less than 0.1 miles. The Vulnerability Zone primarily affects the employees in the immediate vicinity of the release.

Sulfuric acid is used in batteries for power backup. Each of the batteries serves as a separate container. If all battery cases failed at one time the total release would not affect an area as large .1 mile. The only scenario, which could produce a spill of this sort would be an explosion and that would involve heat and fire which is not addressed in this planning.

There are no local ordinances in Eau Claire County which mandate specific routes for vehicles carrying Extremely Hazardous Substances (EHSs). Thus, EHSs may be transported over any local, state, or federal road for which weight limits are met.

I. Access to Facility

Silver Spring Foods is restricted access only. Only badged full-time employees and approved contractors are able to access entry ways into the building. The facility also had restricted areas in the plant where only authorized personnel can access.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	**EMS:**	**Law:**	**Emergency Management:**
Eau Claire Fire Department Eau Claire, WI 54701 Phone: 715-834-6868	Eau Claire Fire Department Eau Claire, WI 54701 Phone: 715-839-5012	Eau Claire County Sheriff's Office 721 Oxford Avenue Suite 1400 Eau Claire, WI 54703 Phone: 715-839-4701	Eau Claire Office of Emergency Management 721 Oxford Avenue Suite 3344 Eau Claire, WI 54703 Phone: 715-839-4736

B. Hazardous Materials Response Teams

Eau Claire County has a Level B hazardous materials response team. For Level B response, the local Fire Chief notifies the Level B team of a response needed through the Eau Claire County Emergency Communications Center. For Level A responses by the Type 1 Regional Hazardous Materials Response Team, requests shall be made through the WEM Duty officer by the county Emergency Management Director.

C. Other Outside Assistance

See the County-Wide Hazardous Materials Strategic Plan for a listing of resources.

SECTION 3: POPULATION/ENVIRONMENTAL PROTECTION

A. Shelter-In-Place

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 without windows or exterior doors, enclosed stairways and 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.

B. Evacuation

Experience indicated 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. All public schools listed are eligible evacuation shelters.

C. Nearby Shelters

Not applicable.

SECTION 4: VULNERABILITY ZONES

A. General Information and Assumptions

The vulnerability zones set forth in this Plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of a single EHS chemical occur.

The vulnerability zones are NOT intended to be used as a guide for population protection in fire related incidents. Fire incidents were considered in the development of this plan and the plan provides basic information about the facility for first responders to employ. However, in an actual fire situation at this facility, the Incident Commander is strongly recommended to reference the fire department's own individual agency pre emergency plans and standard operating procedures as well as the County's Emergency Operations Plan Annex K: Fire and Rescue, as they may relate to this facility when making decisions at an incident involving fire.

Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of a fire, should one occur.

The actual response to an incident will be determined by the field incident commander 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.

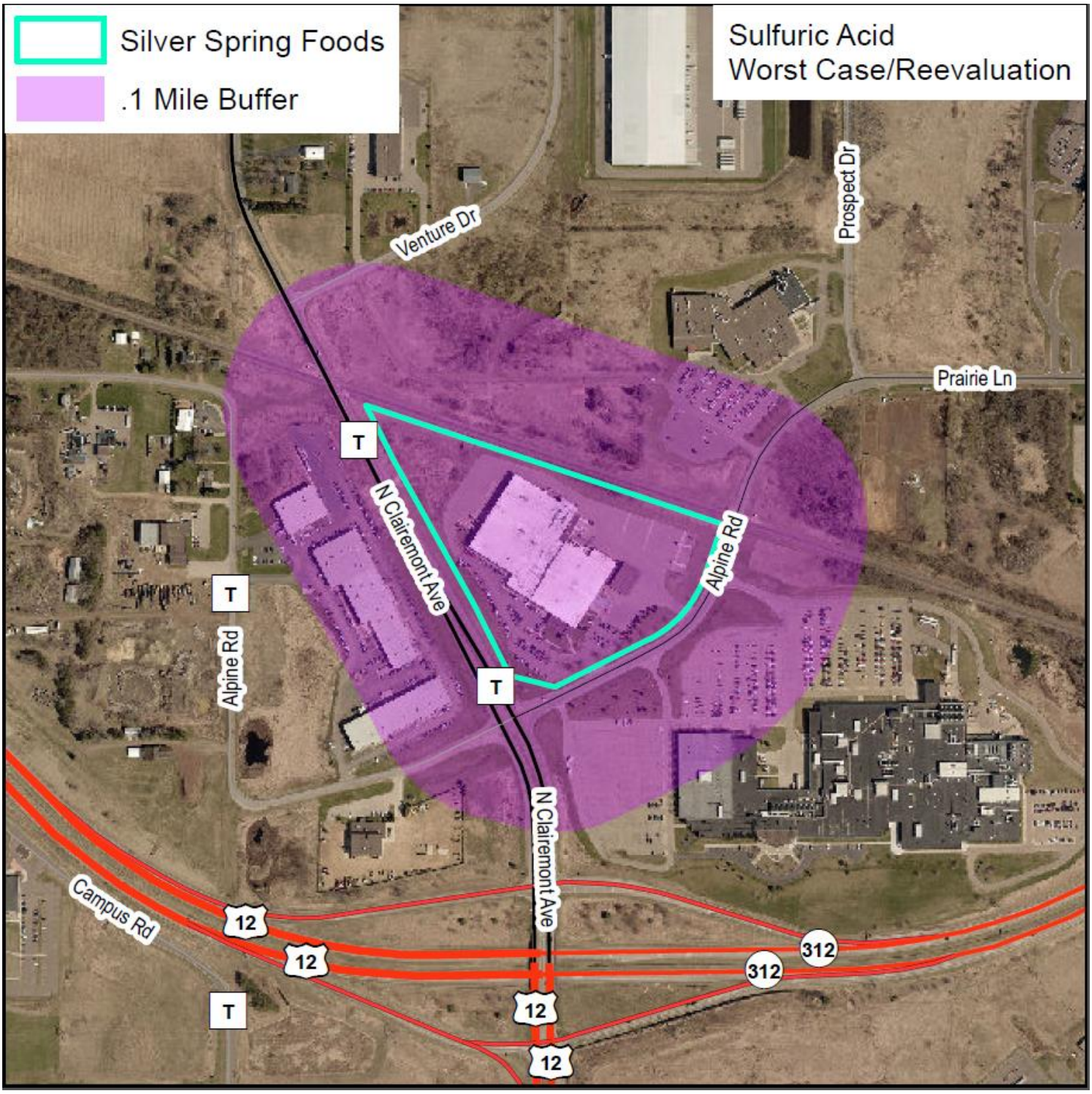
The vulnerability zones determined in this Plan are for general PLANNING PURPOSES.

B. Special Facilities Affected

None

C. Vulnerability Zone Map

See map


Silver Spring Foods
.1 Mile Buffer
Sulfuric Acid
Worst Case/Reevaluation
Venture Dr
Prospect Dr
Prairie Ln
N Clairemont Ave
Alpine Rd
Alpine Rd
N Clairemont Ave
Campus Rd
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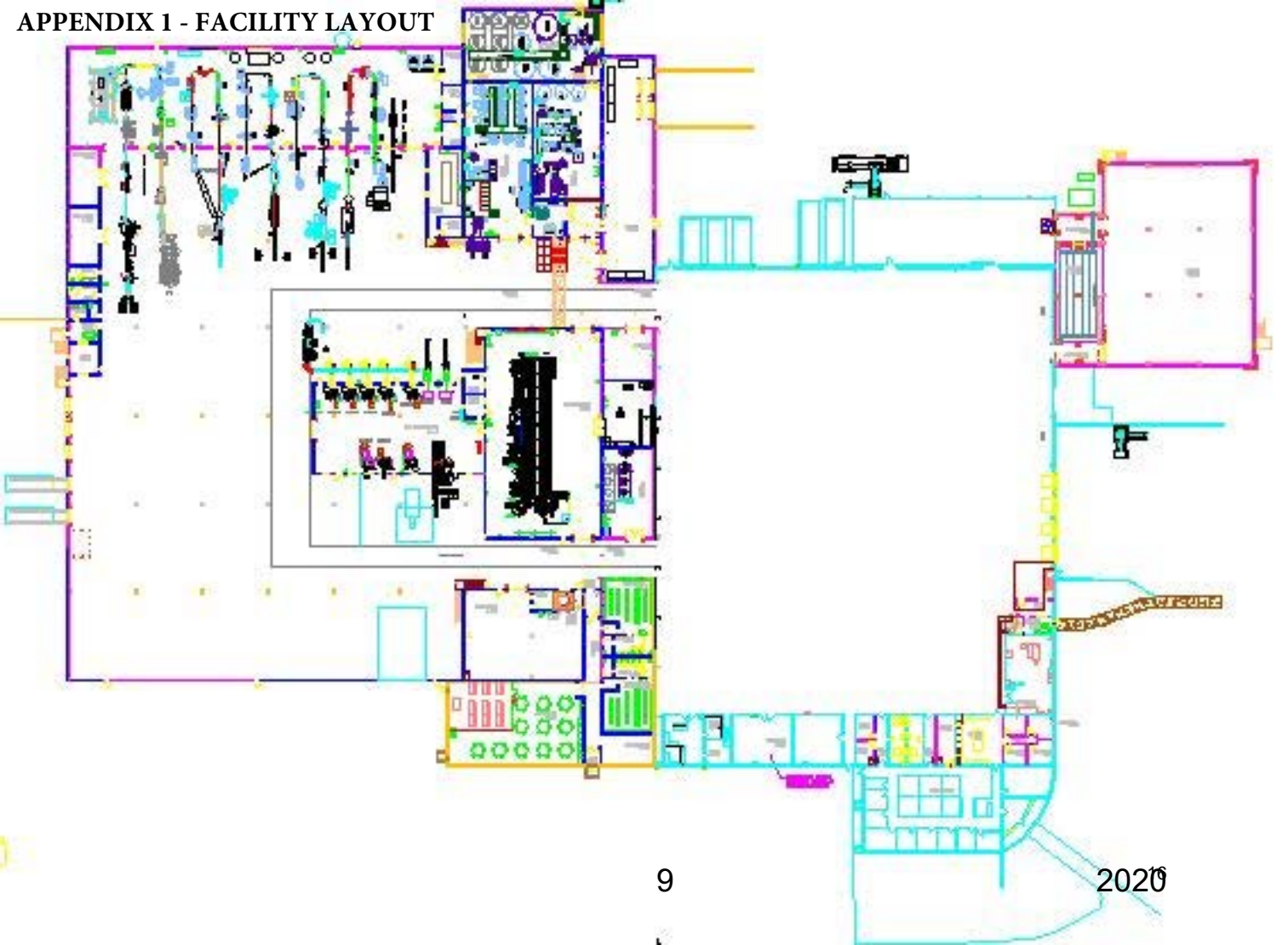
APPENDIX 1 - FACILITY LAYOUT



Safety Data Sheet

Sulfuric Acid, Concentrated 18 M

Section 1 Product Description

Product Name:	Sulfuric Acid, Concentrated 18 M
Recommended Use:	Science education applications
Synonyms:	Oil of Vitriol; , Hydrogen Sulfate
Distributor:	Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150
Chemical Information:	800-227-1150 (8am-5pm (ET) M-F)
Chemtrec:	800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. May cause cancer. Harmful to aquatic life.

GHS Classification:
Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1A, Acute Toxicity - Inhalation Dust / Mist Category 3, Hazardous to the aquatic environment - Acute Category 3

Other Safety Precautions:	IF exposed or concerned: Get medical advice/attention.
Acute Toxicity Dermal Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%
Sulfuric Acid, Concentrated 18M	7664-93-9	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Ingestion:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5 Firefighting Procedures

Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Non-combustible but contact with water or moisture may generate sufficient heat to ignite combustible materials Contact with water produces sulfuric acid.
Hazardous Combustion Products:	Sulfur Oxides

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Do not allow the spilled product to enter public drainage system or open waterways.

Section 7 Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Never add water to this product.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8 Protection Information

	ACGIH		OSHA PEL	
Chemical Name	**(TWA)**	**(STEL)**	**(TWA)**	**(STEL)**
Sulfuric Acid, Concentrated 18M	0.2 mg/m3 TWA (thoracic fraction)	N/A	1 mg/m3 TWA	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s): NIOSH approved air purifying respirator with acid gas cartridge and dust/mist filter

Eye Protection: Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile - Extra Thick (8 mm)

Section 9 Physical Data

Formula: H2SO4
Molecular Weight: 98.08
Appearance: Colorless, Oily Liquid
Odor: Strong Pungent
Odor Threshold: No data available
pH: -1.26
Melting Point: 10 C
Boiling Point: 280 C
Flash Point: No data available
Flammable Limits in Air: No data available
Vapor Pressure: 0.7 hPa at 25°C
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: 1.834-1.836 at 20°C
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: 0.24
Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Moderately reactive - See below
Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Contact with water
Incompatible Materials: Water, Organic Compounds, Strong reducing agents, Acetaldehydes, Amines
Hazardous Decomposition Products: Sulfur Oxides
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation.
Symptoms (Acute): Respiratory disorders
Delayed Effects: Dental Erosion

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric Acid, Concentrated 18M	7664-93-9	Oral LD50 Rat 2140 mg/kg	Not determined	INHALATION LC50 GUINEA PIG 18 MG/M3 INHALATION LC50 Rat 510 MG/M3 INHALATION LC50 Mouse 320 MG/M3

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Sulfuric Acid, Concentrated 18M	7664-93-9	Not listed	Not listed	Listed

Chronic Effects:
Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: Respiratory system

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: Biodegradation, adsorption to sediment, and bioconcentration to aquatic organisms should not be significant.
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Sulfuric Acid, Concentrated 18M	7664-93-9	96 HR LC50 BRACHYDANIO RERIO > 500 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 29 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:

Sulfuric Acid, Concentrated 18 M

Air - IATA Proper Shipping Name:

UN1830
Sulfuric Acid
Class 8
P.G. II

UN1830
Sulfuric Acid
Class 8
P.G. II

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sulfuric Acid, Concentrated 18M	7664-93-9	Sulfuric acid	1000 lb RQ	1000 lb final RQ; 454 kg final RQ	1000 lb TPQ	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer.

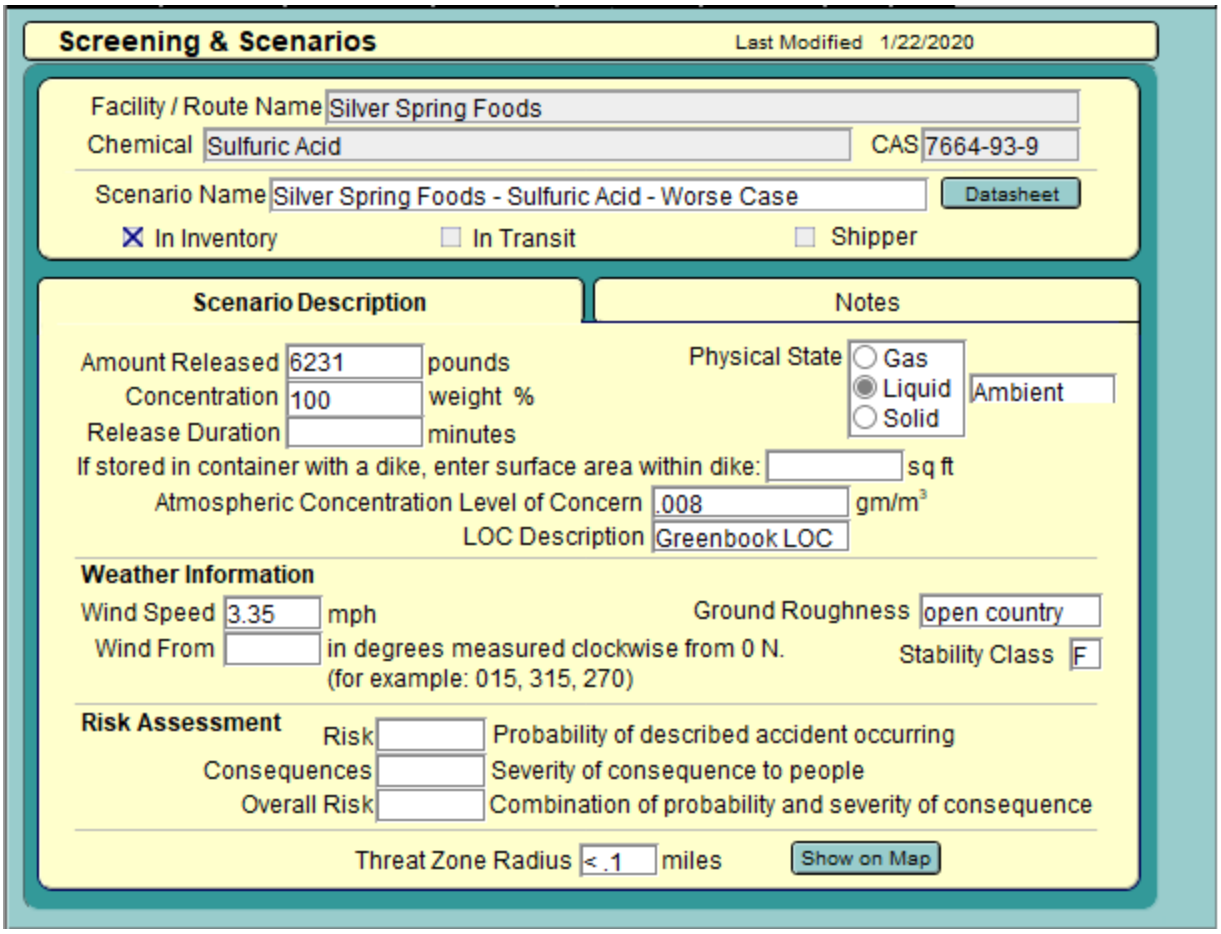
Section 16 Additional Information

Revised: 09/09/2015 **Replaces: 09/03/2014** **Printed: 10-29-2015**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



Screening & Scenarios Last Modified 1/22/2020

Facility / Route Name: Silver Spring Foods

Chemical: Sulfuric Acid CAS: 7664-93-9

Scenario Name: Silver Spring Foods - Sulfuric Acid - Worse Case [Datasheet]

[X] In Inventory [ ] In Transit [ ] Shipper

Scenario Description | Notes

Amount Released: 6231 pounds

Concentration: 100 weight %

Release Duration: minutes

Physical State: ( ) Gas (•) Liquid ( ) Solid — Ambient

If stored in container with a dike, enter surface area within dike: sq ft

Atmospheric Concentration Level of Concern: .008 gm/m^3

LOC Description: Greenbook LOC

Weather Information

Wind Speed: 3.35 mph

Wind From: in degrees measured clockwise from 0 N. (for example: 015, 315, 270)

Ground Roughness: open country

Stability Class: F

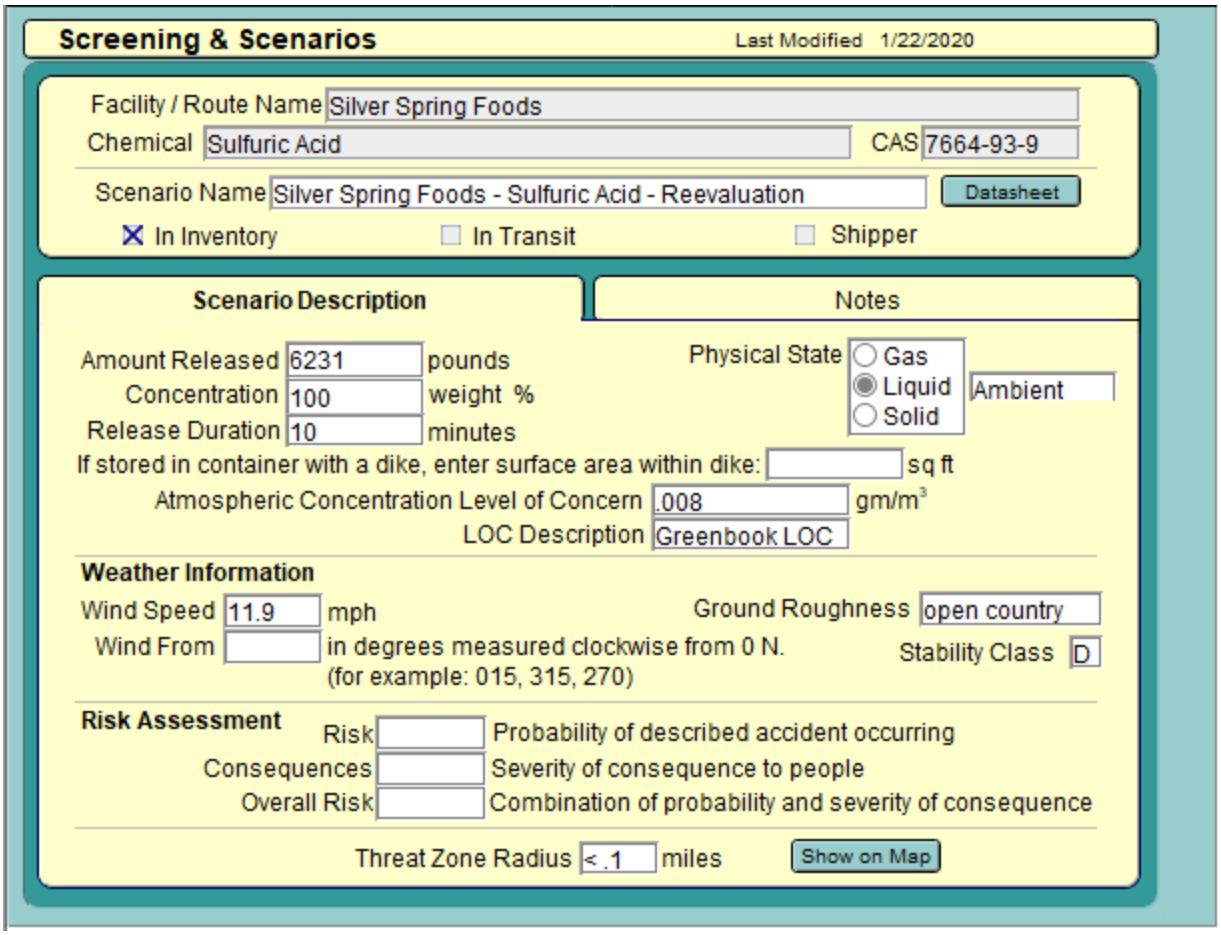
Risk Assessment

Risk: Probability of described accident occurring

Consequences: Severity of consequence to people

Overall Risk: Combination of probability and severity of consequence

Threat Zone Radius: < .1 miles [Show on Map]


Screening & Scenarios
Last Modified 1/22/2020
Facility / Route Name Silver Spring Foods
Chemical Sulfuric Acid
CAS 7664-93-9
Scenario Name Silver Spring Foods - Sulfuric Acid - Reevaluation
Datasheet
In Inventory
In Transit
Shipper
Scenario Description
Notes
Amount Released 6231 pounds
Concentration 100 weight %
Release Duration 10 minutes
Physical State Gas Liquid Solid
Ambient
If stored in container with a dike, enter surface area within dike: sq ft
Atmospheric Concentration Level of Concern .008 gm/m3
LOC Description Greenbook LOC
Weather Information
Wind Speed 11.9 mph
Ground Roughness open country
Wind From in degrees measured clockwise from 0 N.
(for example: 015, 315, 270)
Stability Class D
Risk Assessment
Risk Probability of described accident occurring
Consequences Severity of consequence to people
Overall Risk Combination of probability and severity of consequence
Threat Zone Radius < .1 miles
Show on Map

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☐ UPDATE ☑ FINAL UPDATE ☐

Facility ID No. : 60127

Facility Name: Mayo Clinic Health System

Facility Address: 1221 Whipple Street, Eau Claire, Wisconsin

STATEMENT OF PLANNING PROCESS

This plan has been prepared in accordance with state and local requirements and is ready to be made a part of the County Emergency Operations Plan (EOP) / Emergency Response Plan (ERP) upon Wisconsin Emergency Management (WEM) / State Emergency Response Commission (SERC) acceptance. This plan meets the facility off-site planning guidance as established by WEM / SERC. Acceptance of this plan is for planning purposes and does not verify facility compliance with the requirements of EPCRA.

FACILITY SIGNATURES:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Angy G. Brandt — 7-6-2020

Facility Coordinator — Date

COUNTY SIGNATURES

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

County Local Emergency Planning Committee Chair — Date

County Emergency Management Director — Date

WEM / SERC ACCEPTANCE:

This plan has been reviewed and meets the off-site planning guidance as established by WEM / SERC.

WEM Regional Director — Date

NOTE: Facility Off-Site Plan Review Guide attached: Yes ☑ No ☐

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN
TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire
NEW ☐ UPDATE ☑ FINAL UPDATE ☐
Facility ID No. : 60127
Facility Name: Mayo Clinic Health System
Facility Address: 1221 Whipple Street, Eau Claire, Wisconsin

FACILITY OFF-SITE PLAN REVIEW GUIDE

EPCRA Facility Off-Site Plan Elements		Page Number Reference
1)	The facility identification with address.	4
2)	Facility Coordinator / Alternate Coordinator	4
3)	Extremely Hazardous Substances (EHS) chemicals Identified with CAS numbers and maximum amount	4
4)	Primary emergency responders identified	7
5)	Support and resources available from facility	5 - 6
6)	General Information / Assumptions (Disclaimer)	8
7)	Hazard analysis summary	6
8)	Special facilities affected	8
9)	Population protection	8
10)	Special considerations	8
11)	Site Plan / Facility Layout	10 (Appendix 1)

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☐ UPDATE ☑ FINAL UPDATE ☐

Facility ID No. : 60127

Facility Name: Mayo Clinic Health System

Facility Address: 1221 Whipple Street, Eau Claire, Wisconsin

12) Distribution list:

Facility

Fire Department of jurisdiction

Wisconsin Emergency Management- Region Office

Designated Hazmat team

County Emergency Management Office

Adjacent County Emergency Management Office when impacted by vulnerability zone

13) Required Attachments

A. Vulnerability Zone map highlighting special facilities: 9

B. Safety Data Sheet (SDS) for each EHS: 11 - 17 (Appendix 2)

C. Vulnerability Zone Calculations: 18 - 19 (Appendix 3)

D. Transportation route(s) map: None

Mayo Clinic Health System – Eau Claire Hospital

Facility Off-Site Emergency Response Plan

Facility #60127
Mayo Clinic Health System – Eau Claire Hospital
1221 Whipple St P.O. Box 4105
Eau Claire, Wisconsin 54702

Eau Claire County Office of Emergency Management
721 Oxford Avenue
Suite 3344
Eau Claire, Wisconsin 54703

TABLE OF CONTENTS

RECORD OF CHANGES

Change	Date Changed	Change Made By
Created	May 2017	TE / JA
Updated	July 2020	SS

SECTION 1: FACILITY INFORMATION

A. Address

Mayo Clinic Health System – Eau Claire Hospital
1221 Whipple St. P.O. Box 4105
Eau Claire, WI 54702

B. Facility ID

60127

C. Map

D. Emergency Contacts

Primary:
Gregory Brandt
Phone: 715-838-3633
24 Hour: 715-838-3311
brandt.greg@mayo.edu

Secondary:
Gordon Howie
Phone: (715) 838-1999
24 Hour: (715) 838-3311
howie.gordon@mayo.edu

E. Extremely Hazardous Substances

Sulfuric Acid	**Inventory:**	**Storage:**
Chemical ID: 343835 CAS: 7664939 **ERG: Guide 137**	Max Daily Amount (lbs): 2489 Ave. Daily Amount (lbs): 2489 Number of days on site: 365	Container: Above ground tank, Battery Casing Location: Central Energy Plant (Rooms 300, 203, 301), Midelfort Building – L943B, IS Department – B937

F. Hazardous Substances

Petroleum Distillate Fuel Oil #2 Chemical ID: 343834 CAS: 64742809 **ERG: Guide 128**	**Inventory:** Max Daily Amount (lbs): 288970 Ave. Daily Amount (lbs): 245714.175 Number of days on site: 365	**Storage:** Containers: Below Ground Tank, Above Ground Tank Locations: Below Ground Tank: Beneath Parking Lot 16 between Central Energy Plant and Amailia Building Above Ground Tank (3): Central Energy Plant Room 203

G. Resources/Support Available

Chemical Emergency Monitoring Equipment: Automatic leak detection monitors are in place for the underground fuel oil storage tanks. Maintenance staff is onsite 24-hours per day and will receive notification if leaks are detected.

Personal Protective Equipment (PPE): PPE for fuel oil spills includes nitrile gloves, over boots, and goggles. PPE for batteries includes gloves, goggles, and face shields. Emergency eyewash stations are located in the battery storage rooms in the Central Energy Plant.

Other Equipment/Supplies: Spill response supplies for fuel oil spills are located within the Hanshus and Wishart Buildings and in the Central Energy Plant. Fuel oil spill response supplies include three each 95-gallon salvage drums each containing PPE, brooms with handles, three each 1.5 cubic foot bags of absorbent material, 100 absorbent pads, 10 each large socks, 16 each small socks, 5 each disposal bags and ties. Spill response supplies for battery spills in the Central Energy Plant are located in the battery storage/electrical rooms and include two each, 20-gallon spill kits containing absorbent material and PPE for battery spills.

Containment: Batteries in the Central Energy Plant electrical rooms are stored within full containment systems. The underground fuel storage tanks (UST's) are constructed of coated steel compatible with the characteristics of the fuel oil contained and with temperature and pressure conditions. Additionally, the UST's have cathodic protection to prevent corrosion, and have automatic leak detection systems, spill/overflow prevention alarms, and overflow prevention valves. In addition, facility maintenance staff includes licensed UST operators in accordance with Wisconsin Administrative code chapter COMM 10.80. All oil deliveries and waste oil pickups are scheduled and attended by trained maintenance staff or safety staff. To contain a potential uncontrolled discharge from a tanker during filling of the USTs, spill mats or other containment devices will be placed over the curb inlets and storm water grates.

All oil tanks used at this facility (including the USTs) are constructed of steel, in accordance with industry specifications as described above. The design and construction of all bulk storage containers are compatible with the characteristics of the oil product they contain, and with temperature and pressure conditions.

Fire Equipment: All buildings on this campus are sprinkled and include fire alarm pull stations, strobes, speakers and fire extinguishers. In addition some buildings on campus are designed for hospital occupancy which provides for defend-in place options and horizontal evacuation from one fire/smoke compartment to another.

Communications Equipment: Telephones are located in or near all areas where hazardous materials are stored. Portable phones are used by all Facilities Service and Security staff at all times. In case of fire, smoke or explosion, fire alarm pull stations, located throughout the facility, will be activated. When activated, the fire alarm system provides voice enunciation indicating the location of the event and strobes are activated. An overhead announcement, "Building Alert – Airborne Hazard", may be made by Switchboard to alert staff of chemical hazards affecting the environment. Hospital Incident Command, in conjunction with Local Authorities

in Unified Command, will give additional directives for overhead announcements for evacuation. Phone numbers for emergency coordinators, administrators on call, house supervisors and other key personnel are included in emergency response procedures. The hospital Switchboard is staffed 24-hours a day and has the ability to contact designated emergency response coordinators, the house supervisor and the Administrator on call. The Switchboard also has the ability to make overhead announcements throughout campus buildings. The Security Control Center is staffed 24-hours per day with security staff on-site around the clock.

H. Hazard Analysis

Mayo Clinic Health System in Eau Claire provides healthcare services as one of several hospitals in the community. There is an average of one-thousand five hundred employees (1,500) on site at all times with patients doubling that number. The size of the building is 1.2 million square feet. Sulfuric Acid is used in electrolyte batteries, with the total quantity of sulfuric acid at 2,489 lbs.

The hazard analysis determined this sulfuric acid to be the major chemical hazard present at the facility. The batteries are located in a secured card access area, and contain 2,489 pounds of sulfuric acid. The modeled evacuation area is based on worst case scenario for sulfuric acid (2,489 lbs.) ten minutes after a catastrophic failure of containment. The largest containments of sulfuric acid are in the Central Energy Plant and the IS Department.

The batteries are contained so the worst case scenario is a failure of the containment simultaneous to the release of sulfuric acid from the batteries.

The worst case scenario criteria are:
Neutral Air Stability (Class F)
Night Time
Open Country
3.35 mph wind
1/10 IDLH (Immediately Dangerous to Life and Health) concentration
Rapid release of maximum quantity of chemical in a single vessel (10 min.)

The evacuation radius, as calculated by the CAMEO modeling software package, for a 1,020 pound (largest container onsite) sulfuric acid release was determined to be less than 0.1 mile. It is estimated that any release would affect only the immediate area of the hospital.

The reevaluation scenario criteria are:
Neutral Air Stability (Class D)
Open Country
11.9 mph wind
1/10 IDLH (Immediately Dangerous to Life and Health) concentration
10 minute release of maximum quantity of chemical in a single vessel

The reevaluation of a 1,020 pound release of sulfuric acid, using more realistic variables in the CAMEO modeling software yields an evacuation radius of less than 0.1 mile. It is estimated that any release would affect only the immediate hospital area.

I. Access to Facility

Maintenance staff is onsite 24-hours per day and will receive notification if leaks are detected. The Security Control Center is staffed 24-hours per day with security staff on-site around the clock.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	**EMS:**	**Law:**	**Emergency Management:**
Eau Claire Fire Dept. Station 2 216 S. Dewey St Eau Claire, WI 54701 Phone: 715-834-6868	Eau Claire Fire Department 216 S. Dewey St Eau Claire, WI 54701 Phone: 715-834-6868	Eau Claire Police Department 721 Oxford Avenue Suite 1400 Eau Claire, WI 54703 Phone: 715-839-4701	Eau Claire Office of Emergency Management 721 Oxford Avenue Suite 3344 Eau Claire, WI 54703 Phone: 715-839-4736

B. Hazardous Materials Response Teams

Eau Claire County has a Level B hazardous materials response team. For Level B response, the local Fire Chief notifies the Level B team of a response needed through the Eau Claire County Emergency Communications Center. For Level A responses by the Type 1 Regional Hazardous Materials Response Team, requests shall be made through the WEM Duty officer by the county Emergency Management Director.

C. Other Outside Assistance

See the County-Wide Hazardous Materials Strategic Plan for a listing of resources.

Mayo Clinic Health System in Eau Claire maintains ongoing communications and relationships with Eau Claire Fire Department as it pertains to facility tours and emergency response. Additionally, the facility contracts with WRR Environmental Services for 24/7 emergency spill response and will contact Clean Harbors Environmental Services if additional spill response assistance is needed.

SECTION 3: POPULATION/ENVIRONMENTAL PROTECTION

A. **Shelter-In-Place**

Patients and staff caring for and supporting patients would most likely shelter in place in the case of a sulfuric acid release and would not evacuate the facility. As time would permit, steps would be taken to close air intakes, doors and windows. In most cases involving chemical releases in the community, staff and patients would shelter in place. Preferred areas for protective sheltering would be interior hallways, rooms without windows or exterior doors, enclosed stairways and rooms on the side of the building away from where the hazard is approaching.

B. **Evacuation**

Staff will reference the Alternate Care Site procedure to assess potential locations and sites for relocating patients if a decision was made to evacuate the facility. Designated off-site locations outside Mayo Clinic Health System or other Mayo Clinic facilities are based on a Wisconsin Hospital Mutual Aid Memorandum of Understanding.

C. **Nearby Shelters**

N/A

SECTION 4: VULNERABILITY ZONES

A. General Information and Assumptions

The vulnerability zones set forth in the Plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst-case scenario and identify the potential area for impact should an air-borne release of a single EHS chemical occur.

The vulnerability zones are NOT intended to be used as a guide for population protection in fire-related incidents. Fire incidents were considered in the development of this plan and the plan provides basic information about the facility for first responders to employ. However, in an actual fire situation at this facility, the Incident commander is strongly recommended to reference the fire department own individual agency pre-emergency plans and standard operating procedures as well as the county's Emergency Operations Plan – Annex K: Fire and Rescue, as they may relate to this facility when making decisions at an incident involving fire.

Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of a fire, should one occur.

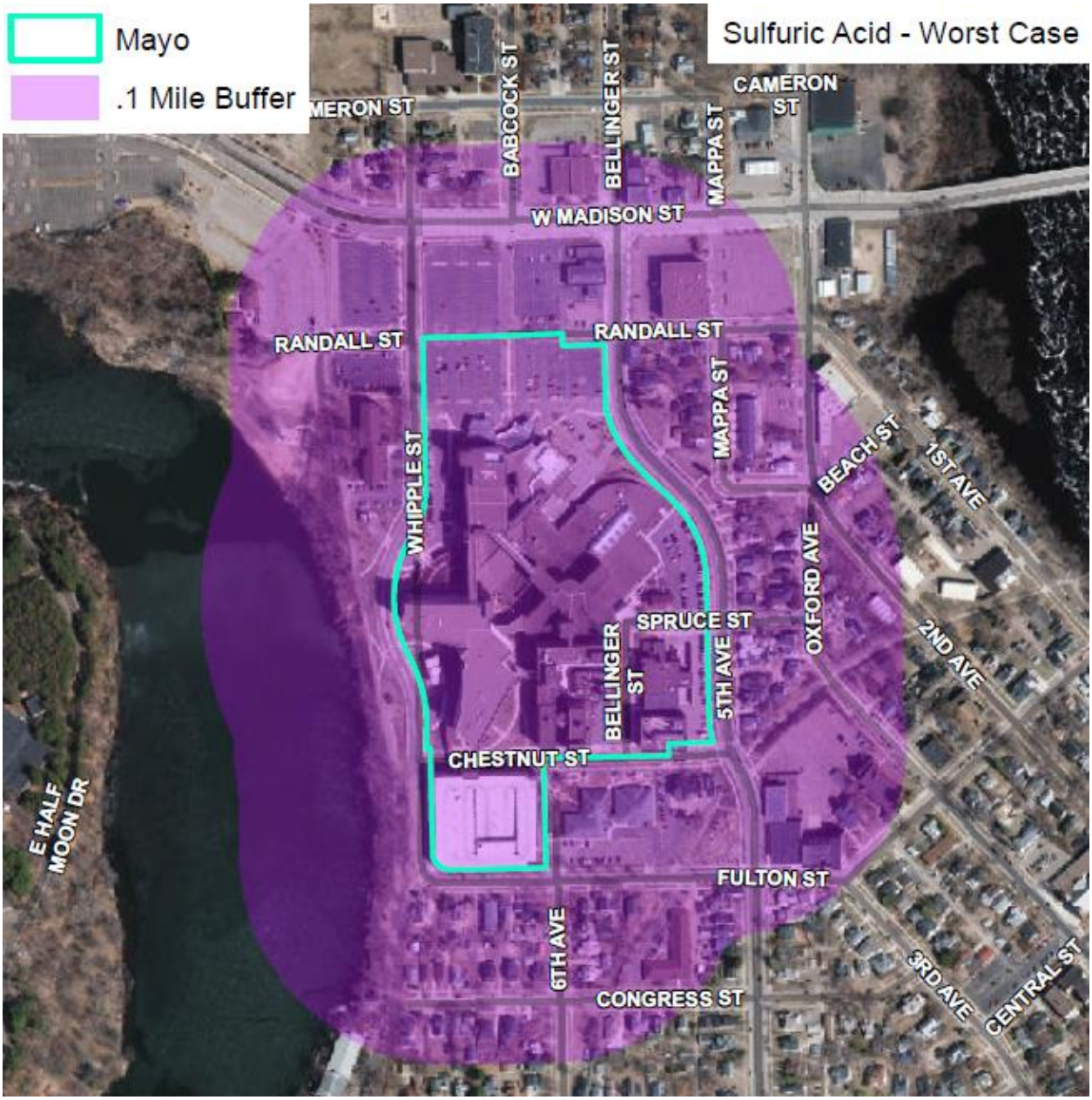
The field incident commander shall determine the actual response to an incident and the affected area may vary from the planning vulnerability zone identified in this Plan. Depending on wind speed and direction, the amount of material released and other pertinent factors, the ACTUAL vulnerability zone may be smaller, and in some instances larger, than the credible worst-case vulnerability zone identified herein. The vulnerability zones determined in the Plan are for general PLANNING PURPOSES.

B. Special Facilities Affected

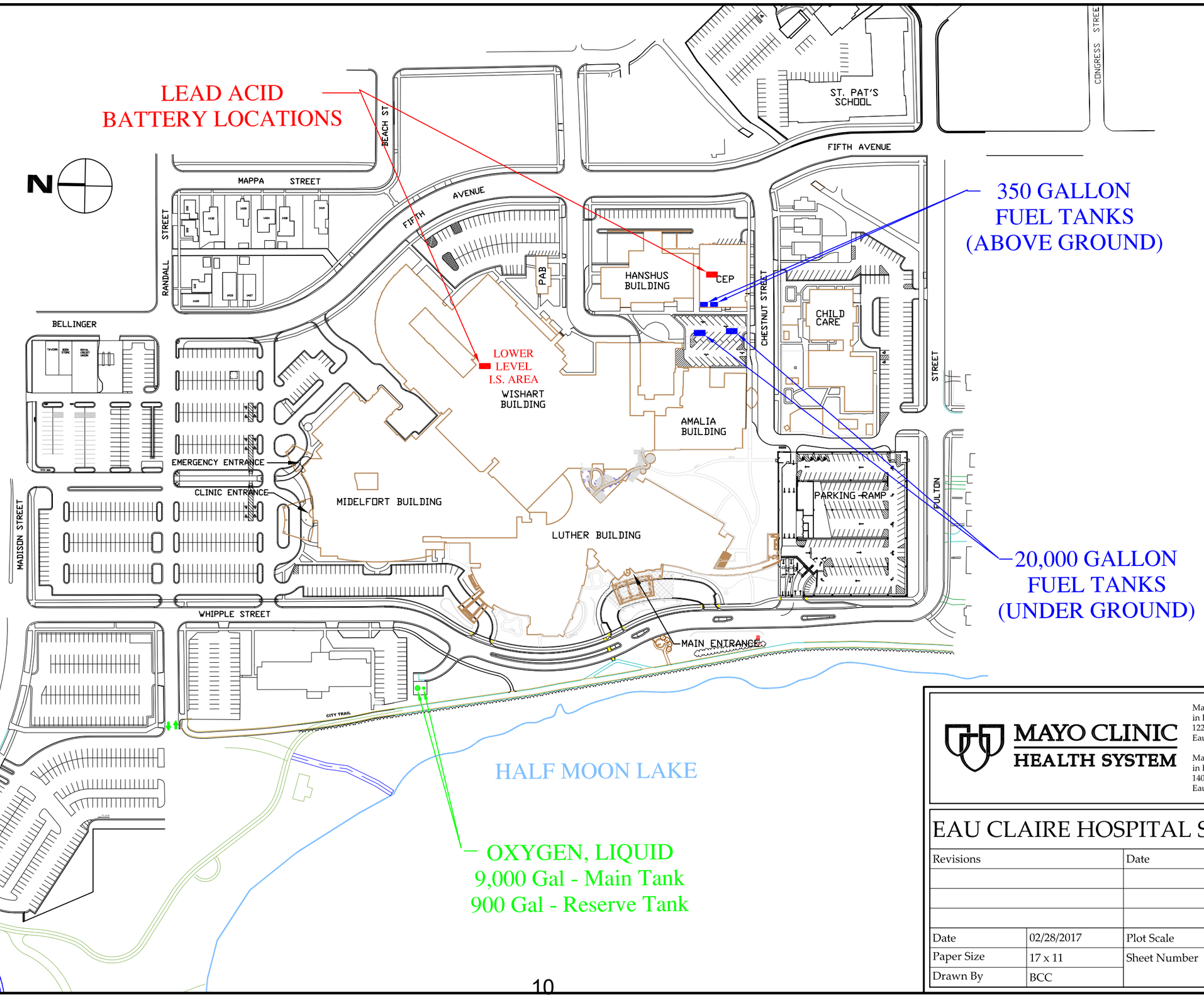
N/A

C. Vulnerability Zone Map

See map


Mayo
.1 Mile Buffer
Sulfuric Acid - Worst Case
MERON ST
BABCOCK ST
BELLINGER ST
CAMERON ST
MAPPA ST
W MADISON ST
RANDALL ST
RANDALL ST
WHIPPLE ST
MAPPA ST
BEACH ST
1ST AVE
OXFORD AVE
SPRUCE ST
2ND AVE
BELLINGER ST
5TH AVE
CHESTNUT ST
E HALF MOON DR
FULTON ST
6TH AVE
3RD AVE
CENTRAL ST
CONGRESS ST

Oxygen (Compressed Gas) Additional Locations	
Location	Total Amount (Pounds)
Wishart B204 (Main RT Storage Room)	243
Wishart B132 (Facilities Services)	21
Wishart Room 1533 (CCU)	29
Wishart Room 1983 (ED)	25
Wishart Room 1224 (Surgery)	31
Wishart Room 1066 (SPR)	31
Luther Building Room 11113 (Cancer Center)	13
Luther Building Room 11041A (Surgery Center)	25
Luther Building Room 51035 (Neuro / Peds / Trauma)	83
Luther Building Room 41038 (Med Surgery)	38
Luther Building Room 31030 (Med Telemetry)	83
Luther Building Room 21052 (Women's Health / OB)	31
Midelfort Building West Room 3301B (Cardiac Services)	31



MAYO CLINIC HEALTH SYSTEM

Mayo Clinic Health System in Eau Claire
1221 Whipple Street
Eau Claire, WI 54702

Mayo Clinic Health System in Eau Claire - Luther
1400 Bellinger Street
Eau Claire, WI 54702

EAU CLAIRE HOSPITAL SITE PLAN

Revisions		Date	
Date	02/28/2017	Plot Scale	No Scale
Paper Size	17 x 11	Sheet Number	---
Drawn By	BCC		

MATERIAL SAFETY DATA SHEET
BATTERY FLUID ACID
(US, CN, EU Version for International Trade)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Battery Fluid Acid**
OTHER PRODUCT NAMES: Battery Electrolyte, UN2796

MANUFACTURER: East Penn Manufacturing Company, Inc.
DIVISION: Deka Road
ADDRESS: Lyon Station, PA 19536 USA

EMERGENCY TELEPHONE NUMBERS: US: CHEMTREC 1-800-424-9300
CN: CHEMTREC 1-800-424-9300
Outside US: 1-703-527-3887

NON-EMERGENCY HEALTH/SAFETY INFORMATION: 1-610-682-6361

CHEMICAL FAMILY: Sulfuric acid solution.

PRODUCT USE: Electrolyte for Industrial/Commercial electric storage batteries.

This product is considered a Hazardous Substance, Preparation or Article that is regulated under US-OSHA; CAN-WHMIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labeling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labeling, 2001/58/EC-MSDS Content, and 1907/2006/EC-REACH), and an MSDS/SDS is required for this product considering that when used as recommended or intended, or under ordinary conditions, it may present a health and safety exposure or other hazard.

Additional Information
This product may not be compatible with all environments, such as those containing liquid solvents or extreme temperature or pressure. Please request information if considering use under extreme conditions or use beyond current product labeling.

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Health	Environmental	Physical
Acute Toxicity – Not listed (NL) Eye Corrosion – Corrosive Skin Corrosion – Corrosive Skin Sensitization – NL Mutagenicity/Carcinogenicity – NL Reproductive/Developmental – NL Target Organ Toxicity (Repeated) – NL	Aquatic Toxicity – NL	NFPA – Flammable gas, hydrogen (during charging of batteries or contact with finely-divided metals) CN - NL EU - NL

GHS Label: Battery Fluid, Acid

Symbols: C (Corrosive)

Hazard Statements	**Precautionary Statements**
Contact may cause irritation or severe burns. Irritating to eyes, respiratory system, and skin.	Keep out of reach of children. Keep containers tightly closed.

EMERGENCY OVERVIEW: Causes severe burns. Acid mist is irritating to eyes, respiratory system, and skin. Prolonged inhalation or ingestion may result in serious damage to health.

POTENTIAL HEALTH EFFECTS:

EYES: Direct contact with liquid may cause severe burns or blindness.

SKIN: Direct contact with battery fluid may cause skin irritation or damaging burns.

INGESTION: Swallowing this product may cause severe burns to the esophagus and digestive tract and may be harmful or fatal.

INHALATION: Respiratory tract irritation and possible long term effects.

ACUTE HEALTH HAZARDS:
Repeated or prolonged contact may cause skin irritation and/or chemical burns.

CHRONIC HEALTH HAZARDS:
Chronic inhalation of strong mineral acid mists containing sulfuric acid may increase the risk of lung cancer. IARC has listed strong mineral acid mists containing sulfuric acid as a Category 1 carcinogen (carcinogenic in humans).

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Pulmonary edema and bronchitis. Skin diseases may also predispose one to acute and chronic effects of sulfuric acid.

Additional Information
None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS (Chemical/Common Names):	CAS No.:	% by Wt:	EC No.:
Sulfuric acid	7664-93-9	30-43 (average: 36.5)	231-639-5

Additional Information
None known.

SECTION 4: FIRST AID MEASURES

EYE CONTACT: An eye wash/emergency shower should be provided wherever battery acid exposure is possible. Flush eyes with large amounts of water for at least 15 minutes. Remove contaminated clothing and seek immediate medical attention if eyes have been exposed directly to acid.

SKIN CONTACT: Flush affected area(s) with large amounts of water using deluge emergency shower, if available, shower for at least 15 minutes. Remove contaminated clothing. If symptoms persist, seek medical attention.

INGESTION: If swallowed, give large amounts of water. Do NOT induce vomiting or aspiration into the lungs may occur and can cause permanent injury or death.

INHALATION: If inhaled, remove person to fresh air. If breathing difficulties develop, obtain medical treatment.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE/UNSUITABLE EXTINGUISHING MEDIA:
Dry chemical, carbon dioxide, foam. Trained fire fighters may use water spray under certain conditions.

SPECIAL FIRE FIGHTING PROCEDURES & PROTECTIVE EQUIPMENT:
Sulfuric acid will not burn, but is capable of igniting finely divided combustible materials on contact. Use dry chemical agents to smother combustible materials. Avoid breathing mists and vapors. Use full protective equipment (acid-resistant bunker gear) and self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Battery fluid can evolve flammable hydrogen gas when exposed to metals (such as during charging of lead acid batteries) and may increase the fire risk near sparks, excessive heat or open flames. See Section 10 for list of fire by-products.

SPECIFIC HAZARDS IN CASE OF FIRE:
Battery Electrolyte (Sulfuric Acid) is Corrosive.

Additional Information
Firefighting water runoff and dilution water may be toxic and corrosive and may cause adverse environmental impacts.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
Electrolyte material contains sulfuric acids and is corrosive. Wear appropriate protective clothing. If toxic vapors are produced at unknown concentrations, wear a NIOSH-approved respirator or SCBA.
ENVIRONMENTAL PRECATIONS:
Prevent spilled material from entering sewers and waterways.
SPILL CONTAINMENT & CLEANUP METHODS/MATERIALS:
Stop flow of leaking liquid. Small spills: Use clay, sand, or diatomaceous earth. Dike large spills. Neutralize any spilled electrolyte with neutralizing agents, such as soda ash, sodium carbonate/bicarbonate, or lime. Sweep or shovel spilled material and absorbent and place in approved container. Dispose of any non-recyclable materials in accordance with local, state, provincial or federal regulations.

Additional Information
None known.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING AND STORAGE:
- Keep containers tightly closed when not in use.
- Do not handle near heat, sparks, or open flames.
- Protect containers from physical damage to avoid leaks and spills.
- Wear appropriate PPE.

OTHER PRECAUTIONS (e.g.; Incompatibilities):
Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/SYSTEM DESIGN INFORMATION:
Use in areas with adequate ventilation.
VENTILATION:
General dilution ventilation is acceptable. Use local exhaust ventilation if occupational exposure limits are exceeded.
RESPIRATORY PROTECTION:
Not required for normal conditions of use. See also special firefighting procedures (Section 5).
EYE PROTECTION:
Wear protective glasses with side shields or goggles. Use a full face shield when pouring acid or when splashing may occur.
SKIN PROTECTION:
Wear acid resistant gloves as a standard procedure to prevent skin contact.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Acid resistant apron and face shield recommended when adding water or electrolyte to batteries.

EXPOSURE GUIDELINES & LIMITS:

OSHA	Permissible Exposure Limit (PEL/TWA)	Sulfuric acid	1.0 mg/m^3
ACGIH	2007 Threshold Limit Value (TLV)	Sulfuric acid	0.2 mg/m^3
Quebec	Permissible Exposure Value (PEV)	Sulfuric acid	1.0 mg/m^3 TWA
			3.0 mg/m^3 STEV
Ontario	Occupational Exposure Level (OEL)	Sulfuric acid	1.0 mg/m^3 TWAEV
			3.0 mg/m^3 STEV
Netherlands	Maximaal Aanvaarde Concentratie (MAC)	Sulfuric acid	1.0 mg/m^3
		Sulfuric acid	1.0 mg/m^3
Germany	Maximale Arbeitsplatzkonzentrationen (MAK)	Sulfuric acid	1.0 mg/m^3 TWA
			2.0 mg/m^3 STEL

TWA: 8-Hour Time-Weighted Average; STE: Short-Term Exposure; mg/m^3: milligrams per cubic meter of air; NE: Not Established; STEV: Short-Term Exposure Value; TWAEV: Time-Weighted Average Exposure Value; STEL: Short-Term Exposure Limit

Additional Information
None known.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear, colorless liquid
ODOR:	Odorless
ODOR THRESHOLD:	NA
PHYSICAL STATE:	Sulfuric Acid: Liquid
pH:	<1
BOILING POINT:	235-240° F (113-116^{o} C)
MELTING POINT:	NA
FREEZING POINT:	NA
VAPOR PRESSURE:	13 mmHg
VAPOR DENSITY (AIR = 1):	NA
SPECIFIC GRAVITY (H2O = 1):	1.2–1.3
EVAPORATION RATE (n-BuAc=1):	< 1
SOLUBILITY IN WATER:	100%
FLASH POINT:	NA
AUTO-IGNITION TEMPERATURE:	932° F (as hydrogen gas)
LOWER EXPLOSIVE LIMIT (LEL):	4% (as hydrogen gas)
UPPER EXPLOSIVE LIMIT (UEL):	74% (as hydrogen gas)
PARTITION COEFFICIENT:	NA
VISCOSITY (poise @ 25° C):	Not Available
DECOMPOSITION TEMPERATURE:	Not Available

FLAMMABILITY/HMIS HAZARD CLASSIFICATIONS (US/CN/EU): As sulfuric acid

HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 2

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	This product is stable under normal conditions at ambient temperature.
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong bases, finely divided combustible materials, reducing agents, finely divided metals, and strong oxidizers.
HAZARDOUS DECOMPOSITION BY-PRODUCTS:	Thermal decomposition will produce sulfur dioxide, sulfur trioxide, sulfuric acid mist, and hydrogen.
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	Finely divided metals. Concentrated acid may react with water.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (Test Results Basis and Comments):
LD_{50}, Rat: 2140 mg/kg
LC_{50}, Guinea pig: 510 mg/m^3
SUBCHRONIC/CHRONIC TOXICITY (Test Results and Comments):
IARC listed strong mineral acid mists containing sulfuric acid as a Category 1 carcinogen (Carcinogenic to humans).

Additional Information
None known.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE & DEGRADABILITY:
Sulfuric acid is reactive and not very persistent in the ecosystem.
BIO-ACCUMULATIVE POTENTIAL (Including Mobility):
Very high mobility and solubility indicate very low risk of bioaccumulation.
AQUATIC TOXICITY (Test Results & Comments):

24-hour LC_{50}, fresh water fish (*Brachydanio rerio*): 82 mg/l
96-hour LOEC, fresh water fish (*Cyprinus carpio)*: 22 mg/l (lowest observable effect concentration)

Additional Information
- No known effects on stratospheric ozone depletion.
- Volatile organic compounds: 0% (by Volume)
- Water Endangering Class (WGK): NA

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	Neutralize acid and follow local, State/Provincial, and Federal/National regulations applicable to as-used, end-of-life characteristics to be determined by end-user.
HAZARDOUS WASTE CLASS/CODE:	US – Spilled sulfuric acid is a characteristic hazardous waste, U.S. EPA hazardous waste code D002. CN – Not applicable to finished product as manufactured for distribution into commerce. EWC – Not applicable to finished product as manufactured for distribution into commerce.

Additional Information

Battery Electrolyte (Sulfuric Acid) is Corrosive. Dispose as allowed by local jurisdiction for the end-of-life characteristics.

SECTION 14: TRANSPORT INFORMATION

GROUND – US-DOT/CAN-TDG/EU-ADR/APEC-ADR:

Proper Shipping Name	Battery Fluid, Acid		
Hazard Class	8	ID Number	UN2796
Packing Group	II	Labels	Corrosive

AIRCRAFT – ICAO-IATA:

Proper Shipping Name	Battery Fluid, Acid		
Hazard Class	8	ID Number	UN2796
Packing Group	II	Labels	Corrosive

Reference IATA packing instructions Y809 and 809.

VESSEL – IMO-IMDG:

Proper Shipping Name	Battery Fluid, Acid		
Hazard Class	8	ID Number	UN2796
Packing Group	II	Labels	Corrosive

Reference IMDG packing instructions P001.

Additional Information

Transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped.

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS:

All components are listed on the TSCA; EINECS/ELINCS; and DSL, unless noted otherwise below.

U.S. FEDERAL REGULATIONS:

TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b – Export Notification: If the finished product contains chemicals subject to TSCA Section 12b export notification, they are listed below:

Chemical	**CAS #**
None	NA

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)

Chemicals present in the product which could require reporting under the statute:

Chemical	CAS #
Sulfuric acid	7664-93-9

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
The finished product contains chemicals subject to the reporting requirements of Section 313 of SARA Title III.

Chemical	CAS #	% wt
Sulfuric acid	7664-93-9	36.5

CERCLA SECTION 311/312 HAZARD CATEGORIES: Note that the finished product is exempt from these regulations, but lead and sulfuric acid above the thresholds are reportable on Tier II reports.

Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No
Immediate Hazard	Yes (EPA lists sulfuric acid as an Extremely Hazardous Substance)
Delayed Hazard	No

Sulfuric acid is regulated as an Extremely Hazardous Substance
STATE REGULATIONS (US):

California Proposition 65
The following chemicals identified to exist in the finished product as distributed into commerce are known to the State of California to cause cancer, birth defects, or other reproductive harm:

Chemical	CAS #	% Wt
Strong inorganic acid mists including sulfuric acid	NA	36.5

California Consumer Product Volatile Organic Compound Emissions

This Product is not regulated as a Consumer Product for purposes of CARB/OTC VOC Regulations, as-sold for the intended purpose and into the industrial/Commercial supply chain.

INTERNATIONAL REGULATIONS (Non-US):

Canadian Domestic Substance List (DSL)
All ingredients remaining in the finished product as distributed into commerce are included on the Domestic Substances List.

WHMIS Classifications
Class E: Corrosive materials present at greater than 1%
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the Controlled Products Regulations.

NPRI and Ontario Regulation 127/01
This product contains the following chemicals subject to the reporting requirements of Canada NPRI +/or Ont. Reg. 127/01:

Chemical	CAS #	% Wt
None	NA	NA

European Inventory of Existing Commercial Chemical Substances (EINECS)
All ingredients remaining in the finished product as distributed into commerce are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances.

European Communities (EC) Hazard Classification according to directives 67/548/EEC and 1999/45/EC.

R-Phrases	S-Phrases
35	1/2, 26, 30, 45

Additional Information

This product may be subject to additional regulations and laws not identified above, such as for uses other than described or as-designed/as-intended by the manufacturer, or for distribution into specific domestic destinations.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:
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.

SOURCES OF INFORMATION:

International Agency for Research on Cancer (1987), *IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Overall Evaluations of Carcinogenicity: An updating of IARC Monographs Volumes 1-42, Supplement 7, Lyon,* France.
Ontario Ministry of Labour Regulation 654/86. Regulations Respecting Exposure to Chemical or Biological Agents.
RTECS – Registry of Toxic Effects of Chemical Substances, National institute for Occupational Safety and Health.

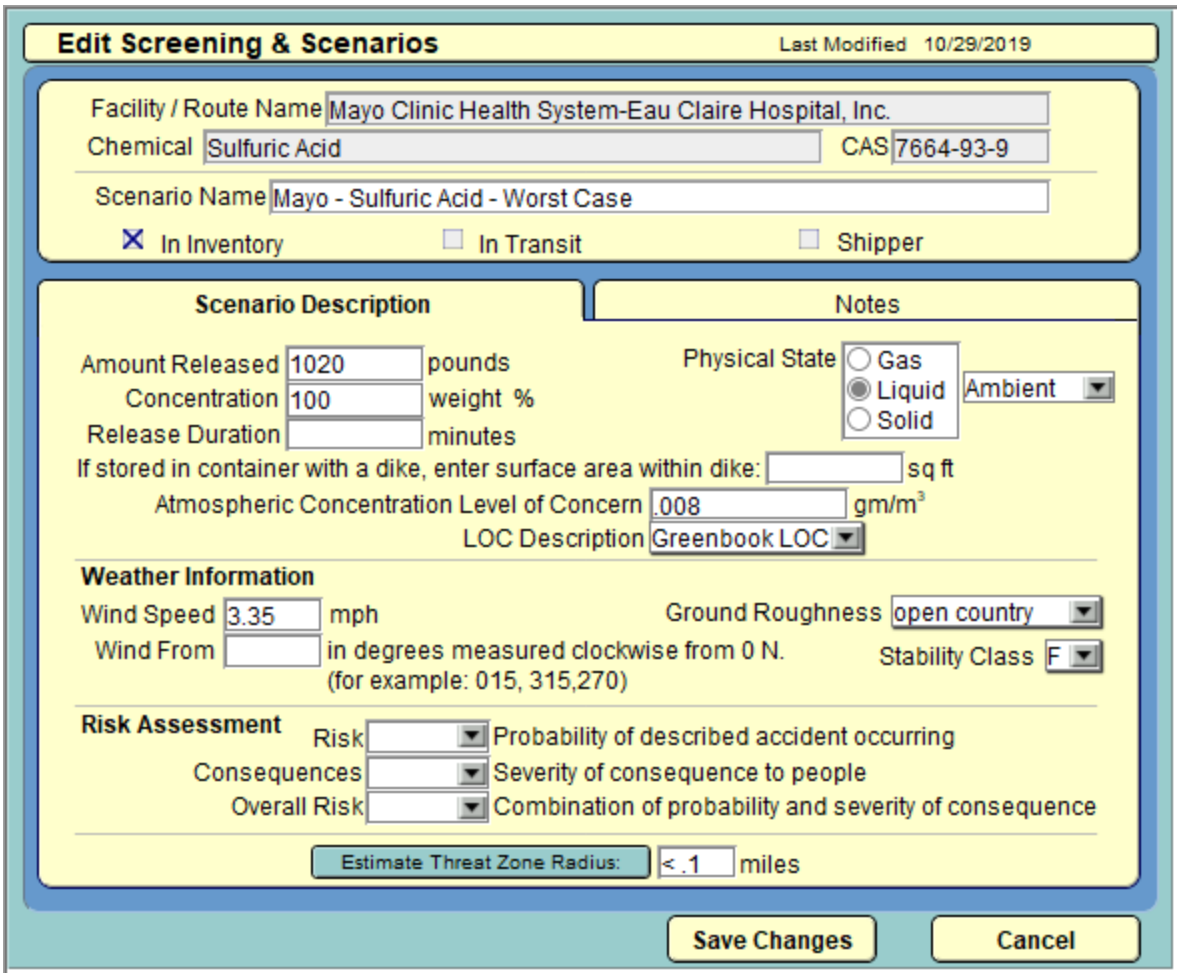
MSDS/SDS PREPARATION INFORMATION:

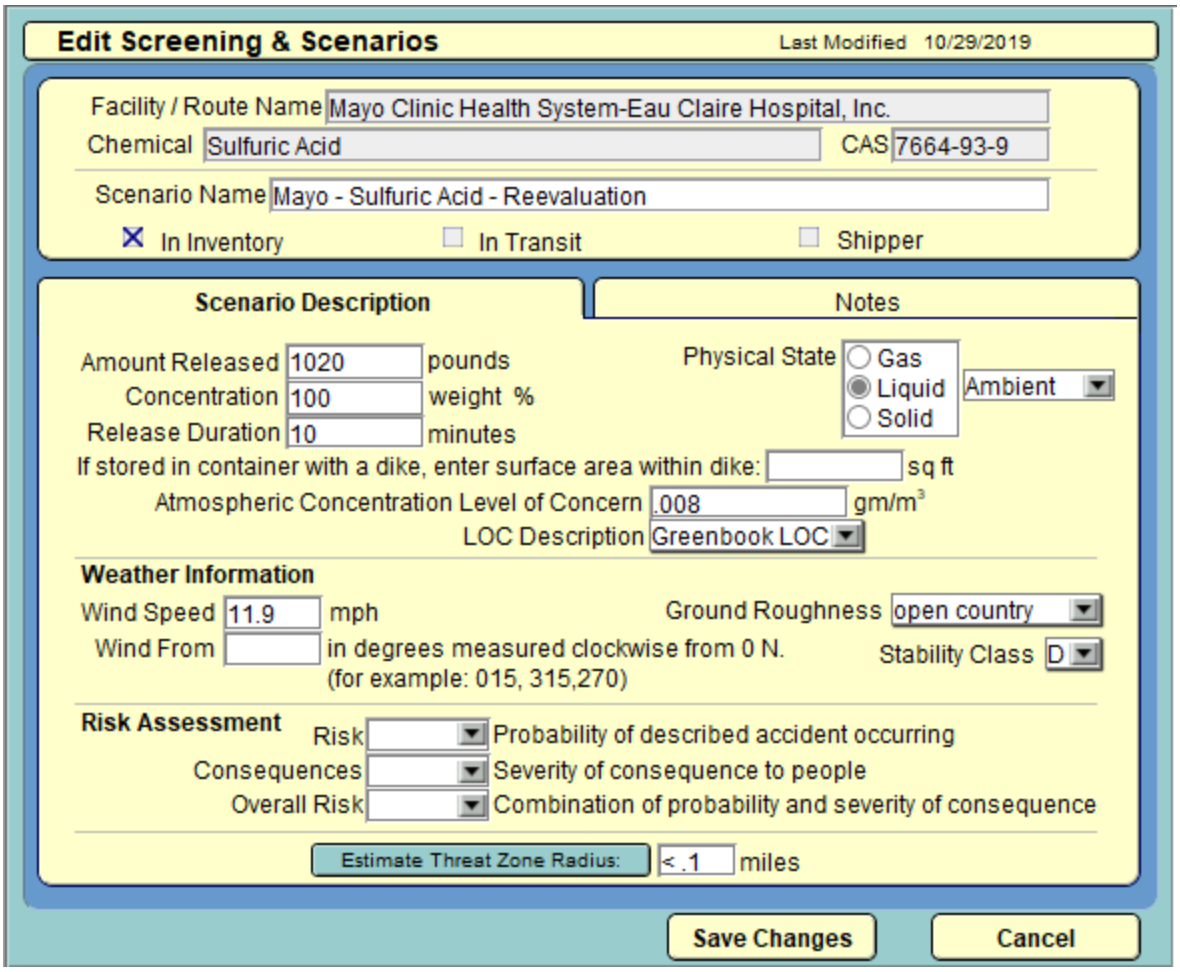
DATE OF ISSUE: ***29 November 2010*** SUPERCEDES: ***10 July 2010***

DISCLAIMER:

This Material Safety Data Sheet is based upon information and sources available at the time of preparation or revision date. Information in the MSDS was obtained from sources which we believe are reliable, but are beyond our direct supervision or control. We make no Warranty of Merchantability, Fitness for any particular purpose or any other Warranty, Expressed or Implied, with respect to such information and we assume no liability resulting from its use. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the obligation of each user of this product to determine the suitability of this product and comply with the requirements of all applicable laws regarding use and disposal of this product. For additional information concerning East Penn Manufacturing Co., Inc. products or questions concerning the content of this MSDS please contact your East Penn representative.

END


Edit Screening & Scenarios
Last Modified 10/29/2019
Facility / Route Name Mayo Clinic Health System-Eau Claire Hospital, Inc.
Chemical Sulfuric Acid
CAS 7664-93-9
Scenario Name Mayo - Sulfuric Acid - Worst Case
In Inventory
In Transit
Shipper
Scenario Description
Notes
Amount Released 1020 pounds
Concentration 100 weight %
Release Duration minutes
Physical State Gas Liquid Solid
Ambient
If stored in container with a dike, enter surface area within dike: sq ft
Atmospheric Concentration Level of Concern .008 gm/m3
LOC Description Greenbook LOC
Weather Information
Wind Speed 3.35 mph
Wind From in degrees measured clockwise from 0 N.
(for example: 015, 315,270)
Ground Roughness open country
Stability Class F
Risk Assessment
Risk Probability of described accident occurring
Consequences Severity of consequence to people
Overall Risk Combination of probability and severity of consequence
Estimate Threat Zone Radius:
< .1 miles
Save Changes
Cancel


Edit Screening & Scenarios
Last Modified 10/29/2019
Facility / Route Name Mayo Clinic Health System-Eau Claire Hospital, Inc.
Chemical Sulfuric Acid
CAS 7664-93-9
Scenario Name Mayo - Sulfuric Acid - Reevaluation
In Inventory
In Transit
Shipper
Scenario Description
Notes
Amount Released 1020 pounds
Concentration 100 weight %
Release Duration 10 minutes
Physical State Gas Liquid Solid
Ambient
If stored in container with a dike, enter surface area within dike: sq ft
Atmospheric Concentration Level of Concern .008 gm/m3
LOC Description Greenbook LOC
Weather Information
Wind Speed 11.9 mph
Ground Roughness open country
Wind From in degrees measured clockwise from 0 N.
(for example: 015, 315,270)
Stability Class D
Risk Assessment
Risk Probability of described accident occurring
Consequences Severity of consequence to people
Overall Risk Combination of probability and severity of consequence
Estimate Threat Zone Radius: < .1 miles
Save Changes
Cancel

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN

TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire

NEW ☑ UPDATE ☐ FINAL UPDATE ☐

Facility ID No. : 120264

Facility Name: American Phoenix, Inc.

Facility Address: 800 Wisconsin Street, Mail Box 11, Eau Claire, Wisconsin 54703

STATEMENT OF PLANNING PROCESS

This plan has been prepared in accordance with state and local requirements and is ready to be made a part of the County Emergency Operations Plan (EOP) / Emergency Response Plan (ERP) upon Wisconsin Emergency Management (WEM) / State Emergency Response Commission (SERC) acceptance. This plan meets the facility off-site planning guidance as established by WEM / SERC. Acceptance of this plan is for planning purposes and does not verify facility compliance with the requirements of EPCRA.

FACILITY SIGNATURES:

I have reviewed the attached plan and to the best of my knowledge, all facility information is true, accurate, and complete. The plan is consistent with facility emergency plans and procedures.

Facility Coordinator WILLIAM L. HABLE — Date August 12, 2020

COUNTY SIGNATURES

I have reviewed the attached plan and to the best of my knowledge, all information is true, accurate, and complete.

County Local Emergency Planning Committee Chair — Date

County Emergency Management Director — Date

WEM / SERC ACCEPTANCE:

This plan has been reviewed and meets the off-site planning guidance as established by WEM / SERC.

WEM Regional Director — Date

NOTE: Facility Off-Site Plan Review Guide attached: Yes ☑ No ☐

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN
TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire
NEW ☑ UPDATE ☐ FINAL UPDATE ☐
Facility ID No. : 120264
Facility Name: American Phoenix, Inc.
Facility Address: 800 Wisconsin Street, Mail Box 11, Eau Claire, Wisconsin 54703

FACILITY OFF-SITE PLAN REVIEW GUIDE

EPCRA Facility Off-Site Plan Elements		Page Number Reference
1)	The facility identification with address.	4
2)	Facility Coordinator / Alternate Coordinator	4
3)	Extremely Hazardous Substances (EHS) chemicals Identified with CAS numbers and maximum amount	4
4)	Primary emergency responders identified	8
5)	Support and resources available from facility	7
6)	General Information / Assumptions (Disclaimer)	9
7)	Hazard analysis summary	7 - 8
8)	Special facilities affected	9
9)	Population protection	8
10)	Special considerations	8
11)	Site Plan / Facility Layout	11 (Appendix 1)

EPCRA HAZARDOUS MATERIALS FACILITY OFF-SITE PLAN
TRANSMITTAL FORM AND REVIEW GUIDE

COUNTY: Eau Claire
NEW ☑ UPDATE ☐ FINAL UPDATE ☐
Facility ID No. : 120264
Facility Name: American Phoenix, Inc.
Facility Address: 800 Wisconsin Street, Mail Box 11, Eau Claire, Wisconsin 54703

12) Distribution list:

Facility
Fire Department of jurisdiction
Wisconsin Emergency Management- Region Office
Designated Hazmat team
County Emergency Management Office
Adjacent County Emergency Management Office when impacted by vulnerability zone

13) Required Attachments

A.	Vulnerability Zone map highlighting special facilities	Page 10
B.	Safety Data Sheet (SDS) for each EHS	Pages 12 - 15 (Appendix 2)
C.	Vulnerability Zone Calculations	Pages 16 - 17 (Appendix 3)
D.	Transportation route(s) map	N/A

American Phoenix, Inc.
Facility Off-Site
Emergency Response Plan

AMERICAN PHOENIX, INC.

Facility #120264
American Phoenix, Inc.
800 Wisconsin Street, Mail Box 11
Eau Claire, Wisconsin 54703

Eau Claire County Office of Emergency Management
721 Oxford Avenue
Suite 3344
Eau Claire, Wisconsin 54703

TABLE OF CONTENTS

RECORD OF CHANGES

Change	Date Changed	Change Made By
Created	August 2020	SS

SECTION 1: FACILITY INFORMATION

A. Address

American Phoenix, Inc.
800 Wisconsin Street, Mail Box 11
Eau Claire, WI 54703

B. Facility ID

120264

C. Map

D. Emergency Contacts

Primary:
William L. Hable
Phone: 715-568-3405
24 Hour: 715-568-3406
hablejudith@gmail.com

Secondary:
John Radle
Phone: 715-831-4468
24 Hour: 715-835-4618
jradle@apimix.net

E. Extremely Hazardous Substances

Sulfuric Acid Chemical ID: 20257 CAS: 7664939 **ERG: Guide 137**	**Inventory:** Max Daily Amount (lbs): 7500 Ave. Daily Amount (lbs): 7500 Number of days on site: 365	**Storage:** Container: Forklift batteries Location: BLDG 7 1ST Floor, All Floors

F. Hazardous Substances

17120C Bale Chemical ID: 330629 CAS: 64742047 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 186879 Ave. Daily Amount (lbs): 14000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG7-3RD
Akrochem PD2 Antiozonate Chemical ID: 330623 CAS: 793248 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 277377 Ave. Daily Amount (lbs): Number of days on site: 365	**Storage:** Container: Box Location: BLDG 7-3RD, BLDG 3X-3RD, BLDG 7 2ND, BLDG 7-4TH
Aromatic Process Oil Chemical ID: 330611 CAS: 64742047 **ERG: 127**	**Inventory:** Max Daily Amount (lbs): 248652 Ave. Daily Amount (lbs): 160000 Number of days on site: 365	**Storage:** Container: Tank inside building, Below ground tank Location: BLDG 3X Basement, BLDG 3 2ND Floor, BLDG 3X-2ND
B-19S Resin Chemical ID: 330631 CAS: 65876951 **ERG: 127**	**Inventory:** Max Daily Amount (lbs): 32747 Ave. Daily Amount (lbs): 20000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 7-3RD Floor, BLDG 7-4TH Floor
Barbe 3215 Chemical ID: 337733 CAS: N/A **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 16758 Ave. Daily Amount (lbs): 12000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 3 Penthouse
Benzothizayl Disulfide (MBTS) Chemical ID: 330612 CAS: 120785 **ERG: 130**	**Inventory:** Max Daily Amount (lbs): 33495 Ave. Daily Amount (lbs): 14000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 9-3RD Floor, BLDG 7-3RD Floor, BLDG 7 4TH
Carbon Black Chemical ID: 330613 CAS: 1333864 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 5656444 Ave. Daily Amount (lbs): 3500000 Number of days on site: 365	**Storage:** Container: Bag Location: Bldg 3-3rd floor, BLDG 3X-4TH Floor, BLDG 3X-3RD Floor, BLDG 7-2ND, Penthouse
DPG Chemical ID: 330614 CAS: 102067 **ERG: 125**	**Inventory:** Max Daily Amount (lbs): 49448 Ave. Daily Amount (lbs): 20000 Number of days on site: 365	**Storage:** Container: Bag, Box Location: BLDG-7-4TH, BLDG 3-3RD Floor, BLDG 7-3rd Floor
Hard Clay Chemical ID: 330625 CAS: 1332587 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 209327 Ave. Daily Amount (lbs): 140000 Number of days on site: 365	**Storage:** Container: Bag Location: BLDG 3 Penthouse
N-T-Butyl Benzothiazolesulfanamide(TBB) Chemical ID: 330615 CAS: 95318 **ERG: 130**	**Inventory:** Max Daily Amount (lbs): 88917 Ave. Daily Amount (lbs): 50000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 7-3RD, BLDG 7-4TH, BLDG 7-3RD Floor, BLDG 9-3RD Floor
Napthenic Oil Chemical ID: 66323 CAS: 647425225 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 99280 Ave. Daily Amount (lbs): 5500 Number of days on site: 365	**Storage:** Container: Tank inside building Location: BLDG 3X Basement, BLDG 3X 2ND Floor, BLDG 3 GROUND Floor

Oil Treated Crystex Chemical ID: 330616 CAS: 9035998 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 101543 Ave. Daily Amount (lbs): 50000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 7-3RD Floor, BLDG 7 2ND Floor
Peptizer 66 Chemical ID: 337674 CAS: 135579 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 177738 Ave. Daily Amount (lbs): 6000 Number of days on site: 365	**Storage:** Container: Bag Location: BLDG 7TH Floor
Polyethylen Dust Chemical ID: 337683 CAS: 9002884 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 13021 Ave. Daily Amount (lbs): 10000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 7 3RD Floor
Resorcinol Chemical ID: 330628 CAS: 108463 **ERG: 153**	**Inventory:** Max Daily Amount (lbs): 78640 Ave. Daily Amount (lbs): 30000 Number of days on site: 365	**Storage:** Container: Box, Bag Location: BLDG 3-3RD Floor, BLDG 7-2ND Floor, BLDG 7-4TH Floor
Santocure (CBS) Chemical ID: 330617 CAS: 95330 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 26072 Ave. Daily Amount (lbs): 20000 Number of days on site: 365	**Storage:** Container: Box, Bag Location: Bldg-7-3rd Floor, BLDG 7-2ND Floor, BLDG 7-4TH Floor
Sataguard PVI Chemical ID: 330622 CAS: 17796826 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 33014 Ave. Daily Amount (lbs): 20000 Number of days on site: 365	**Storage:** Container: Box Location: Bldg-7-3RD Floor, BLDG 3-3RD Floor
Saytex 8010 Chemical ID: 330626 CAS: 84852539 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 13693 Ave. Daily Amount (lbs): 4000 Number of days on site: 365	**Storage:** Container: Box, Bag Location: BLDG 7-3RD FLOOR, BLDG 7-4TH FLOOR
SBR1723 Bale Chemical ID: 337595 CAS: N/A **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 127078 Ave. Daily Amount (lbs): 70000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 3-3RD Floor
Sulfur Chemical ID: 330618 CAS: 7704349 **ERG: 133**	**Inventory:** Max Daily Amount (lbs): 86110 Ave. Daily Amount (lbs): 65000 Number of days on site: 365	**Storage:** Container: Box, Bag Location: Bldg-7-3rd Floor, BLDG 7-2ND Floor, BLDG 7-4TH, BLDG 3-3RD Floor
Thiram (TMTD) Chemical ID: 330621 CAS: 137268 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 20426 Ave. Daily Amount (lbs): 10000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 3-3RD Floor, BLDG 7-4TH Floor
TMQ Chemical ID: 330619 CAS: 26780961 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 110595 Ave. Daily Amount (lbs): 80000 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 3-3RD Floor, BLDG 3X-3RD Floor, BLDG 7-2ND Floor, BLDG 7-4TH Floor, BLDG 7-3RD Floor
Wingstay 100 Chemical ID: 330624 CAS: 68953844 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 35365 Ave. Daily Amount (lbs): 22500 Number of days on site: 365	**Storage:** Container: Box Location: BLDG 9-3RD Floor, BLDG 3-3RD Floor, BLDG 7-3RD Floor

Zinc Oxide Chemical ID: 322789 CAS: 1314132 **ERG: N/A**	**Inventory:** Max Daily Amount (lbs): 411668 Ave. Daily Amount (lbs): 200000 Number of days on site: 365	**Storage:** Container: Box, Bag Location: Bldg-7-3RD Floor, BLDG 7-2ND Floor, BLDG 5-3RD Floor, BLDG 7-4TH Floor, BLDG 3-3RD Floor, BLDG 9-3RD Floor

G. Resources/Support Available

The facility has fire sprinkler systems located throughout the building. There is also a 30,000-gallon fire tank and fire pump systems for fire suppression.

H. Hazard Analysis

American Phoenix, Inc. is located in an old plant used for rubber mixing. The facility is bordered by a residential area to the north, residential and commercial zoned properties to the east, and commercial/residential properties to the south and west. The facility is comprised of several buildings. The facility is manned 24 hours a day Monday through Friday and has 220 employees.

Sulfuric Acid (7,500 lb.) is stored in lead batteries in forklifts in the facility. Batteries are replaced at the end of their life cycle in accordance with local, state, and federal law.

The worst case scenario for each chemical was based on the maximum quantity of chemical present or the largest container of the product; whichever is less. (7,500 pounds of Sulfuric Acid). Criteria are:

Very stable air (Class F)
Night time
Open area
3.35 mph wind
IDLH (Immediately Dangerous to Life and Health) concentration
Rapid release of maximum quantity of chemical in a single vessel (10 minutes)

The evacuation radius, as calculated by the CAMEO software package for 7,500 pounds of Sulfuric Acid release, was determined to be less than 0.1 miles. The Vulnerability Zone encompasses most of the footprint of the American Phoenix, Inc. facility, a portion of the road right-of-way, and adjacent properties to the east, but it does not pose a significant danger to homes and businesses in the area. The potentially affected population is approximately 50 houses (200 people).

The re-evaluation scenario criteria are:

Neutral air stability (Class D)
Night time
Open area
11.9 mph wind
1/10 IDLH (Immediately Dangerous to Life and Health) concentration
10 minute release of maximum quality of chemical in a single vessel

The evacuation radius, as calculated by the CAMEO software package for a 7,500 lb. sulfuric acid release was determined to be less than 0.1 miles. The Vulnerability Zone primarily affects the employees in the immediate vicinity of the release.

Reevaluation was made for a 10 minute (rapid) release. The evacuation radius was determined to be less than 0.1 mile. The Vulnerability Zone primarily affects the employees in the immediate vicinity of the release.

Sulfuric acid is used in batteries for forklifts. Each of the batteries serves as a separate container. If all battery cases failed at one time the total release would not affect an area as large .1 mile. The only scenario, which

could produce a spill of this sort would be an explosion and that would involve heat and fire which is not addressed in this planning.

There are no local ordinances in Eau Claire County which mandate specific routes for vehicles carrying Extremely Hazardous Substances (EHSs). Thus, EHSs may be transported over any local, state, or federal road for which weight limits are met.

I. Access to Facility

The facility has a badged entry system. There are fire escapes located at the south side of the facility that are exit only. These escapes are reviewed annually by the Eau Claire Fire Department.

SECTION 2: OUTSIDE RESOURCES

A. Primary Response Agencies

Fire:	**EMS:**	**Law:**	**Emergency Management:**
Eau Claire Fire Department Eau Claire, WI 54701 Phone: 715-834-6868	Eau Claire Fire Department Eau Claire, WI 54701 Phone: 715-839-5012	Eau Claire County Sheriff's Office 721 Oxford Avenue Suite 1400 Eau Claire, WI 54703 Phone: 715-839-4701	Eau Claire Office of Emergency Management 721 Oxford Avenue Suite 3344 Eau Claire, WI 54703 Phone: 715-839-4736

B. Hazardous Materials Response Teams

Eau Claire County has a Level B hazardous materials response team. For Level B response, the local Fire Chief notifies the Level B team of a response needed through the Eau Claire County Emergency Communications Center. For Level A responses by the Type 1 Regional Hazardous Materials Response Team, requests shall be made through the WEM Duty officer by the county Emergency Management Director.

C. Other Outside Assistance

See the County-Wide Hazardous Materials Strategic Plan for a listing of resources.

SECTION 3: POPULATION/ENVIRONMENTAL PROTECTION

A. Shelter-In-Place

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 without windows or exterior doors, enclosed stairways and 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.

B. Evacuation

Experience indicated 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. All public schools listed are eligible evacuation shelters.

C. Nearby Shelters

Not applicable.

SECTION 4: VULNERABILITY ZONES

A. General Information and Assumptions

The vulnerability zones set forth in this Plan are based on the EPA Technical Guidance for Hazards Analysis. The zones are based on a credible worst case scenario and identify the potential area for impact should an airborne release of a single EHS chemical occur.

The vulnerability zones are NOT intended to be used as a guide for population protection in fire related incidents. Fire incidents were considered in the development of this plan and the plan provides basic information about the facility for first responders to employ. However, in an actual fire situation at this facility, the Incident Commander is strongly recommended to reference the fire department's own individual agency pre emergency plans and standard operating procedures as well as the County's Emergency Operations Plan Annex K: Fire and Rescue, as they may relate to this facility when making decisions at an incident involving fire.

Further, fire departments that would respond to an incident at this facility are strongly encouraged to meet with facility representatives to determine ways to minimize an event at the facility and to determine what additional information and factors should be taken into consideration in the event of a fire, should one occur.

The actual response to an incident will be determined by the field incident commander 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.

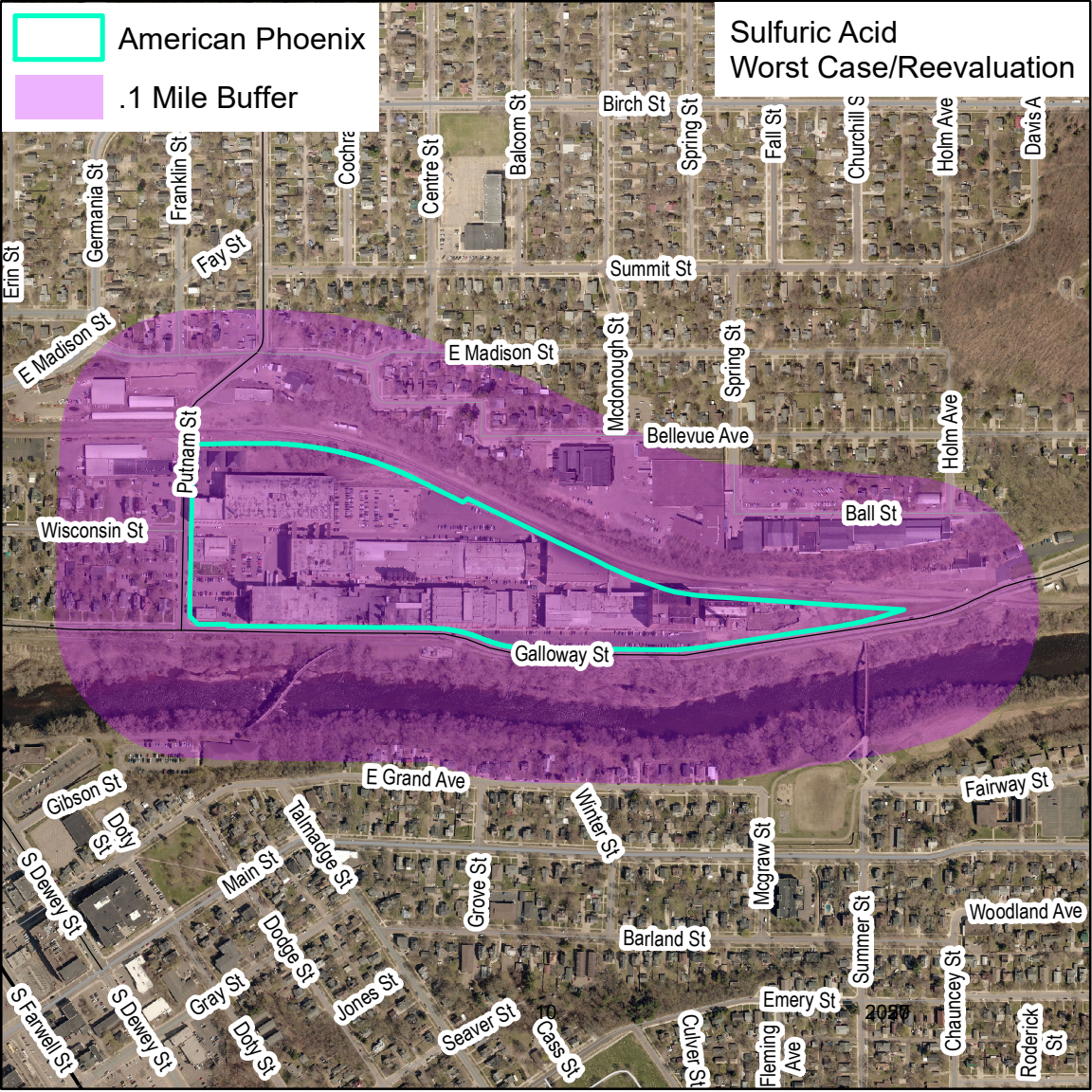
The vulnerability zones determined in this Plan are for general PLANNING PURPOSES.

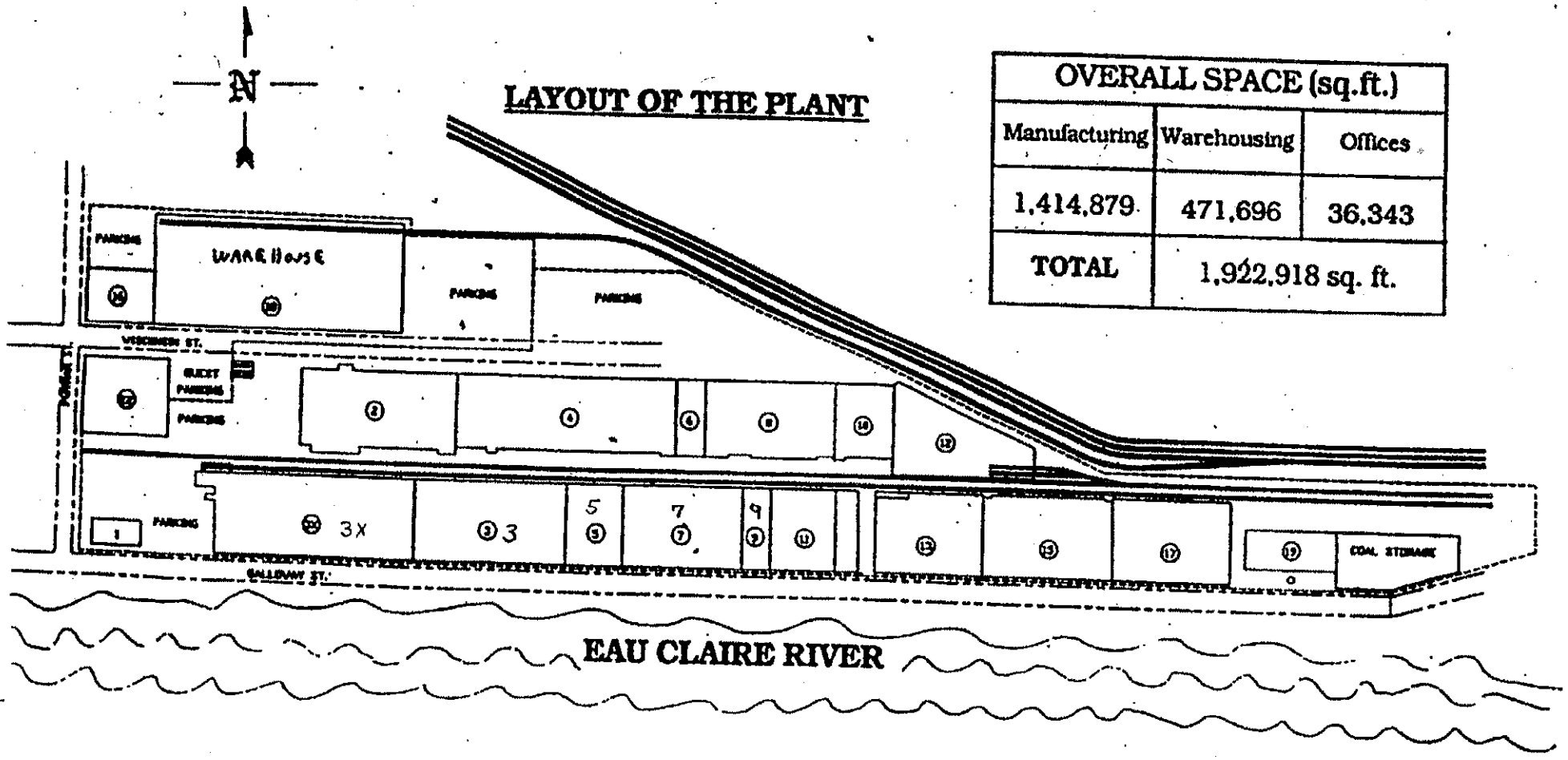
B. Special Facilities Affected

None.

C. Vulnerability Zone Map

See map


American Phoenix
.1 Mile Buffer
Sulfuric Acid
Worst Case/Reevaluation
Birch St
Balcom St
Spring St
Fall St
Holm Ave
Davis A
Germania St
Franklin St
Centre St
Erin St
Fay St
Summit St
E Madison St
Mcdonough St
Spring St
Bellevue Ave
Holm Ave
Putnam St
Wisconsin St
Ball St
Galloway St
E Grand Ave
Fairway St
Gibson St
Doty St
Talmadge St
Winter St
Mcgraw St
S Dewey St
Main St
Grove St
Barland St
Summer St
Woodland Ave
Dodge St
Gray St
Jones St
Emery St
Chauncey St
S Farwell St
S Dewey St
Doty St
Seaver St
Cass St
Fleming Ave
Roderick St
10
2020



OVERALL SPACE (sq.ft.)		
Manufacturing	Warehousing	Offices
1,414,879	471,696	36,343
TOTAL	1,922,918 sq. ft.	

Safety Data Sheet

Sulfuric Acid, Concentrated 18 M

Section 1 Product Description

Product Name:	Sulfuric Acid, Concentrated 18 M
Recommended Use:	Science education applications
Synonyms:	Oil of Vitriol; , Hydrogen Sulfate
Distributor:	Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150
Chemical Information:	800-227-1150 (8am-5pm (ET) M-F)
Chemtrec:	800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER

Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled. May cause cancer. Harmful to aquatic life.

GHS Classification:
Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1A, Acute Toxicity - Inhalation Dust / Mist Category 3, Hazardous to the aquatic environment - Acute Category 3

Other Safety Precautions:	IF exposed or concerned: Get medical advice/attention.
Acute Toxicity Dermal Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%
Sulfuric Acid, Concentrated 18M	7664-93-9	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Ingestion:	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5 Firefighting Procedures

Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Non-combustible but contact with water or moisture may generate sufficient heat to ignite combustible materials Contact with water produces sulfuric acid.
Hazardous Combustion Products:	Sulfur Oxides

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Do not allow the spilled product to enter public drainage system or open waterways.

Section 7 Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Never add water to this product.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8 Protection Information

	ACGIH		OSHA PEL	
Chemical Name	**(TWA)**	**(STEL)**	**(TWA)**	**(STEL)**
Sulfuric Acid, Concentrated 18M	0.2 mg/m3 TWA (thoracic fraction)	N/A	1 mg/m3 TWA	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s): NIOSH approved air purifying respirator with acid gas cartridge and dust/mist filter

Eye Protection: Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile - Extra Thick (8 mm)

Section 9 Physical Data

Formula: H2SO4
Molecular Weight: 98.08
Appearance: Colorless, Oily Liquid
Odor: Strong Pungent
Odor Threshold: No data available
pH: -1.26
Melting Point: 10 C
Boiling Point: 280 C
Flash Point: No data available
Flammable Limits in Air: No data available
Vapor Pressure: 0.7 hPa at 25°C
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: 1.834-1.836 at 20°C
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: 0.24
Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Moderately reactive - See below

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Contact with water
Incompatible Materials: Water, Organic Compounds, Strong reducing agents, Acetaldehydes, Amines
Hazardous Decomposition Products: Sulfur Oxides
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Inhalation.
Symptoms (Acute): Respiratory disorders
Delayed Effects: Dental Erosion

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric Acid, Concentrated 18M	7664-93-9	Oral LD50 Rat 2140 mg/kg	Not determined	INHALATION LC50 GUINEA PIG 18 MG/M3 INHALATION LC50 Rat 510 MG/M3 INHALATION LC50 Mouse 320 MG/M3

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Sulfuric Acid, Concentrated 18M	7664-93-9	Not listed	Not listed	Listed

Chronic Effects:
Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: Respiratory system

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: Biodegradation, adsorption to sediment, and bioconcentration to aquatic organisms should not be significant.
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Sulfuric Acid, Concentrated 18M	7664-93-9	96 HR LC50 BRACHYDANIO RERIO > 500 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 29 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:

Sulfuric Acid, Concentrated 18 M

Air - IATA Proper Shipping Name:

UN1830
Sulfuric Acid
Class 8
P.G. II

UN1830
Sulfuric Acid
Class 8
P.G. II

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sulfuric Acid, Concentrated 18M	7664-93-9	Sulfuric acid	1000 lb RQ	1000 lb final RQ; 454 kg final RQ	1000 lb TPQ	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer.

Section 16 Additional Information

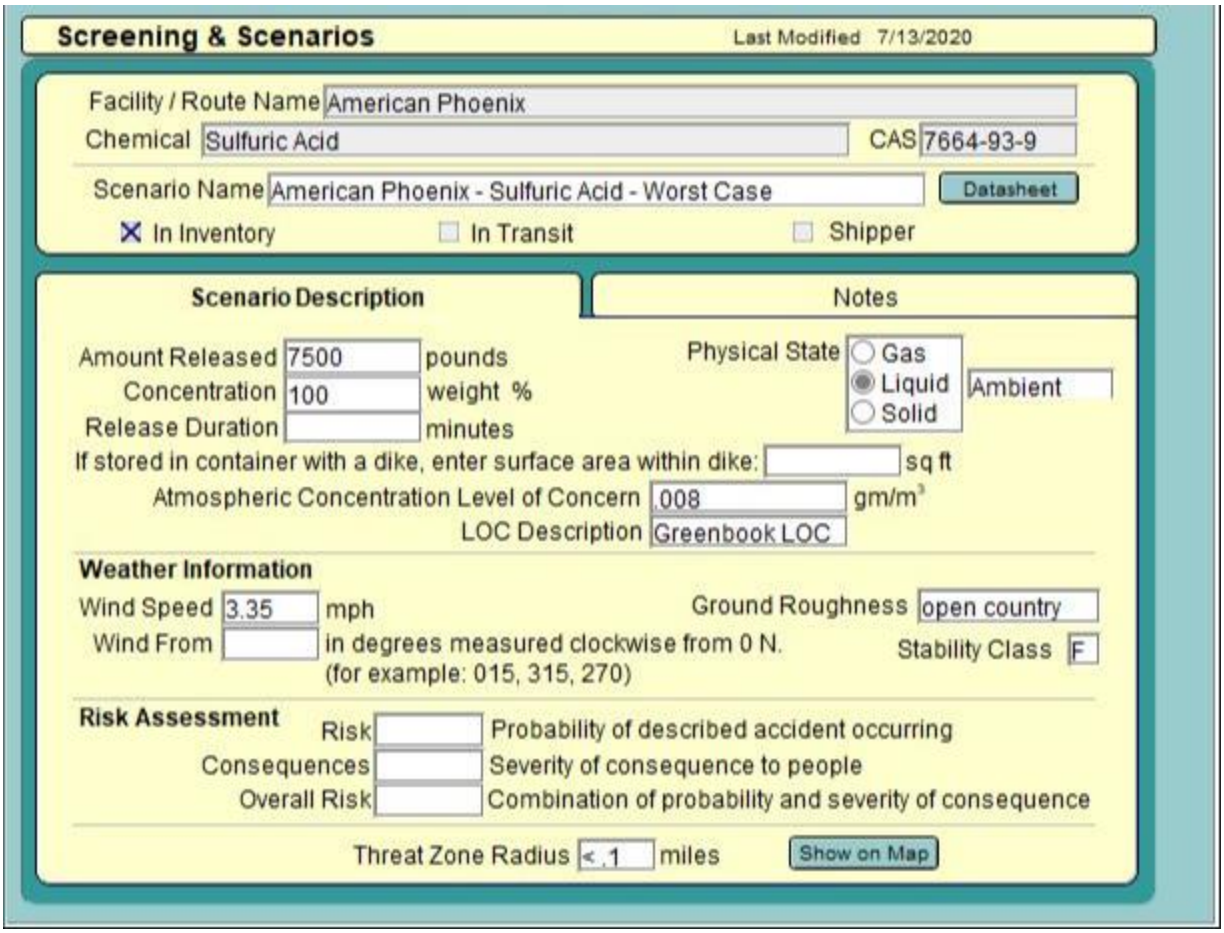
Revised: 09/09/2015 **Replaces: 09/03/2014** **Printed: 10-29-2015**

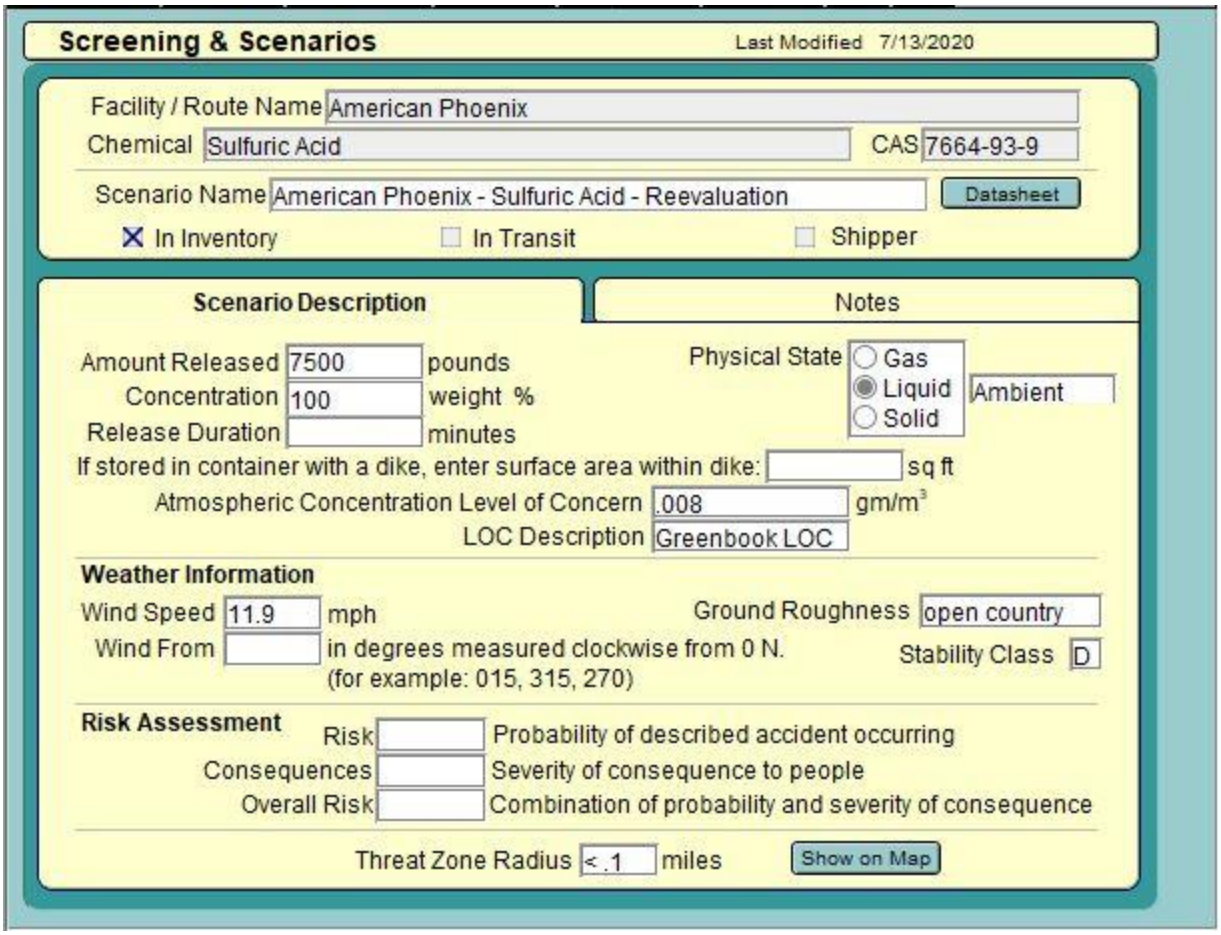
The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency for Research on
N/A	Cancer Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
IDLH	Immediately dangerous to life and health

APPENDIX 3: CAMEO CALCULATIONS




Screening & Scenarios
Last Modified 7/13/2020
Facility / Route Name American Phoenix
Chemical Sulfuric Acid
CAS 7664-93-9
Scenario Name American Phoenix - Sulfuric Acid - Reevaluation
Datasheet
In Inventory
In Transit
Shipper
Scenario Description
Notes
Amount Released 7500 pounds
Concentration 100 weight %
Release Duration minutes
Physical State Gas Liquid Solid
Ambient
If stored in container with a dike, enter surface area within dike: sq ft
Atmospheric Concentration Level of Concern .008 gm/m3
LOC Description Greenbook LOC
Weather Information
Wind Speed 11.9 mph
Ground Roughness open country
Wind From in degrees measured clockwise from 0 N.
(for example: 015, 315, 270)
Stability Class D
Risk Assessment
Risk Probability of described accident occurring
Consequences Severity of consequence to people
Overall Risk Combination of probability and severity of consequence
Threat Zone Radius < .1 miles
Show on Map