From: Petrus, Benjamin A - DNR
Sent: Wednesday, April 19, 2023 1:50 PM
To: Dykstra, Ryan; Stoffer, Jonathan L - DNR; Coenen, Douglas W - DNR
Cc: Bannister, Trevor A - DNR
Subject: RE: Follow Up for 4/4/2023 Spill
Attachments: Diethanolamine SDS.pdf; Spill Report.pdf; Spill Report Diethanolamine Spilled on 4_4_2023.pdf

Also just an FYI, it looks like the spelling of Trevor's email address was a little off so it bounced back and he didn't get it. I've cc'd the correct email.

For reference his email is TrevorA.Bannister@wisconsin.gov.

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Ben Petrus
Phone: (414) 651-4694
Benjamin.Petrus@Wisconsin.gov

From: Petrus, Benjamin A - DNR
Sent: Wednesday, April 19, 2023 1:42 PM
To: Dykstra, Ryan <ryan.dykstra@Hydrite.com>; Stoffer, Jonathan L - DNR <Jonathan.Stoffer@wisconsin.gov>; Coenen, Douglas W - DNR <Douglas.Coenen@wisconsin.gov>
Cc: Trevor.Bannister@wisconsin.gov
Subject: RE: Follow Up for 4/4/2023 Spill

Report received. Thank you Ryan.

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Ben Petrus
Phone: (414) 651-4694
Benjamin.Petrus@Wisconsin.gov

From: Dykstra, Ryan <ryan.dykstra@Hydrite.com>
Sent: Wednesday, April 19, 2023 11:04 AM
To: Petrus, Benjamin A - DNR <Benjamin.Petrus@wisconsin.gov>; Stoffer, Jonathan L - DNR <Jonathan.Stoffer@wisconsin.gov>; Coenen, Douglas W - DNR <Douglas.Coenen@wisconsin.gov>
Cc: Trevor.Bannister@wisconsin.gov
Subject: Follow Up for 4/4/2023 Spill

CAUTION: This email originated from outside the organization.
Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello,

Attached is the follow-up report for the spill that occurred here at Hydrite on 4/4/2023. Please let me know if you have any questions or require any additional information.

Thanks!

Ryan Dykstra

Ryan Dykstra | Environmental Compliance Specialist
114 N Main St
Cottage Grove WI 53527

P: 608-839-8110
ryan.dykstra@Hydrite.com

Hydrite Wins Grand Award in the Mega Category

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SAFETY DATA SHEET

DIETHANOLAMINE 99% STANDARD GRADE
Product ID: OR0400
Revised: 07-20-2016
Replaces: 04-14-2015

1. IDENTIFICATION

Product Identifier:	DIETHANOLAMINE 99% STANDARD GRADE
Other Identifiers:	2,2'-Iminodiethanol; Dihydroxyethylamine; B,B'-dihydroxyethylamine; DEA
CAS Number:	MIXTURE
Recommended Use:	No data available.
Restrictions on Use:	No data available.

Hydrite Chemical Co.
17385 Golf Parkway
Brookfield, WI 53045
(262) 792-1450

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency #: (414) 277-1311
CHEMTREC Emergency #: (800) 424-9300

2. HAZARD(S) IDENTIFICATION

GHS Classification(s):
Serious Eye Damage/Eye Irritation Category 1
Skin Corrosion/Irritation Category 2
Carcinogenicity Category 2
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
Acute Toxicity - Oral Category 4

GHS Label Elements:

GHS Hazard Symbols:

Signal Word: Danger

Hazard Statements:
Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs (liver, kidney by ingestion).
May cause damage to organs (blood system, kidneys, liver, testes) through prolonged or repeated exposure (by ingestion).

Precautionary Statements:

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.

Response:
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.
Specific treatment (see First Aid on SDS or on this label).
Rinse mouth.
If skin irritation occurs: Get medical advice or attention.
Take off contaminated clothing and wash before reuse.

Storage: Store in a secure manner.

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

Hazards Not Otherwise Classified: None known.

Percentage of Components with Unknown Acute Toxicity:
Dermal: 100 %
Inhalation Vapor: 100 %
Inhalation Dust/Mist: 100 %

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances/Mixtures:

Chemical or Common Name/Synonyms	CAS Number	% by Wt.
Diethanolamine	111-42-2	>=99.2%

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

4. FIRST-AID MEASURES

Description of Necessary Measures:

Eye Contact: If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Remove contact lenses if worn. If effects occur, consult a physician, preferably an ophthalmologist

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

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

Ingestion: If swallowed: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Rinse mouth with fresh water.

Most Important Symptoms/Effects, Acute and Delayed:

Eye Contact: Causes severe irritation. May cause: serious eye damage. blindness. redness. pain. tearing.

Skin Contact: Causes severe irritation. Causes: pain. redness. swelling. Prolonged or repeated exposure may cause: burns. blistering. tissue destruction.

Skin Absorption: No evidence of harmful effects based on available information.

Inhalation: May cause moderate to severe irritation. May cause: coughing. wheezing. sore throat. tightness of the chest. difficulty breathing. nausea. vomiting.

Ingestion: Causes severe irritation. May be harmful if swallowed. Symptoms of overexposure may include: abdominal pain. chest pain. nausea. vomiting. diarrhea. Repeated ingestion may cause: kidney effects. liver effects. anemia.

Indication of Immediate Medical Attention and Special Treatment Needed: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Following severe exposure medical follow-up should be monitored for at least 48 hours.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog. Alcohol resistant foam. Dry chemical. DO NOT use a solid stream of water directly on the fire as the water may spread the fire to a larger area.

Specific Hazards Arising from the Chemical:

Fire and Explosion Hazards: Material will burn in fire. Container may rupture from gas generation in a fire situation.

Hazardous Combustion Products: Carbon oxides. Nitrogen oxides. Hydrogen cyanide. Ammonia. Formaldehyde.

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

6. ACCIDENTAL RELEASE MEASURES

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

Methods and Materials for Containment and Clean Up: Contain spill, place into drums for proper disposal. Soak up residue with non-flammable absorbent material. Place in non-leaking containers for immediate disposal. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Prevent entry into basements, low areas, or confined areas. CAUTION: Spilled material is very slippery.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Do not add nitrites or other nitrosating agents. A nitrosamine, which may cause cancer, may be formed.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Do not store in aluminium, copper, or copper alloy containers. Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:

Component	Limits
No components found.	

ACGIH Exposure Guidelines:

Component	Limits
Diethanolamine	1 mg/m3 TWA (inhalable fraction and vapor); (Skin)

Engineering Controls: General room ventilation is required. To keep exposure below established limits, local exhaust may be necessary. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Individual Protection Measures:

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

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

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

Other Protective Equipment: Eye-wash station. Safety shower. Rubber apron. Rubber boots. Protective clothing.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid above freezing point, solid below freezing point.
Color: Clear, colorless above freezing point, white below freezing point.
Odor: Amine-like.
Odor Threshold: N.D.
pH: 11.5 (as is)
Freezing Point (deg. F): 82.4
Melting Point (deg. F): 82.4
Initial Boiling Point or Boiling Range: > 514 °F
Flash Point: 309 °F
Flash Point Method: CC.
Evaporation Rate (nBuAc = 1): N.D.
Flammability (solid, gas): N.D.
Lower Explosion Limit: N.D.
Upper Explosion Limit: N.D.
Vapor Pressure (mm Hg): N.D.
Vapor Density (air=1): 3.6-3.7
Specific Gravity or Relative Density: 1.09
Solubility in Water: Miscible
Partition Coefficient (n-octanol/water): N.D.
Autoignition Temperature: ~ 689 Deg. F.
Decomposition Temperature: N.D.
Viscosity: N.D.
% Volatile (wt%): N.D.
VOC (wt%): 100
VOC (lbs/gal): N.D.
Fire Point: N.D.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under normal conditions.

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

Conditions to Avoid: WARNING: Do not mix this product with nitrites or other nitrosating agents because a nitrosamine may be formed. Nitrosamines may cause cancer. Avoid contact with absorbent materials such as cellulose and sawdust.

Incompatible Materials: Oxidizing agents. Organic materials. Acids. Alkalies.

Hazardous Decomposition Products: Carbon oxides. Nitrogen oxides. Halogenated compounds.

11. TOXICOLOGICAL INFORMATION

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

Symptoms/Effects: Acute, Delayed and Chronic:

Eye Contact: Causes severe irritation. May cause: serious eye damage. blindness. redness. pain. tearing.

Skin Contact: Causes severe irritation. Causes: pain. redness. swelling. Prolonged or repeated exposure may cause: burns. blistering. tissue destruction.

Skin Absorption: No evidence of harmful effects based on available information.

Inhalation: May cause moderate to severe irritation. May cause: coughing. wheezing. sore throat. tightness of the chest. difficulty breathing. nausea. vomiting.

Ingestion: Causes severe irritation. May be harmful if swallowed. Symptoms of overexposure may include: abdominal pain. chest pain. nausea. vomiting. diarrhea. Repeated ingestion may cause: kidney effects. liver effects. anemia.

Numerical Measures of Toxicity:

Component	Oral LD50	Dermal LD50	Inhalation LC50
Diethanolamine	Rat: 1 ml/kg	No Data	No Data

Acute Toxicity Estimate (ATE):
Oral: 500 mg/kg

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

Medical Conditions Aggravated by Exposure to Product: None known.

Other: DO NOT USE sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Chronic: May cause damage to the following: kidneys. liver. Contains material which may cause damage to the following: blood. testes.

Diethanolamine:
Carcinogenicity: Findings from a chronic diethanolamine skin painting study by NTP include liver and kidney tumors in mice; no tumors were observed in rats. Mechanistic studies indicate that tumor formation is of questionable relevance to humans. A number of factors may have influenced the results and are being considered in their interpretation. Mutagenicity: No known significant effects or critical hazards.

Suspected of damaging fertility. May cause toxicity to male reproduction. Testicular effects have been found after repeated exposures.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data available.

Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: N.A.

Disposal Method: Dispose of in accordance with all local, state and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder,

drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition. Do NOT dump into any sewers, on the ground, or into any body of water.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):

Identification Number:	UN3077
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS DIETHANOLAMINE)
Hazard Class:	9
Packing Group:	III
Label Required:	Class 9
Reportable Quantity (RQ):	100# (Diethanolamine)

15. REGULATORY INFORMATION

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

SARA Title III Section 311/312 Category Hazards:

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

Regulated Components:

Component	CAS Number	CERCLA RQ	SARA EHS	SARA 313	U.S. HAP	WI HAP	Prop 65
Diethanolamine	111-42-2	Yes	No	Yes	Yes	Yes	Yes

16. OTHER INFORMATION

Hazard Rating System
Health: 2*
Flammability: 1
Reactivity: 0
* = Chronic Health Hazard

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

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

SDS Prepared by: JAK

Reason for Revision: New format.

Revised: 07-20-2016
Replaces: 04-14-2015

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

WDNR SPILL REPORT

DATE:4/19/23

1. NAME, ADDRESS AND TELEPHONE NUMBER OF OPERATOR / FACILITY

   Ryan Dykstra
   Hydrite Chemical Co. (WID000808824)
   114 N. Main Street
   Cottage Grove, WI 53527
   608-839-8110

2. DATE, TIME AND TYPE OF INCIDENT

   Date: 4/4/23
   Time: 10:30
   Duration: 5 min
   Type: Spill

3. NAME, LOCATION AND QUANTITY OF MATERIALS RELEASED

   10 gallons (86 pounds) of Diethanolamine was spilled inside of South Process room.

4. DESCRIPTION OF INCIDENT AND ASSESSMENT OF POTENTIAL HAZARDS TO HUMAN HEALTH AND/OR THE ENVIRONMENT.

   A seal on a heat exchanger located in the South Process room failed releasing diethanolamine onto the floor. The floor is sealed concrete. The heat exchanger pump was shut off, the room was isolated, and the spill was quickly contained and cleaned up using absorbent pads. Due to the quick response time, the risk to human health, and the environment was low.

5. QUANTITY AND DISPOSITION OF RECOVERED MATERIAL

   100% of material was recovered and disposed of as hazardous waste.

ATTACH: Spill Report with SDS

CC: Ben Petrus: WDNR Hazardous Waste Specialist
Doug Coenen: WDNR Waste Management Specialist
Trevor Bannister: Hydrogeologist
Hydrite Chemical Co. Legal File

CHEMICAL RELEASE REPORT

HYDRITE CHEMICAL CO.

Branch:	CGE	**Completed By:**	Savanna Biedermann
Date of Incident:	4/4/23	**Hydrite Contact:**	Garrett Schauff
Time of Incident:	1030	**Address:**	114 N Main St
Duration of Incident:	5min	**Phone:**	608.839.8167

Chemical(s) Released	Total Est. Quantity Released (lbs)	Est. Quantity of Release to Environment (lbs)	CERCLA RQ (lbs)	EHS RQ (lbs)	Contingency Plan Implemented
Hazardous Waste (Check One) ☐ Yes ☒ No					
Diethanolamine	10gal / 86#	Ø	100 LBS		☐ Yes ☒ No

Names of Contact & Agencies Notified	Date & Time	Comments
CGE Spill List	4/4/23 1100	
State Hotline	4/4/23 1055	(10gal of hazardous/listed material spilled)

Exact Location of Incident (Check One):	☒ Inside ☐ Outside	**Location:**	South process	**County Where Release Occurred**
Media Released into (Check One):	☐ Air ☐ Soil ☐ Water ☐ Containment ☒ Concrete			DANE
Surface Water Affected?	☐ Yes ☒ No	**Transportation Related?**		☐ Yes ☒ No
Ground Water Affected?	☐ Yes ☒ No	**Hydrite The Carrier?**		☐ Yes ☒ No
Cause of Incident? (Check One)	☐ SOP ☐ Training ☒ Equipment ☐ Personnel	**Type of Incident? (Check One)**		☒ Spill ☐ Fire ☐ Explosion

DESCRIBE:

heat exchanger seal gave way.

Physical State	Color	Weather Condition		Local Units on Scene
☐ Solid	clear	Wind Speed:		☐ Emergency Government
☐ Semisolid		Direction:	N/A	☐ Fire Department
☒ Liquid	**Odor**	Temperature:		☐ Law Enforcement
☐ Gas	N/A	Precipitation:	☐ Yes ☐ No	☐ EMS N/A
		Direction of Spill Movement:		☐ Other

CHEMICAL RELEASE REPORT

HYDRITE CHEMICAL CO.

Actions Taken on Scene

Pump stopped, contained using dikes, supervisor notified, room blocked off.

Estimated Recovery and Disposition of Material

100% recovery, water + steam, pumped to waste fuels.

Injuries (Describe)

Ø

# of Fatalities:	Ø
# of Hospitalized:	Ø
# of Non-Hospitalized:	Ø

Property Damage (Describe)		**Loss Value**	
Carrier Damage:	$	Product Loss:	$
		Decontamination/Cleanup:	$
Public/Private Property Damage:	$	Other:	$
		TOTAL LOSS:	**$**

Packaging Information (Complete for Reportable Transportation Incidents)

Type of Packaging, including inner receptacles:		Capacity of Weight per Unit Package:		
Serial Number of Cylinders, Portable Tanks, Cargo Tanks, Tank Cars:		Number of Packages of Same Type that failed in identical manner:		
US Specification Package Identification (1A1/Y1.2/250/98USA):		Number of Packages of Same Type in Shipment:		
Other Packaging Markings:		If Reconditioned or Requalified	Registration Number of Symbol:	
Name, Address, Symbol, or Registration Number of Packaging Manufacturer:			Date of Last Test or Inspection:	
		Exemption/Approval/Competent Authority Number (if applicable):		

Complete if Transportation Related (attach Bill of Lading or Waste Manifest)

Type of Vehicle:	☐ Cargo Tank	☐ TOFC/COFC	Incident Occurred During:	
	☐ Van Truck/Trailer	☐ Aircraft	Was the spill a result of a vehicle accident/derailment?	☐ Yes ☐ No
	☐ Flat Bed Truck Trailer	☐ Barge	Estimated Speed:	
	☐ Tank Car	☐ Ship	Total Number of Lanes:	
	☐ Rail Car	☐ Other	Highway Type:	☐ Divided/Limited Access ☐ Undivided

Additional Comments: (Recommendations and Preventive actions shall be addressed in SOP AD052AF: Incident Reporting, Investigation & Corrective Action