

SAFETY DATA SHEET

Be Right[™]

Issue Date 05-Mar-2018 Revision Date 05-Mar-2018 Version 1.1 Page 1/14 **1. IDENTIFICATION** Product identifier **Product Name** N-(1-Naphthyl)ethylenediamine Dihydrochloride Other means of identification Product Code(s) 1124224 M01122 Safety data sheet number Recommended use of the chemical and restrictions on use **Recommended Use** Laboratory Use. Uses advised against None. **Restrictions on use** None. Details of the supplier of the safety data sheet **Manufacturer Address**

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word - Warning



Hazard statements

H315 - Causes skin irritation

- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

Precautionary statements

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

- P362 Take off contaminated clothing and wash before reuse
- P280 Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards Known

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance			
Chemical Name			
Chemical Family			
Formula			
CAS No			

N-(1-Naphthyl)ethylenediamine Dihydrochloride Aromatic Halogenated Amines. $C_{12}H_{14}N_2 \cdot 2CIH$ 1465-25-4

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
N-(1-Naphthyl)ethylenediamine dihydrochloride	1465-25-4	100%	-

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4. FIRST AID MEASURES

Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.	
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.	
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.	
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.	
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.	
Self-protection of the first aider	Avoid contact with skin, eyes or clothing.	
Most important symptoms and effects, both acute and delayed		
Symptoms	Burning sensation.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	Caution: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
Hazardous combustion products	Nitrogen oxides. Hydrogen chloride.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

U.S. Notice	Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.
Personal precautions, protect	tive equipment and emergency procedures
Personal precautions	Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing.
Other Information	Refer to protective measures listed in Sections 7 and 8.
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Environmental precautions			
Environmental precautions	Prevent further leakage or spillage if safe to do so.		
Methods and material for containment and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.		
Methods for cleaning up	Pick up and transfer to properly labeled containers.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Reference to other sections	See section 8 for more information. See section 13 for more information.		

7. HANDLING AND STORAGE

Precautions for sa	fe handling
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Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.
Flammability class	Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Control parameters		
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies	
Appropriate engineering controls Engineering Controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, su	ch as personal protective equipment	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
Hand Protection	Wear suitable gloves. Impervious gloves.	
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.	
General Hygiene Considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.	
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not	

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allow into any sewer, on the ground or into any body of water.

Thermal hazards

None under normal processing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Odor	powder Not determined	Solid	Color Odor threshold	Off-white No data available
Property_		Ŋ	Values	Remarks • Method
Molecular weigh	t	2	259.20 g/mole	
рН		1	No data available	
Melting point/fre	ezing point	1	188 °C / 370 °F	
Boiling point / bo	oiling range	1	No data available	
Evaporation rate		1	Not applicable	
Vapor pressure		1	Not applicable at 20 °C / 68 °F	
Vapor density (a	ir = 1)	1	Not applicable	
Specific gravity	(water = 1 / air = 1)	1	No data available	
Partition Coeffic	ient (n-octanol/wate	er) I	log K _{ow} = -0.45	Estimation through KOWWIN v1.68 part of the Estimation Programs Interface (EPI) Suite™
Soil Organic Car Coefficient	bon-Water Partition	1 r	No data available	
Autoignition tem	perature	1	No data available	
Decomposition t	emperature	1	No data available	
Dynamic viscosi	ty	1	Not applicable	
Kinematic viscos	sity	1	Not applicable	

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature	
Ethyl alcohol	Soluble	> 1000 mg/L	25 °C / 77 °F	
Dilute Hydrochloric Acid	Soluble	> 1000 mg/L	25 °C / 77 °F	
Ethyl alcohol	Slightly soluble	> 0.1 mg/L	25 °C / 77 °F	

Other Information

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Metal Corrosivity

Steel Corrosion Rate Aluminum Corrosion Rate Not applicable Not applicable

Volatile Organic Compounds (VOC) Content This Product is by Weight 100% an Individual Pure Chemical Substance

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
N-(1-Naphthyl)ethylenediamine dihydrochloride	1465-25-4	No data available	-

Explosive properties

Upper explosion limit Lower explosion limit		No data available No data available
Flammable properties		
Flash point		Not applicable
Flammability Limit in Air Upper flammability limit: Lower flammability limit:		No data available No data available
Oxidizing properties		No data available.
Bulk density		No data available
Particle Size	No information available	
Particle Size Distribution	No information available	

10. STABILITY AND REACTIVITY

Reactivity Not applicable.	
<u>Chemical stability</u> Stability	Stable under normal conditions.
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	
Possibility of Hazardous Reactions Possibility of Hazardous Reactions	
Hazardous polymerization None under normal processing.	
<u>Conditions to avoid</u> Conditions to avoid	None known based on information supplied.
Incompatible materials Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.

Hazardous Decomposition Products

Nitrogen oxides. Hydrogen chloride. Hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye contact	Causes serious eye irritation.
Skin contact	Causes skin irritation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms	Redness. May cause redness and tearing of the eyes.
Aggravated Medical Conditions Toxicologically synergistic products	Skin disorders. Eye disorders. Respiratory disorders. None known.
•	This Product is by Weight 100% an Individual Pure Chemical Substance.

distribution

Product Acute Toxicity Data	This Product is by Weight 100% an Individual Pure Chemical
	Substance
Oral Exposure Route	If available, see ingredient data below
Dermal Exposure Route	If available, see ingredient data below
Inhalation (Dust/Mist) Exposure Route	If available, see ingredient data below
Inhalation (Vapor) Exposure Route	If available, see ingredient data below
Inhalation (Gas) Exposure Route	If available, see ingredient data below

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

Acute Toxicity Estimations (ATE)

Not applicable

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Ingredient Acute Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

If available, see data below If available, see data below

Product Specific Target Organ Toxicity Single Exposure DataOral Exposure RouteIf available, see ingredient data belowDermal Exposure RouteIf available, see ingredient data belowInhalation (Dust/Mist) Exposure RouteIf available, see ingredient data belowInhalation (Vapor) Exposure RouteIf available, see ingredient data below

Inhalation (Gas) Exposure Route If available, see ingredient data below
Ingredient Specific Target Organ Toxicity Single Exposure Data
If available, see data below
If available, see data below

Oral Exposure Route	If available, see data below
Dermal Exposure Route	If available, see data below

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Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

<u>Aspiration toxicity</u> If available, see data below Kinematic viscosity

Product Skin Corrosion/Irritation Data

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> If available, see data below If available, see data below If available, see data below

Not applicable

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Skin Corrosion/Irritation Data

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
N-(1-Naphthyl)ethyle nediamine dihydrochloride (100%) CAS#: 1465-25-4	None reported	Guinea pig	None reported	None reported	Skin irritant	ERMA (New Zealands Environmental Risk Management Authority)

Product Serious Eye Damage/Eye Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Eye Damage/Eye Irritation Data

No data available

Sensitization Information

	uct is by Weight 100% an Individual Pure Chemical e. If available, see ingredient data below.
	uct is by Weight 100% an Individual Pure Chemical e. If available, see ingredient data below.
Ingredient Sensitization Data	
Skin Sensitization Exposure Route If availabl	e, see data below.
	e, see data below.
Chronic Toxicity Information	
Product Specific Target Organ Toxicity Repeat Dose Data	
	e, see ingredient data below.
Dermal Exposure Route If available	e, see ingredient data below.
	e, see ingredient data below.
Inhalation (Vapor) Exposure Route If available	e, see ingredient data below.
Inhalation (Gas) Exposure Route If availabl	e, see ingredient data below.
Ingredient Specific Target Organ Toxicity Repeat Exposure Data	
Oral Exposure Route If available	e, see data below
	e, see data below
Inhalation (Dust/Mist) Exposure Route If available	e, see data below
Inhalation (Vapor) Exposure Route If available	e, see data below
Inhalation (Gas) Exposure Route If availabl	e, see data below
Product Carcinogenicity Data	
Oral Exposure Route If available	e, see ingredient data below
	e, see ingredient data below
Inhalation (Dust/Mist) Exposure Route If available	e, see ingredient data below
	e, see ingredient data below

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Inhalation (Gas) Exposure Route

If available, see ingredient data below

Ingredient Carcinogenicity Data

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
N-(1-Naphthyl)ethylenedia	1465-25-4	-	-	-	-
mine dihydrochloride					

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route If available, see data below If available, see data below

If available, see ingredient data below

If available, see data below If available, see data below

If available, see data below

If available, see data below If available, see data below

If available, see data below

Product Germ Cell Mutagenicity invitro Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

Ingredient Germ Cell Mutagenicity invitro Data

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
N-(1-Naphthyl)ethyle nediamine dihydrochloride (100%) CAS#: 1465-25-4	Mutation in microorganisms	Salmonella typhimurium	0.8 mg/plate	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

Product Germ Cell Mutagenicity invivo Data

Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Germ Cell Mutagenicity invivo Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Product Reproductive Toxicity Data Oral Exposure Route Dermal Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

Ingredient Reproductive Toxicity Data Oral Exposure Route Inhalation (Dust/Mist) Exposure Route Inhalation (Vapor) Exposure Route Inhalation (Gas) Exposure Route

) Exposure Route

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Not considered to be harmful to aquatic life

Product Ecological Data

This Product is by Weight 100% an Individual Pure Chemical Substance

Aquatic toxicity

Fish Crustacea Algae

If available, see ingredient data below If available, see ingredient data below If available, see ingredient data below

Ingredient Ecological Data

Aquatic toxicity

Fish	If available, see ingredient data below				
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
N-(1-Naphthyl)ethyle nediamine dihydrochloride (100%) CAS#: 1465-25-4	96 hours	None reported	LC ₅₀	33673 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™
Crustacea		If av	/ailable, see i	ngredient data b	pelow
Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
	time		type	dose	sources for data
N-(1-Naphthyl)ethyle nediamine dihydrochloride (100%) CAS#: 1465-25-4	48 Hours	None reported	LC ₅₀	15251 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite [™]
Algae		If av	/ailable, see i	ngredient data b	below
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
N-(1-Naphthyl)ethyle nediamine dihydrochloride (100%) CAS#: 1465-25-4	96 hours	None reported	EC ₅₀	4461 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

Other Information

Persistence and degradability

Product Biodegradability Data

This Product is by Weight 100% an Individual Pure Chemical Substance.

Ingredient Biodegradability Data

Chemical name	Test method	Biodegradation	Exposure time	Results
N-(1-Naphthyl)ethyle nediamine dihydrochloride (100%) CAS#: 1465-25-4	OECD Test No. 303: Simulation Test - Aerobic Sewage Treatment A: Activated Sludge Units; B: Biofilms	None reported	None reported	Not readily biodegradable

Bioaccumulation

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Product Bioaccumulation Data This Product is by Weight 100% an Individual Pure Chemical Substance.

Partition Coefficient (n-octanol/water)

Ingredient Bioaccumulation Data

Mobility

Soil Organic Carbon-Water Partition Coefficient

No data available

 $\log K_{ow} = -0.45$

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
Special instructions for disposal	Mix with combustible solvent. Incinerate material at an E.P.A. approved hazardous waste facility.

14. TRANSPORT INFORMATION			
U.S. DOT	Not regulated		
TDG	Not regulated		
	Not regulated		
IMDG	Not regulated		
Note:	No special precautions necessary.		

Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

National Inventories

EN / AGHS

TSCA DSL/NDSL Complies Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories

EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances ENCS - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL - Korean Existing and Evaluated Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances TCSI - Taiwan Chemical Substances Inventory AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Special Comments

Additional information

Global Automotive Declarable Substance List (GADSL) Not applicable

NFPA and HMIS Classifications

NFPA	Health hazards - 2	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 2	Flammability - 0	Physical Hazards - 0	Personal protection - X - See section 8 for more information

Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH ACGIH NDF		Immediately Dangerous ACGIH (American Confe no data		ental Industrial Hygienists)			
Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION							
TWA	TWA (time-weighted average)		STEL	STEL (Short Term Exposure Limit)			
MAC	Maximum Allowat	ble Concentration	Ceiling	Ceiling Limit Value			
Х	Listed		Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.			
SKN* RSP+ C M	Skin designation Respiratory sensi Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant			
Prepared By		Hach Product Complian	ce Department				
Issue Date		05-Mar-2018					
Revision Date		05-Mar-2018					
Revision Note		None					

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet