

Red Epoxy - White Part

SECTION 1: IDENTIFICATION

- 1.1 Product identifier:** Red Epoxy - White Part
Other means of identification:
12001
- 1.2 Recommended use of the chemical and restrictions on use:**
Application of the substance / the preparation Curing Agent
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**
Highside Chemicals, Inc.
11114 Reichold Rd.
39503 Gulfport - Mississippi - United States
Phone: 228-896-9220, 800-359-5599
- 1.4 Emergency phone number:** ChemTel Inc. (800)255-3924, +1 (813)248-0585

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

NFPA:

Health Hazards: 3
Flammability Hazards: 0
Instability Hazards: 0
Special Hazards: Not applicable (N/A)

In Accordance With: 29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Acute Tox. 4: Acute toxicity on contact with skin, Category 4, H312
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1B: Skin corrosion, Category 1B, H314
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

In Accordance With: CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute toxicity on contact with skin, Category 4, H312
Aquatic Chronic 2: Hazardous to the aquatic environment, long-term hazard, Category 2, H411
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1B: Skin corrosion, Category 1B, H314
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

In Accordance With: WHMIS 2015:

Classification of this product has been carried out in accordance with Part 2 of Hazardous Products Regulations (SOR/2015-17)

Acute Tox. 4: Acute toxicity on contact with skin, Category 4, H312
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1B: Skin corrosion, Category 1B, H314
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317

2.2 Label elements:

NFPA:



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SECTION 2: HAZARD(S) IDENTIFICATION (continued)

2.2 Label elements:

In Accordance With: 29 CFR 1910.1200 /CLP Regulation (EC) No 1272/2008 / WHMIS 2015

Danger



Hazard statements:

Acute Tox. 4: H312 - Harmful in contact with skin.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Precautionary statements:

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352: IF ON SKIN: Wash with plenty of water.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a poison center/doctor.
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines; 3,6-diazaoctanethylenediamin

2.3 Hazards not otherwise classified (HHNOC - PHNOC):

In Accordance With: 29 CFR 1910.1200 / WHMIS 2015

Not applicable (N/A)

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

In Accordance With: 29 CFR 1910.1200

Chemical description: Mixture composed of chemical products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 68410-23-1	Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger	 75 - <100 %
CAS: 112-24-3	3,6-diazaoctanethylenediamin Acute Tox. 4: H312; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	 2.5 - <10 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

3.2 Mixture:

In Accordance With: COMMISSION REGULATION (EU) 2020/878

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 68410-23-1 EC: 614-452-7 Index: Non-applicable REACH: 01-2119972323-38-XXXX	Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines⁽¹⁾ Self-classified Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger	75 - <100 %
CAS: 112-24-3 EC: 203-950-6 Index: 612-059-00-5 REACH: Non-applicable	3,6-diazaoctanethylenediamin⁽¹⁾ ATP CLP00 Regulation 1272/2008 Acute Tox. 4: H312; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	2.5 - <10 %

⁽¹⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

In Accordance With: WHMIS 2015

In accordance with Schedule I of the Hazardous Products Regulations (SOR/2015-17), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 68410-23-1	Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger	80 - <100 %
CAS: 112-24-3	3,6-diazaoctanethylenediamin Acute Tox. 4: H312; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger	5 - <10 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not applicable (N/A)

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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

In Accordance With: 29 CFR 1910.1200

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

In Accordance With: COMMISSION REGULATION (EU) 2020/878 / WHMIS 2015

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

In Accordance With: 29 CFR 1910.1200

For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

In Accordance With: COMMISSION REGULATION (EU) 2020/878 / WHMIS 2015

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

6.4 Reference to other sections:

See sections 8 and 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities: In Accordance With: 29 CFR 1910.1200

A.- Technical measures for storage

Minimum Temp.: 41 °F

Maximum Temp.: 86 °F

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

In Accordance With: COMMISSION REGULATION (EU) 2020/878 / WHMIS 2015

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

Maximum time: 6 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters: In Accordance With: 29 CFR 1910.1200

Substances whose occupational exposure limits have to be monitored in the workplace:

There are no applicable occupational exposure limits for the substances contained in the product

Control parameters: In Accordance With: WHMIS 2015

Substances whose occupational exposure limits have to be monitored in the workplace:

ONTARIO R.R.O. 1990, REGULATION 833 (Last amendment: 449/19)- CONTROL OF EXPOSURE TO BIOLOGICAL OR CHEMICAL AGENTS:

Identification	Occupational exposure limits		
3,6-diazaoctanethylenediamin CAS: 112-24-3	TWA	0.5 ppm	3 mg/m ³
	STEL		

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.1 Control parameters: In Accordance With: COMMISSION REGULATION (EU) 2020/878

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines CAS: 68410-23-1 EC: 614-452-7	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	Non-applicable	Non-applicable	1,1 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	3,9 mg/m ³	Non-applicable

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines CAS: 68410-23-1 EC: 614-452-7	Oral	Non-applicable	Non-applicable	0,56 mg/kg	Non-applicable
	Dermal	Non-applicable	Non-applicable	0,56 mg/kg	Non-applicable
	Inhalation	Non-applicable	Non-applicable	0,97 mg/m ³	Non-applicable

PNEC:

Identification					
		STP	Fresh water	Marine water	Sediment (Fresh water)
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines CAS: 68410-23-1 EC: 614-452-7	Soil	3,14 mg/L		0,004 mg/L	
	Intermittent	82,18 mg/kg		0 mg/L	
		0,041 mg/L		411,01 mg/kg	
	Oral	Non-applicable	Sediment (Marine water)	41,1 mg/kg	

8.2 Appropriate engineering controls / Exposure Controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment (where applicable with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425). For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection In Accordance With: 29 CFR 1910.1200 / WHMIS 2015

Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR)

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.2 Appropriate engineering controls / Exposure Controls:

B.- Respiratory protection In Accordance With: COMMISSION REGULATION (EU) 2020/878

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands In Accordance With: 29 CFR 1910.1200 / WHMIS 2015

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Chloroprene, Breakthrough time: > 480 min, Thickness: 0.65 mm)	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low-density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection In Accordance With: 29 CFR 1910.1200 / WHMIS 2015

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

8.2 Appropriate engineering controls / Exposure Controls:

E.- Bodily protection **In Accordance With: 29 CFR 1910.1200 / WHMIS 2015**

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk	Replace boots at any sign of deterioration. Use foot protection in accordance with manufacturer's use limitations and OSHA standard 1910.136 (29CFR)

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks		EN 13034:2005+A1:2009 EN 168:2002 EN ISO 13982-1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk		EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 0 % weight
V.O.C. at 68 °F: 0 kg/m³ (0 g/L)

California Air Resources Board (CARB) - VOC Regulatory:

V.O.C.(weight-percent): 0 % weight
V.O.C. at 68 °F: 0 kg/m³ (0 g/L)

South Coast Air Quality Management District (AQMD) - VOC Regulatory:

V.O.C.(weight-percent): 0 % weight
V.O.C. at 68 °F: 0 kg/m³ (0 g/L)

Ozone Transport Commission (OTC) Rules - VOC Regulatory:

V.O.C.(weight-percent): 0 % weight
V.O.C. at 68 °F: 0 kg/m³ (0 g/L)

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Environmental exposure controls:

Volatile organic compounds (VOC) according to Canadian Environmental Protection Act, 1999:

Volatile organic compounds: 0 % weight
V.O.C. density at 20 °C: 0 kg/m³ (0 g/L)

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply): 0 % weight
V.O.C. density at 20 °C: 0 kg/m³ (0 g/L)
Average carbon number: Non-applicable
Average molecular weight: Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 °F / 20 °C: Liquid
Appearance: Not available
Color: Not available
Odor: Not available
Odour threshold: Not applicable (N/A) *

Volatility:

Boiling point at atmospheric pressure: Not applicable (N/A) *
Vapour pressure at 68 °F / 20 °C: Not applicable (N/A) *
Vapour pressure at 122 °F / 50 °C: Not applicable (N/A) *
Evaporation rate at 68 °F / 20 °C: Not applicable (N/A) *

Product description:

Density at 68 °F / 20 °C: 980.1 kg/m³
Relative density at 68 °F / 20 °C: 0.98
Dynamic viscosity at 68 °F / 20 °C: Not applicable (N/A) *
Kinematic viscosity at 68 °F / 20 °C: Not applicable (N/A) *
Kinematic viscosity at 104 °F / 40 °C: Not applicable (N/A) *
Concentration: Not applicable (N/A) *
pH: Not applicable (N/A) *
Vapour density at 68 °F / 20 °C: Not applicable (N/A) *
Partition coefficient n-octanol/water 68 °F / 20 °C: Not applicable (N/A) *
Solubility in water at 68 °F / 20 °C: Not applicable (N/A) *
Solubility properties: Not applicable (N/A) *
Decomposition temperature: Not applicable (N/A) *
Melting point/freezing point: Not applicable (N/A) *

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

9.1 Information on basic physical and chemical properties:

Flammability:

Flash Point:	Non-applicable
Flammability (solid, gas):	Not applicable (N/A) *
Autoignition temperature:	640°F / 338 °C
Lower flammability limit:	Not applicable (N/A) *
Upper flammability limit:	Not applicable (N/A) *

Particle characteristics:

Median equivalent diameter:	Non-applicable
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9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not applicable (N/A) *
Oxidising properties:	Not applicable (N/A) *
Corrosive to metals:	Not applicable (N/A) *
Heat of combustion:	Not applicable (N/A) *
Aerosols-total percentage (by mass) of flammable components:	Not applicable (N/A) *

Other safety characteristics:

Surface tension at 68 °F / 20 °C	Not applicable (N/A) *
Refraction index:	Not applicable (N/A) *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
IARC: Not applicable (N/A)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not applicable (N/A)

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

11.1 Information on toxicological effects:

Specific toxicology information on the substances:

In Accordance With: 29 CFR 1910.1200 / WHMIS 2015 / COMMISSION REGULATION (EU) 2020/878

Identification	Acute toxicity		Genus
3,6-diazaoctanethylenediamin CAS: 112-24-3 EC: 203-950-6	LD50 oral	2100 mg/kg	Rat
	LD50 dermal	1100 mg/kg	Rat
	LC50 inhalation	Not applicable (N/A)	

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

Other information

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity (aquatic and terrestrial, where available):

In Accordance With: 29 CFR 1910.1200 / WHMIS 2015 / COMMISSION REGULATION (EU) 2020/878

Product-specific aquatic toxicity:

Acute toxicity		Species	Genus
LC50	7.47 mg/L (96 h)	Non-applicable	Fish
EC50	5.43 mg/L (48 h)	Non-applicable	Crustacean

Substance-specific aquatic toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines CAS: 68410-23-1 EC: 614-452-7	LC50	7.1 mg/L (96 h)	Danio rerio	Fish
	EC50	5.2 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4.1 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
3,6-diazaoctanethylenediamin CAS: 112-24-3 EC: 203-950-6	LC50	495 mg/L (96 h)	Pimephales promelas	Fish
	EC50	31.1 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not applicable (N/A)		

12.2 Persistence and degradability:

In Accordance With: 29 CFR 1910.1200 / WHMIS 2015 / COMMISSION REGULATION (EU) 2020/878

Substance-specific information:

Identification	Degradability		Biodegradability	
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines CAS: 68410-23-1 EC: 614-452-7	BOD5	Non-applicable	Concentration	1 mg/L
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	15 %

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SECTION 12: ECOLOGICAL INFORMATION (continued)

12.3 Bioaccumulative potential:

In Accordance With: 29 CFR 1910.1200 / WHMIS 2015 / COMMISSION REGULATION (EU) 2020/878

Substance-specific information:

Identification	Bioaccumulation potential	
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines CAS: 68410-23-1 EC: 614-452-7	BCF	492
	Pow Log	3.7
	Potential	High

12.4 Mobility in soil:

In Accordance With: 29 CFR 1910.1200 / WHMIS 2015 / COMMISSION REGULATION (EU) 2020/878

Identification	Absorption/desorption		Volatility	
3,6-diazaoctanethylenediamin CAS: 112-24-3 EC: 203-950-6	Koc	Not applicable (N/A)	Henry	Not applicable (N/A)
	Conclusion	Not applicable (N/A)	Dry soil	Not applicable (N/A)
	Surface tension	4.307E-2 N/m (77 °F)(25 °C)	Moist soil	Not applicable (N/A)

12.5 Results of PBT and vPvB assessment:

Non-applicable / Product fails to meet PBT/vPvB criteria

12.6 Other adverse effects / Endocrine disrupting properties:

Not described / Endocrine-disrupting properties: The product fails to meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods: In Accordance With: 29 CFR 1910.1200

The characteristic of corrosivity per RCRA could apply to the unused product if it becomes a waste material. The EPA hazardous waste number D002 could apply.

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Code	Description	Waste class (Regulation (EU) No 1357/2014)
20 01 27*	paint, inks, adhesives and resins containing hazardous substances	Dangerous

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

13.1 Disposal methods: In Accordance With: COMMISSION REGULATION (EU) 2020/878

Type of waste (Regulation (EU) No 1357/2014):

HP14 Ecotoxic, HP13 Sensitising, HP8 Corrosive

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

In Accordance With: WHMIS 2015

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See epigraph 6.2.

Regulations related to waste management:

Legislation related to waste management:

Canadian Environmental Protection Act, 1999

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods AND With regard to ADR 2021 and RID 2021
Transportation of Dangerous Goods Regulations including Amendment SOR/2017-100

- | | |
|--|----------------|
| 14.1 UN number or ID number: | Not Regulated |
| 14.2 UN proper shipping name: | Non-applicable |
| 14.3 Transport hazard class(es): | Non-applicable |
| Labels: | Non-applicable |
| 14.4 Packing group: | Non-applicable |
| 14.5 Environmental hazards: | Non-applicable |
| 14.6 Special precautions for user | |
| Special regulations: | Non-applicable |
| Tunnel restriction code: | Non-applicable |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | Non-applicable |
| 14.7 Maritime transport in bulk according to IMO instruments: | Non-applicable |

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SECTION 14: TRANSPORT INFORMATION (continued)

Transport of dangerous goods by sea:

With regard to IMDG 40-20:

- 14.1 UN number or ID number:** UN3082
14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines)
-   **14.3 Transport hazard class(es):** 9
Labels: 9
14.4 Packing group: III
14.5 Marine pollutant: Yes
14.6 Special precautions for user
 Special regulations: 335, 969, 274
 EmS Codes: F-A, S-F
 Physico-Chemical properties: see section 9
 Limited quantities: 5 L
 Segregation group: Non-applicable
14.7 Maritime transport in bulk according to IMO instruments: Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:

- 14.1 UN number or ID number:** Not Regulated
14.2 UN proper shipping name: Non-applicable
14.3 Transport hazard class(es): Non-applicable
Labels: Non-applicable
14.4 Packing group: Non-applicable
14.5 Environmental hazards: Non-applicable
14.6 Special precautions for user
 Physico-Chemical properties: see section 9
14.7 Maritime transport in bulk according to IMO instruments: Non-applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

In Accordance With: 29 CFR 1910.1200

- CALIFORNIA LABOR CODE - The Hazardous Substances List: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Not applicable (N/A)
- CANADA-Domestic Substances List (DSL): *Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines (68410-23-1); 3,6-diazaoctanethylenediamin (112-24-3)*

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SECTION 15: REGULATORY INFORMATION (continued)

15.1 Safety, health and environmental regulations specific for the product in question:

In Accordance With: 29 CFR 1910.1200

- CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Hazardous Air Pollutants (Clean Air Act): Not applicable (N/A)
- Massachusetts RTK - Substance List: *3,6-diazaoctanethylenediamin (112-24-3)*
- Minnesota - Hazardous substances ERTK: Not applicable (N/A)
- New Jersey Worker and Community Right-to-Know Act: *3,6-diazaoctanethylenediamin (112-24-3)*
- New York RTK - Substance list: *3,6-diazaoctanethylenediamin (112-24-3)*
- NTP (National Toxicology Program): Not applicable (N/A)
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Not applicable (N/A)
- Pennsylvania Worker and Community Right-to-Know Law: *3,6-diazaoctanethylenediamin (112-24-3)*
- Rhode Island - Hazardous substances RTK: Not applicable (N/A)
- The Toxic Substances Control Act (TSCA) : *Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines (68410-23-1); 3,6-diazaoctanethylenediamin (112-24-3)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Not applicable (N/A)

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

Safety, health and environmental regulations/legislation specific for the substance or mixture:

In Accordance With: COMMISSION REGULATION (EU) 2020/878

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS	200	500

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

Safety, health and environmental regulations specific for the product in question: In Accordance With: WHMIS 2015

- Domestic Substances List (DSL): *Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines (68410-23-1); 3,6-diazaoctanethylenediamin (112-24-3)*
- Non-Domestic Substances List (NDSL): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Canadian Environmental Protection Act, 1999

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SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

This safety data sheet has been designed in accordance with Part 4 and Schedule I of the Hazardous Products Regulations (SOR/2015-17)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H411: Toxic to aquatic life with long lasting effects.

H317: May cause an allergic skin reaction.

H312: Harmful in contact with skin.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

In Accordance With: 29 CFR 1910.1200 / WHMIS 2015:

Acute Tox. 4: H312 - Harmful in contact with skin.

Eye Dam. 1: H318 - Causes serious eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

In Accordance With: CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H312 - Harmful in contact with skin.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

Classification procedure:

Skin Corr. 1B: Calculation method

Eye Dam. 1: Calculation method

Aquatic Chronic 2: Calculation method

Skin Sens. 1A: Calculation method

Acute Tox. 4: Calculation method

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

<http://whmis.org/>

Red Epoxy - White Part**SECTION 16: OTHER INFORMATION (continued)****Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50/LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

Date of compilation: 5/11/2023



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END OF SAFETY DATA SHEET