

This is a kit that contains the following components:

FLEXOLITH 1:1 PART A

FLEXOLITH 1:1 PART B



Version: 5.0 Revision Date: 09/06/2023

SAFETY DATA SHEET

1. Identification

Product identifier: FLEXOLITH 1:1 PART A Product Code: TD4332104NC

Recommended use and restriction on use

Recommended use: Sealant Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Euclid Admixture Canada Inc. 2835 Grand-Allee Saint Hubert QC J4T 2R4 CA

Contact person: Telephone: Emergency telephone number:

EH&S Department (450)465-2233 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health H	lazards
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Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Skin sensitizer	Category 1

Unknown toxicity - Health

Acute toxicity, oral	0.57 %
Acute toxicity, dermal	0.57 %
Acute toxicity, inhalation, vapor	100 %
Acute toxicity, inhalation, dust	100 %
or mist	

Environmental Hazards

Acute hazards to the aquatic	Category 2
environment	
Chronic hazards to the aquatic	Category 2
environment	

Unknown toxicity - Environment

Acute hazards to the aquatic	0.57 %
environment	
Chronic hazards to the aquatic	0.57 %
environment	



Label Elements

Hazard Symbol: Signal Word: Warning Hazard Statement: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. Precautionary **Statements Prevention:** Wash thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. **Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. Collect spillage. **Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Hazard(s) not otherwise None. classified (HNOC):

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*	
Bisphenol A Polyglycidyl Ether Resin	25068-38-6	50 - <100%	
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.			

4. First-aid measures

Description of necessary first-aid measures

Inhalation:

Move to fresh air.



Skin Contact:	Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.		
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.		
Ingestion:	Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.		
Personal Protection for First- aid Responders:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
Most important symptoms/effe	cts, acute and delayed		
Symptoms:	Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.		
Hazards:	No data available.		
Indication of immediate medical attention and special treatment needed			
Treatment:	Symptoms may be delayed.		
5. Fire-fighting measures			
General Fire Hazards:	No unusual fire or explosion hazards noted.		
Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for fire-fighters			
Special fire-fighting procedures:	No data available.		
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
6. Accidental release measur	AS		

6. Accidental release measures



Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Accidental release measures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Methods and material for containment and cleaning up:	Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.
7. Handling and storage	
Handling	
Technical measures (e.g. Local and general ventilation):	Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.
Safe handling advice:	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.Wash hands thoroughly after handling. Avoid contact with eyes. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.
Contact avoidance measures:	No data available.
Hygiene measures:	Observe good industrial hygiene practices. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

	work clothing should not be allowed out of the workplace.
Storage	
Safe storage conditions:	Store away from incompatible materials. Store in original tightly closed container.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits. None of the components have assigned exposure limits.



Chemical name	Туре	Exposure Limit Valu	ies	Source
Epichlorohydrin	TWA	0.1 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007)
Epichlorohydrin	TWA	0.5 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Epichlorohydrin	TWA	2 ppm 7.6	mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Wear safety glasses with side shields (or goggles).	
Skin Protection Hand Protection:	Additional Information: Use suitable protective gloves if risk of skin contact.	
Skin and Body Protection:	Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.	
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.	
Hygiene measures:	Observe good industrial hygiene practices. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.	

9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Mild
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	No data available.
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No



Upper/lower limit on flammability or explosive limits

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Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.13
Solubility(ies)	
Solubility in water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure		
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.	
Eye contact:	Causes serious eye irritation.	
Ingestion:	May be harmful if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics		
Inhalation:	No data available.	



Eye contact:	No data available.
Ingestion:	No data available.
Information on toxicological effe	ects
Acute toxicity (list all possible	e routes of exposure)
Oral Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	LD 50 (Rat): > 2,000 mg/kg
Dermal Product:	Not classified for acute toxicity based on available data.
Inhalation Product:	
Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	LC 50: > 20 mg/l LC 50: > 5 mg/l
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	in vivo (Rabbit): Moderately irritating , 24 h
Serious Eye Damage/Eye Irritation Product: No data available.	
Respiratory or Skin Sensitizatio Product:	n No data available.
Carcinogenicity Product:	No data available.



IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified

- US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified
- US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended: No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	LC 50 (Oncorhynchus mykiss, 96 h): 1.5 mg/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.



Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	EC 50 (Daphnia magna, 48 h): 1.1 mg/l experimental result Experimental result, Key study
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	NOAEL (Daphnia magna): 0.3 mg/l experimental result Experimental result, Key study
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	82 % Detected in water. Experimental result, Key study
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available.
Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	Bioconcentration Factor (BCF): 31 Aquatic sediment QSAR, Key study
Partition Coefficient n-octanol / w Product:	vater (log Kow) No data available.
Specified substance(s): Bisphenol A Polyglycidyl Ether Resin	Log Kow: 2.64 - 3.78 25 °C Yes Experimental result, Key study
Mobility in soil:	No data available.
Other adverse effects:	Toxic to aquatic life with long lasting effects.



13. Disposal considerations

Disposal methods:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.

14. Transport information

TDG:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin), 9, PG III

CFR / DOT:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin), 9, PG III, MARINE POLLUTANT

IMDG:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin), 9, PG III, MARINE POLLUTANT

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Epichlorohydrin	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Skin Corrosion or Irritation Serious eye damage or eye irritation



Respiratory or Skin Sensitization

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

Chemical Identity % by weight

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Chemical IdentityReportable quantityEpichlorohydrinIbs

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING

Cancer and Reproductive Harm - www.P65Warnings.ca.gov

International regulations

Montreal protocol Not applicable

Stockholm convention Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 73 g/l

Regulatory VOC (less water and	:	0 g/l
exempt solvent)		
VOC Method 310	:	0.00 %



Inventory Status: Australia AICS:	All components in this product are listed on or exempt from the Inventory.
Canada DSL Inventory List:	All components in this product are listed on or exempt from the Inventory.
EC Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	All components in this product are listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	All components in this product are listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.



16.Other information, including date of preparation or last revision

Revision Date:	09/06/2023
Version #:	5.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.



Version: 5.0 Revision Date: 09/06/2023

SAFETY DATA SHEET

1. Identification

Product identifier: FLEXOLITH 1:1 PART B Product Code: TD4332104NC

Recommended use and restriction on use

Recommended use: Curative Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Euclid Admixture Canada Inc. 2835 Grand-Allee Saint Hubert QC J4T 2R4 CA

Contact person: Telephone: Emergency telephone number:

EH&S Department (450)465-2233 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Oral)	Category 4
Acute toxicity (Inhalation - dust and mist)	Category 4
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1
Toxic to reproduction	Category 2

Unknown toxicity - Health

Acute toxicity, oral	18.11 %
Acute toxicity, dermal	65.47 %
Acute toxicity, inhalation, vapor	99.94 %
Acute toxicity, inhalation, dust	99.74 %
or mist	

Environmental Hazards

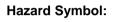
Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 1

Unknown toxicity - Environment



Acute hazards to the aquatic	16.61 %
environment	
Chronic hazards to the aquatic	16.41 %
environment	

Label Elements



Signal Word:	Danger
Hazard Statement:	Harmful if swallowed or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.
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/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. Use personal protective equipment as required.
Response:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Collect spillage.
Storage:	Store locked up.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.



Hazard(s) not otherwise None. classified (HNOC):

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
4-Nonylphenol	84852-15-3	25 - <50%
Poly(oxypropylene) diamine	9046-10-0	10 - <20%
Diethylenetriamine	111-40-0	10 - <20%
Tris(dimethylaminomethyl)phenol	90-72-2	5 - <10%
Bisphenol A	80-05-7	5 - <10%
Stoddard solvent (Mineral Spirits)	8052-41-3	0.1 - <1%
Polypropylene glycol	25322-69-4	0 - <1%
Tetraethylene pentamine * All concentrations are percent by weig	112-57-2 ht unless ingredient	0.1 - <1% is a gas. Gas concentrations are in percent by volu

4. First-aid measures

Description of necessary first-aid measures

Inhalation:	Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.
Skin Contact:	Call a physician or poison control center immediately. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.
Ingestion:	Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.
Personal Protection for First- aid Responders:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Most important symptoms/effec	ts, acute and delayed
Symptoms:	Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing.
Hazards:	No data available.
Indication of immediate medical	attention and special treatment needed
Treatment:	Symptoms may be delayed.



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5. Fire-fighting measures			
General Fire Hazards:	No unusual fire or explosion hazards noted.		
Suitable (and unsuitable) extingu	uishing media		
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.		
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.		
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for fire-fighters			
Special fire-fighting procedures:	No data available.		
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.		
6. Accidental release measure	S		
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.		
Accidental release measures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.		
Methods and material for containment and cleaning up:	Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.		
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.		
7. Handling and storage			
Handling			
Technical measures (e.g. Local	Observe good industrial hygiene practices. Observe occupational exposure		

Technical measures (e.g. Local	Observe good industrial hygiene practices. Observe occupational exposure
and general ventilation):	limits and minimize the risk of inhalation of vapors and mist. Mechanical
	ventilation or local exhaust ventilation may be required.



Safe handling advice:	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.Do not taste or swallow. Wash hands thoroughly after handling. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes, on skin, on clothing. Avoid contact with eyes, skin, and clothing.
Contact avoidance measures:	No data available.
Hygiene measures:	Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. Wash hands after handling. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.
Storage	
Safe storage conditions:	Store locked up.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values	Source
Diethylenetriamine	TWA	1 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
Stoddard solvent (Mineral Spirits)	PEL	500 ppm 2,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)
	TWA	100 ppm	US. ACGIH Threshold Limit Values, as amended (2008)

Chemical name	Туре	Exposure Limit Values	Source
Diethylenetriamine	TWA	1 ppm	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007)
Diethylenetriamine	TWA	1 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Diethylenetriamine	TWA	1 ppm 4.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)



Chemical name	Туре	Exposure Lim	it Values	Source
Diethylenetriamine	TWA	1 ppm		Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007)
Diethylenetriamine	TWA	1 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Diethylenetriamine	TWA	1 ppm	4.2 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)
Stoddard solvent (Mineral Spirits)	STEL		580 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007)
	TWA		290 mg/m3	Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)
Stoddard solvent (Mineral Spirits)	TWA	100 ppm	525 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.
Skin Protection Hand Protection:	Additional Information: Use suitable protective gloves if risk of skin contact.
Skin and Body Protection:	Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Do not eat, drink or smoke when using the product. Wash hands after handling. Do not get in eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.



9. Physical and chemical properties

Appearance		
Physical state:	liquid	
Form:	liquid	
Color:	Pale yellow	
Odor:	Mild pungent	
Odor threshold:	No data available.	
pH:	No data available.	
Melting point/freezing point:	No data available.	
Initial boiling point and boiling range:	No data available.	
Flash Point:	> 93 °C > 200 °F(Setaflash Closed Cup)	
Evaporation rate:	Slower than Ether	
Flammability (solid, gas):	No	
Upper/lower limit on flammability or explosive limits		
Flammability limit - upper (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper:	No data available.	
Explosive limit - lower:	No data available.	
Vapor pressure:	No data available.	
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.	
Relative density:	0.995	
Solubility(ies)		
Solubility in water:	Practically Insoluble	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/water):	No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	No data available.	
Viscosity:	No data available.	

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Avoid contact with acids.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.



11. Toxicological information

Information on likely routes of exposure Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. Skin Contact: May be harmful in contact with skin. Causes severe skin burns. May cause an allergic skin reaction. Eye contact: Causes serious eye damage. Ingestion: Harmful if swallowed. Symptoms related to the physical, chemical and toxicological characteristics Inhalation: No data available. Skin Contact: No data available.

Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 1,480.3 mg/kg
Dermal Product:	ATEmix: 2,083.49 mg/kg
Inhalation Product:	ATEmix: 2.73 mg/l

Repeated dose toxicity Product:

No data available.

Skin Corrosion/Irritation Product: No data available.

Specified substance(s):



4-Nonylphenol	in vivo (Rabbit): Irritating , 1 - 8 d	
Poly(oxypropylene) diamine	in vivo (Rabbit): Corrosive , 48 - 72 h	
Tris(dimethylaminomet hyl)phenol	in vivo (Rabbit): Corrosive	
Polypropylene glycol	in vivo (Rabbit): Not irritant , 24 - 72 h	
Serious Eye Damage/Eye Irritatio Product: Specified substance(s):	on No data available.	
4-Nonylphenol	Rabbit, 24 - 72 h: Corrosive	
Poly(oxypropylene) diamine	Rabbit, 24 h: Corrosive	
Polypropylene glycol	Rabbit, 1 - 48 h: Moderately irritating	
Respiratory or Skin Sensitization Product:	n No data available.	
Carcinogenicity Product:	No data available.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified		
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended: No carcinogenic components identified		
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity Product:	Suspected of damaging fertility or the unborn child.	
Specific Target Organ Toxicity - Single Exposure Product: No data available.		



Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): 4-Nonylphenol	EC 50 (Pimephales promelas, 96 h): 96 μg/l Experimental result, Key study
Poly(oxypropylene) diamine	LC 50 (Cyprinodon variegatus, 96 h): 772.14 mg/l Experimental result, Key study
Diethylenetriamine	LC 50 (Poecilia reticulata, 96 h): 0.43 g/l Experimental result, Key study
Tris(dimethylaminomethyl)phenol	LC 50 (Cyprinus carpio, 96 h): 175 mg/l Experimental result, Weight of Evidence study
Bisphenol A	LC 50 (Pimephales promelas, 96 h): 4.6 mg/l Experimental result, Key study
Polypropylene glycol	LC 50 (Danio rerio, 96 h): > 100 mg/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.
	No data available. EC 50 (Daphnia magna, 48 h): 84.4 µg/l experimental result Experimental result, Key study
Product: Specified substance(s):	EC 50 (Daphnia magna, 48 h): 84.4 µg/l experimental result Experimental
Product: Specified substance(s): 4-Nonylphenol Poly(oxypropylene)	EC 50 (Daphnia magna, 48 h): 84.4 μg/l experimental result Experimental result, Key study EC 50 (Daphnia magna, 48 h): 80 mg/l experimental result Experimental
Product: Specified substance(s): 4-Nonylphenol Poly(oxypropylene) diamine	EC 50 (Daphnia magna, 48 h): 84.4 μg/l experimental result Experimental result, Key study EC 50 (Daphnia magna, 48 h): 80 mg/l experimental result Experimental result, Key study EC 50 (Daphnia magna, 48 h): 16 mg/l experimental result Experimental



Spirits)

Polypropylene glycol	EC 50 (Daphnia magna, 48 h): 105.8 mg/l experimental result Experimental
	result, Key study

Chronic hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): 4-Nonylphenol	NOAEL (Oncorhynchus mykiss): 0.006 mg/l experimental result Experimental result, Key study
Diethylenetriamine	NOAEL (Gasterosteus aculeatus): > 10 mg/l experimental result Experimental result, Key study
Bisphenol A	NOAEL (Pimephales promelas): 640 µg/l experimental result Experimental result, Key study
Aquatic Invertebrates Product:	No data available.
Specified substance(s): 4-Nonylphenol	NOAEL (Daphnia magna): 0.024 mg/l experimental result Experimental result, Key study
Diethylenetriamine	NOAEL (Daphnia magna): 5.6 mg/l experimental result Experimental result, Key study
Bisphenol A	NOAEL (Daphnia magna): 1 mg/l experimental result Experimental result, Supporting study
Polypropylene glycol	NOAEL (Daphnia magna): >= 10 mg/l experimental result Experimental result, Key study
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
Specified substance(s): 4-Nonylphenol	48.2 % (35 d) Detected in water. Experimental result, Key study
Diethylenetriamine	87 % Detected in water. Experimental result, Key study
Tris(dimethylaminomethyl))phenol	4 % (28 d) Detected in water. Experimental result, Key study
Bisphenol A	89 % (28 d) Detected in water. Experimental result, Key study



Polypropylene glycol	86.6 % Detected in water. Experimental result, Key study	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BC Product:	CF) No data available.	
Specified substance(s): 4-Nonylphenol	Pimephales promelas, Bioconcentration Factor (BCF): 740 Aquatic sediment Experimental result, Key study	
Diethylenetriamine	Cyprinus carpio, Bioconcentration Factor (BCF): > 2.8 - 6.3 Aquatic sediment Experimental result, Key study	
Bisphenol A	Cyprinus carpio, Bioconcentration Factor (BCF): 20 - 67 Aquatic sediment Experimental result, Key study	
Partition Coefficient n-octanol / v Product:	vater (log Kow) No data available.	
Specified substance(s): Bisphenol A	Log Kow: 3.32 Log Kow: 3.32	
Polypropylene glycol	Log Kow: 0.3 - 0.9 23 °C Yes Experimental result, Supporting study Log Kow: -0.68 - 0.01 25 °C No Estimated by calculation, Key study	
Tetraethylene pentamine	Log Kow: 1.503	
Mobility in soil:	No data available.	
Other adverse effects:	Very toxic to aquatic life with long lasting effects.	
13. Disposal considerations		
Disposal methods:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.	
Contaminated Packaging:	No data available.	

14. Transport information

TDG:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol), 9, PG III

CFR / DOT:



UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol), 9, PG III, MARINE POLLUTANT

IMDG:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Nonylphenol), 9, PG III, MARINE POLLUTANT

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Chemical Identity

Reportable quantity

4-Nonylphenol

De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification only.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	Reportable quantity
Ethylene diamine	5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Acute toxicity (any route or exposure) Skin Corrosion or Irritation Serious eye damage or eye irritation Respiratory or Skin Sensitization Reproductive toxicity

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Not Regulated.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

Chemical Identity	<u>% by weight</u>
4-Nonylphenol	1.0%
Bisphenol A	1.0%



Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Chemical Identity Ethylene diamine Reportable quantity Ibs

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING Reproductive Harm - www.P65Warnings.ca.gov

International regulations

Montreal protocol Not applicable

Stockholm convention Not applicable

Rotterdam convention

Not applicable

Kyoto protocol Not applicable

VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 73 g/l

Regulatory VOC (less water and	:	145 g/l
exempt solvent)		
VOC Method 310	:	14.54 %



Inventory Status: Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from the Inventory.
EC Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	All components in this product are listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Mexico INSQ:	One or more components in this product are not listed on or exempt from the Inventory.
Ontario Inventory:	One or more components in this



	product are not listed on or exempt from the Inventory.
Taiwan Chemical Substance Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Australia Industrial Chem. Act (AIIC):	One or more components in this product are not listed on or exempt from the Inventory.
Switzerland New Subs Notified/Registered:	One or more components in this product are not listed on or exempt from the Inventory.
Thailand DIW Existing Chemical Inv. List:	One or more components in this product are not listed on or exempt from the Inventory.
Vietnam National Chemical Inventory:	One or more components in this product are not listed on or exempt from the Inventory.

16.Other information, including date of preparation or last revision

Revision Date:	09/06/2023
Version #:	5.0
Further Information:	No data available.
Disclaimer:	For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.