

Date of compilation: 7/18/2025 Version: 1

SECT	TON 1: IDENTIFICATION					
1.1	Product identifier: High Friction Surface Binding Resin					
	Other means of identification:					
	Non-applicable					
1.2	Recommended use of the che	nical and restrictions on use:				
	Relevant uses (Professional users): Resin for making adhesives Relevant uses (Industrial user): Resin for making adhesives Uses advised against: All uses not specified in this section or in section 7.3					
1.3	Uses advised against: All uses not specified in this section or in section 7.3 Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party: Copps Industries Inc 10500 N Commerce St 53092 Mequon - United States Phone: 2622381700 orders@coppsindustries.com www.coppsindustries.com					
1.4	Emergency phone number: 1	300-255-3924 Contract Number MIS5199399				

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200 Carc. 2: Carcinogenicity, Category 2, H351 Eye Irrit. 2A: Eye irritation, Category 2A, H319 Flam. Liq. 4: Flammable liquids, Category 4, H227 Skin Irrit. 2: Skin irritation, Category 2, H315 Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

29 CFR 1910.1200:

Warning



Hazard statements:

Carc. 2: H351 - Suspected of causing cancer. Eye Irrit. 2A: H319 - Causes serious eye irritation. Flam. Liq. 4: H227 - Combustible liquid. Skin Irrit. 2: H315 - Causes skin irritation. Skin Sens. 1: H317 - May cause an allergic skin reaction.

Precautionary statements:

P201: Obtain special instructions before use.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

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

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

P308+P313: IF exposed or concerned: Get medical advice/attention.

P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.

Substances that contribute to the classification

reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight \leq 700); Benzene, 1,4-dimethyl-, manuf. of, by-products from, C11-22-distn. residues



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SECTION 2: HAZARD(S) IDENTIFICATION (continued)

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Mixture composed of additives and epoxy polymers

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	Concentration	
CAS:	25068-38-6		reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight \leq 700)	75 - <100 %	
CAS:	147952-37-2		Benzene, 1,4-dimethyl-, manuf. of, by-products from, C11-22-distn. residues	2.5 - <10 %	
To ob	o 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:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms 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:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)



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SECTION 5: FIRE-FIGHTING MEASURES (continued)

Unsuitable extinguishing media:

Water jet

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. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) **Additional provisions:**

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.

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:

For accidental releases in excess of reportables 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.

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

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



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SECTION 7: HANDLING AND STORAGE (continued)

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:

A.- Specific storage requirements

Minimum Temp.:60 °FMaximum Temp.:80 °FMaximum time:12 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:

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

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

8.2 Appropriate engineering controls:

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

As a preventative measure it is recommended to use basic Personal Protection Equipment. 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

Pictogram	PPE	Remarks
Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A)	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)

C.- Specific protection for the hands

Pic	togram	PPE	Remarks
Mand	atory hand betection	NON-disposable chemical protective gloves	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.

D.- Eye and face protection

	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)
E	Bodily protection		



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

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

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:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

	CETION 9. FITISICAL AND CHEMICAL PROFERTIES				
9.1	Information on basic physical and chemical properties:				
	For complete information see the product datasheet.				
	Appearance:				
	Physical state at 68 °F:	Liquid			
	Appearance:	Transparent			
	Color:	Wheat			
	Odor:	Sweet			
	Odour threshold:	Non-applicable *			
	Volatility:				
	Boiling point at atmospheric pressure:	>302 °F			
	Vapour pressure at 68 °F:	Non-applicable *			
	Vapour pressure at 122 °F:	<300000 Pa (300 kPa)			
	Evaporation rate at 68 °F:	Non-applicable *			
	Product description:				
	Density at 68 °F:	1118.3 kg/m³			
	Relative density at 68 °F:	1.14			
	Dynamic viscosity at 68 °F:	Non-applicable *			
	Kinematic viscosity at 68 °F:	Non-applicable *			
	Kinematic viscosity at 104 °F:	Non-applicable *			
	Concentration:	Non-applicable *			
	pH:	Non-applicable *			
	Vapour density at 68 ^o F:	Non-applicable *			
	Partition coefficient n-octanol/water 68 °F:	Non-applicable *			
	Solubility in water at 68 °F:	Non-applicable *			
	*Non-applicable due to the nature of the product, not providing	information property of its hazards.			



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SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIES	G (continued)
	Solubility properties:	Non-applicable *
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	>199 °F
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	1089 °F
	Lower flammability limit:	Non-applicable *
	Upper flammability limit:	Non-applicable *
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable *
9.2	Other information:	
	Information with regard to physical hazard class	ses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *
	Other safety characteristics:	
	Surface tension at 68 °F:	Non-applicable *
	Refraction index:	Non-applicable *
	*Non-applicable due to the nature of the product, not providing inf	ormation 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 from Safety Data Sheet.

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	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

-				
Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	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 (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:



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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

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- Indestion (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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

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: 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.

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

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

IARC: Naphthalene (2B)

- 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. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Non-applicable

SECTION 12: ECOLOGICAL INFORMATION

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

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.



Date of compilation: 7/18/2025 Version: 1 SECTION 12: ECOLOGICAL INFORMATION (continued) 12.1 Ecotoxicity (aquatic and terrestrial, where available): Acute toxicity: Identification Concentration Species Genus reaction product: bisphenol-A-(epichlorhydrin), epoxy resin LC50 >1 - 10 mg/L (96 h) Fish (number average molecular weight \leq 700) >1 - 10 mg/L (48 h) CAS: 25068-38-6 EC50 Crustacean FC50 >1 - 10 mg/L (72 h) Algae Benzene, 1,4-dimethyl-, manuf. of, by-products from, C11-22-LC50 >0.1 - 1 mg/L (96 h) Fish distn. residues >0.1 - 1 mg/L (48 h) Crustacean CAS: 147952-37-2 >0.1 - 1 mg/L (72 h) Algae **Chronic toxicity:** Concentration Genus Identification Species reaction product: bisphenol-A-(epichlorhydrin), epoxy resin NOFC Non-applicable (number average molecular weight ≤ 700) CAS: 25068-38-6 NOFC 0.3 mg/L Daphnia magna Crustacean 12.2 Persistence and degradability: Substance-specific information: Degradability Biodegradability Identification reaction product: bisphenol-A-(epichlorhydrin), epoxy resin BOD5 Non-applicable Concentration 100 mg/L (number average molecular weight \leq 700) Non-applicable 28 days COD Period CAS: 25068-38-6

BOD5/COD

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)	BCF	4
CAS: 25068-38-6	Pow Log	2.8
	Potential	Low

Non-applicable

6 Biodegradable

12.4 Mobility in soil:

Non-applicable

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

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.

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ECTION 14: TRANS	PORT	INFORMATION	
Transport of d	angero	us goods by land:	
With regard to	49 CFR	on the Transport of Dangerous Go	ods:
	14.1	UN number:	UN3082
	> 14.2	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight \leq 700))
	14.3	Transport hazard class(es):	9
		Labels:	9
		Packing group, if applicable:	III
		Marine pollutant:	Yes
	14.6		user needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
			n transporting aboard a vessel, the requirements of this subchapter ot apply to non-bulk packagings transported by motor vehicles, rail
	14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Non-applicable
Transport of d	angero	us goods by sea:	
With regard to I	MDG 41	-22:	
	14.1	UN number:	UN3082
	14.2 >	UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight \leq 700))
	14.3	Transport hazard class(es):	9
		Labels:	9
	14.4	Packing group, if applicable:	III
	14.5	Marine pollutant:	Yes
	14.6		user needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
		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
		Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Non-applicable
Transport of d	angero	us goods by air:	
		AO 2025:	



 SECTION 14: TRANSPORT INFORMATION (continued) III. 2 UN proper shipping name: III. 2 UN proper shipping name: UN3062 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichiorhydrin), epoxy resin (number average molecular weight ≤ 700) III. 2 Transport hazard class(es): 9 III. 2 Packing group, if applicable: III. 2 Section product is sphenol-A-(epichiorhydrin), epoxy resin (number average molecular weight ≤ 700) III. 2 Section product is the aware of, or needs to comply with, in connection with thansport or conveyance either within or outside their premises Physico-Chemical properties: see section 9 III. 7 Transport in bulk (according Non-applicable to Annex II of MARPOL 73/78 and the IBC Code): SECTION 15: REGULATORY INFORMATION SECTION 15: REGULATORY INFORMATION Safety, health and environmental regulations specific for the product in question: CALIFORNIA LABOR CODE - The Hazardous Substances List: Non-applicable California Proposition 65 (the Safe Drinking Water and Toxic Enforcement At cot 1986) - Cancer: Non-applicable California (20548-38-6) CAMADA-Domestic Substances List (NDSL): Berzene, J, 4-dimethy4, manuf. of by-products from, CI1-22-distn. residues (1747823-37-2) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable Hassachusetts RTK - Substance List: Non-applicable Hassachusetts RTK - Substance List: Non-applicable Heaserical Product Rightot	SECTION 15: REC 15.1 Safety, heal - CALIFORNI/ - California Pr - California Pr - California Pr - CANADA-Do molecular we - New Jersey - New York R - NTP (Natior - OSHA Speci - Pennsylvani - Protective A (number ave) - Rhode Islan - SB-258 Clea - The Toxic S molecular we (147952-37-2 - Toxic chemi Specific pro It is recomme assessments. disposing of t	•	INFORMATION (continued)	
 14.2 UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight ≤ 700)) 14.3 Transport hazard class(es): 9 Labels: 9 14.4 Packing group, if applicable: III 14.5 Marine pollutant: Yes 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises Physico-Chemical properties: see section 9 14.7 Transport in bulk (according Non-applicable to Annex II of MARPOL 73/78 and the IBC Code); SECTION 15: REGULATORY INFORMATION Stafety, health and environmental regulations specific for the product in question: California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Enrich applicable California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable CALIFORNIA LABOR CODE - The Hazardous Substances List: Non-applicable CALIFORNIA LABOR CODE - The Hazardous Substances List: Non-applicable California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable CAMADA-Domestic Substances List (NDSL): Benzene, 1,4-dimethyl-, manuf. of, by-products from, CI1-22-distn. residues (187923-27-3) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable Hazaschusetts TRT - Substance List: Non-applicable Horse A-Hazardous substances CERCES, ERPCS, & TEELs: reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight 5 700) (2506-38-6)	 15.1 Safety, heal CALIFORNI/ California Piharm: Non-ag California Pi CANADA-Do molecular weiter CANADA-Not (147952-37-2) Comprehens Hazardous // Massachusee Minnesota - New Jersey New York R NTP (Nation OSHA Speci Pennsylvani Protective A (number aveilet) Rhode Islant SB-258 Cleat The Toxic S molecular weiter (147952-37-2) Toxic chemiter Specific pro It is recommeted assessments. disposing of the second second	∧ 14.1		
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	SECTION 16: OTH			

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

Texts of the legislative phrases mentioned in section 2:



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SECTION 16: OTHER INFORMATION (continued) H315: Causes skin irritation. H317: May cause an allergic skin reaction. H351: Suspected of causing cancer. H227: Combustible liquid. H319: Causes serious eye irritation. Advice related to training: According to 29 CFR 1910. 1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label. Principal bibliographical sources: Occupational Safety & Health Administration (OSHA). Abbreviations and acronyms: 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: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon IARC: International Agency for Research on Cancer NFPA: Health Hazards: 3 Flammability Hazards: 2 Instability Hazards: 0 Special Hazards: Non-applicable Date of compilation: 7/18/2025

Manufacturer Disclaimer: The information contained in this safety date sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).



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SECTION 1: IDENTIFICATION 1.1 Product identifier: High Friction Surface Binding Hardener Other means of identification: Non-applicable 1.2 Recommended use of the chemical and restrictions on use: Relevant uses (Professional users): Hardener for adhesives Relevant uses (Industrial user): Hardener for adhesives Uses advised against: All uses not specified in this section or in section 7.3 Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible 1.3 party: **Copps Industries Inc** 10500 N Commerce St 53092 Mequon - United States Phone: 2622381700 orders@coppsindustries.com www.coppsindustries.com 1.4 **Emergency phone number:** 1-800-255-3924 Contract Number MIS5199399

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200 Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302 Acute Tox. 4: Acute toxicity on contact with skin, Category 4, H312 Eye Dam. 1: Serious eye damage, Category 1, H318 Flam. Liq. 4: Flammable liquids, Category 4, H227 Repr. 1B: Reproductive toxicity, Category 1B, H360 Skin Corr. 1B: Skin corrosion, Category 1B, H314 Skin Sens. 1: Sensitisation, skin, Category 1, H317

2.2 Label elements:

29 CFR 1910.1200:

Danger



Hazard statements:

Acute Tox. 4: H302 - Harmful if swallowed. Acute Tox. 4: H312 - Harmful in contact with skin. Eye Dam. 1: H318 - Causes serious eye damage. Flam. Liq. 4: H227 - Combustible liquid. Repr. 1B: H360 - May damage fertility or the unborn child. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.

P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.



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SECTION 2: HAZARD(S) IDENTIFICATION (continued)

Substances that contribute to the classification

4-nonylphenol, branched; Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia; Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-; 2,2´-iminodiethylamine **Additional labeling:**



WARNING

This product can expose you to chemicals including Bisphenol A, which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Formulated polyamines

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:

Ide	entification	Chemical name	Concentration
CAS:	84852-15-3	4-nonylphenol, branched	50 - <75 %
CAS:	9046-10-0	Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	10 - <25 %
CAS:	9046-10-0	Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	2.5 - <10 %
CAS:	111-40-0	2,2´-iminodiethylamine	2.5 - <10 %
CAS:	90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	2.5 - <10 %
CAS:	80-05-7	Bisphenol A	2.5 - <10 %

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

Other information:

Identification		M-factor
4-nonylphenol, branched	Acute	10
CAS: 84852-15-3	Chronic	10
Bisphenol A	Acute	1
CAS: 80-05-7	Chronic	10

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 is not classified as hazardous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.



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SECTION 4: FIRST-AID MEASURES (continued)

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 administrate 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:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

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. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) **Additional provisions:**

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.

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:

For accidental releases in excess of reportables 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.



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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.

Spillages in water or sea:

Small spillages:

Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.

Large spillages:

If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

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

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. 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:

A.- Specific storage requirements

Minimum Temp.:60 °FMaximum Temp.:80 °FMaximum time:12 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:

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

US. ACGIH Threshold Limit Values (2022):

Identification	Occupa	ational exposure lir	nits
2,2´-iminodiethylamine	TLV-TWA	1 ppm	
CAS: 111-40-0	TLV-STEL		



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Protection Equipment (storage the manufacturer. For more in information on clothing perfor application, to provide the bes assessment to determine the with 29 CFR 1910.132. B Respiratory protection Pictogram	es, such as personal protecti is recommended to use bas e, use, cleaning, maintenan iformation see subsection 7. mance must be combined v st protection to the worker.	sic Personal Protection Equipment. For more information on Personal nee, class of protection,) consult the information leaflet provided by 7.1. All information contained herein is a recommendation, the with professional judgment, and a clear understanding of the clothin All chemical protective clothing use must be based on a hazard icals and other hazards. Conduct hazard assessments in accordance Remarks Replace when there is a taste or smell of the contaminant inside the face mask. I
Appropriate engineering cont A Individual protection measure As a preventative measure it i Protection Equipment (storage the manufacturer. For more in information on clothing perfor application, to provide the bes assessment to determine the with 29 CFR 1910.132. B Respiratory protection Pictogram Pictogram Filter mask for Mandatory respiratory tract protection	es, such as personal protecti is recommended to use bas e, use, cleaning, maintenan iformation see subsection 7. mance must be combined v st protection to the worker. risks for exposure to chemic	tive equipment sic Personal Protection Equipment. For more information on Personal nce, class of protection,) consult the information leaflet provided by 7.1. All information contained herein is a recommendation, the with professional judgment, and a clear understanding of the clothing All chemical protective clothing use must be based on a hazard icals and other hazards. Conduct hazard assessments in accordance Remarks Replace when there is a taste or smell of the contaminant inside the face mask. I
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 A Individual protection measure As a preventative measure it i Protection Equipment (storage the manufacturer. For more in information on clothing perfor application, to provide the bes assessment to determine the with 29 CFR 1910.132. B Respiratory protection 	es, such as personal protecti is recommended to use bas e, use, cleaning, maintenan iformation see subsection 7. mance must be combined v st protection to the worker. risks for exposure to chemic	sic Personal Protection Equipment. For more information on Personal nee, class of protection,) consult the information leaflet provided by 7.1. All information contained herein is a recommendation, the with professional judgment, and a clear understanding of the clothin All chemical protective clothing use must be based on a hazard icals and other hazards. Conduct hazard assessments in accordance Remarks Replace when there is a taste or smell of the contaminant inside the face mask. I
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Protection Equipment (storage the manufacturer. For more in information on clothing perfor application, to provide the bes assessment to determine the with 29 CFR 1910.132. B Respiratory protection Pictogram Filter mask for Mandatory respiratory tract protection	e, use, cleaning, maintenan formation see subsection 7. mance must be combined v st protection to the worker. risks for exposure to chemic PPE	Ace, class of protection,) consult the information leaflet provided by 7.1. All information contained herein is a recommendation, the with professional judgment, and a clear understanding of the clothin All chemical protective clothing use must be based on a hazard icals and other hazards. Conduct hazard assessments in accordance Remarks Replace when there is a taste or smell of the contaminant inside the face mask. I
Pictogram Pictogram Filter mask for Mandatory respiratory tract protection		Replace when there is a taste or smell of the contaminant inside the face mask. I
Mandatory respiratory tract protection	or gases and vapours (Filter type:	
C Specific protection for the han	К)	equipment. Use respirator in accordance with manufacturer 's use limitations and OSHA standard 1910.134 (29CFR)
c specific protection for the han	nds	
Pictogram	PPE	Remarks
	otective gloves (Material: Nitrile, time: > 480 min, Thickness: 0.11 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)
		sistance of the glove material can not be calculated in advance with
total reliability and has therefore	ore to be checked prior to t	the application.
D Eye and face protection		
Pictogram	PPE	Remarks

	protection	
F -	Bodily protection	

Mandatory face

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)

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.



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SECTION	8: EXPOSURE CONTR	OLS/PERSONAL PROTECTION (continued)	
ſ	Emergency measure	Standards	Emergency measure	Standards
	Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Evewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

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: Liquid Appearance: Non-applicable * Color: Wheat Odor: Aminic Odour threshold: Non-applicable * Volatility: >300 °F Boiling point at atmospheric pressure: Vapour pressure at 68 °F: Non-applicable * Vapour pressure at 122 °F: 147.15 Pa (0.15 kPa) Evaporation rate at 68 °F: Non-applicable * **Product description:** Density at 68 °F: Non-applicable * 0.97 Relative density at 68 °F: Dynamic viscosity at 68 °F: Non-applicable * Non-applicable * Kinematic viscosity at 68 °F: Kinematic viscosity at 104 °F: Non-applicable * Concentration: Non-applicable * pH: Non-applicable * Vapour density at 68 °F: Non-applicable * Partition coefficient n-octanol/water 68 °F: Non-applicable * Solubility in water at 68 °F: Non-applicable * Solubility properties: Non-applicable 3 Decomposition temperature: Non-applicable * Melting point/freezing point: Non-applicable * Flammability: Flash Point: >199 °F Flammability (solid, gas): Non-applicable * 676 °F Autoignition temperature: Lower flammability limit: Non-applicable * Upper flammability limit: Non-applicable * **Particle characteristics:** Median equivalent diameter: Non-applicable * *Non-applicable due to the nature of the product, not providing information property of its hazards.



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SECT	ECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)			
9.2	Other information:			
	Information with regard to physical hazard cla	sses:		
	Explosive properties:	Non-applicable *		
	Oxidising properties:	Non-applicable *		
	Corrosive to metals:	Non-applicable *		
	Heat of combustion:	Non-applicable *		
	Aerosols-total percentage (by mass) of flammable components:	Non-applicable *		
	Other safety characteristics:			
	Surface tension at 68 °F:	Non-applicable *		
	Refraction index:	Non-applicable *		
	*Non-applicable due to the nature of the product, not providing i	nformation 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 from Safety Data Sheet.

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	Risk of combustion	Avoid direct impact	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.

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: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- 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):



ION 11: TOXICOLOGICAL INFORMATION (continued)			
 Acute toxicity : Based on available data, the classification cr as hazardous for inhalation. For more information see section 3 Corrosivity/Irritability: Prolonged inhalation of the product is tract 			
C- Contact with the skin and the eyes (acute effect):			
 Contact with the skin: Above all, skin contact may occur as f For more information on the secondary effects see section 2. Contact with the eyes: Produces serious eye damage after or D- CMR effects (carcinogenicity, mutagenicity and toxicity to repro- 	ontact.	be destroyed, resulti	ng in burr
 Carcinogenicity: Based on available data, the classification of as hazardous for the effects mentioned. For more information s IARC: Non-applicable Mutagenicity: Based on available data, the classification crite hazardous for this effect. For more information see section 3. Reproductive toxicity: May damage fertility or the unborn ch E- Sensitizing effects: 	ere section 3. eria are not met, as it does n		
 Respiratory: Based on available data, the classification criter hazardous with sensitising effects. For more information see se Skin: Prolonged contact with the skin can result in episodes F- Specific target organ toxicity (STOT) - single exposure: 	ction 3. of allergic contact dermatitis		
Based on available data, the classification criteria are not met. inhalation. For more information see section 3.G- Specific target organ toxicity (STOT)-repeated exposure:	nowever, it contains substar	ices classified as haz	aruous to
 Specific target organ toxicity (STOT)-repeated exposure: Bas it does not contain substances classified as hazardous for this e Skin: Based on available data, the classification criteria are r hazardous for this effect. For more information see section 3. H- Aspiration hazard: 	effect. For more information	see section 3.	
Based on available data, the classification criteria are not met, a this effect. For more information see section 3. Other information:	as it does not contain substa	nces classified as ha	zardous fo
Non-applicable			
Non-applicable Specific toxicology information on the substances:			
	Acute toxic	ity	Genus
Specific toxicology information on the substances: Identification Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with	Acute toxic	ity 500 mg/kg	Genus
Specific toxicology information on the substances: Identification			Genus

2,4,6-tris(dimethylaminomethyl)phenol

Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2aminomethylethoxy)-

2,2'-iminodiethylamine

CAS: 111-40-0

Bisphenol A

CAS: 80-05-7

CAS: 9046-10-0

CAS: 90-72-2

LD50 oral

LD50 oral

LD50 oral

LD50 oral

LD50 dermal LC50 inhalation

LD50 dermal

LC50 inhalation

LD50 dermal

LC50 inhalation

LD50 dermal

LC50 inhalation

500 mg/kg

1100 mg/kg

5100 mg/kg

3000 mg/kg

2885.3 mg/kg

2979.7 mg/kg

1200 mg/kg

Rat

Rabbit

Rat

Rabbit

Rat



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SECTION 11: TOXICOLOGICAL INFORMATION (continu	ued)		
Identification	Ac	ute toxicity	Genus
4-nonylphenol, branched CAS: 84852-15-3	LD50 oral	1412 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		

SECTION 12: ECOLOGICAL INFORMATION

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

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.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

Identification		Concentration	Species	Genus
4-nonylphenol, branched		0.05 mg/L (96 h)	Acipenser oxyrhynchus	Fish
CAS: 84852-15-3	EC50	0.14 mg/L (48 h)	Daphnia magna	Crustacean
		1.3 mg/L (72 h)	Scenedesmus subspicatus	Algae
Reaction products of di-, tri- and tetra-propoxylated propane-1,2- diol with ammonia	LC50	15 mg/L (96 h)	N/A	Fish
CAS: 9046-10-0	EC50	80 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2- aminomethylethoxy)-		772.14 mg/L (96 h)	N/A	Fish
CAS: 9046-10-0	EC50	80 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	15 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
2,4,6-tris(dimethylaminomethyl)phenol	LC50	345 mg/L (96 h)	QSAR	Fish
CAS: 90-72-2	EC50	Non-applicable		
	EC50	Non-applicable		
Bisphenol A	LC50	4.6 mg/L (96 h)	Pimephales promelas	Fish
CAS: 80-05-7	EC50	3.8 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

Chronic toxicity:

Identification		Concentration	Species	Genus
4-nonylphenol, branched	NOEC	0.006 mg/L	Oncorhynchus mykiss	Fish
CAS: 84852-15-3	NOEC	0.024 mg/L	Daphnia magna	Crustacean
Bisphenol A	NOEC	>0.01 - 0.1 mg/L		Fish
CAS: 80-05-7	NOEC	>0.01 - 0.1 mg/L		Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability		
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)- w-(2-aminomethylethoxy)-	BOD5	Non-applicable	Concentration	17.6 mg/L	
CAS: 9046-10-0	COD	Non-applicable	Period	28 days	
	BOD5/COD	Non-applicable	% Biodegradable	0 %	
Bisphenol A	BOD5	Non-applicable	Concentration	100 mg/L	
CAS: 80-05-7	COD	Non-applicable	Period	14 days	
	BOD5/COD	Non-applicable	% Biodegradable	0 %	

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential			
4-nonylphenol, branched	BCF	231		
CAS: 84852-15-3	Pow Log	5.4		
	Potential	High		



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Identification	Identification Bioaccumulation potential	
Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	BCF	
CAS: 9046-10-0	Pow Log	1.34
	Potential	
2,4,6-tris(dimethylaminomethyl)phenol	BCF	3
CAS: 90-72-2	Pow Log	0.77
	Potential	Low
Bisphenol A	BCF	67
CAS: 80-05-7	Pow Log	3.32
	Potential	Moderate

12.4 Mobility in soil:

Identification	Absorp	otion/desorption	Volatility		
4-nonylphenol, branched	Кос	22000	Henry	11.02 Pa·m ³ /mol	
CAS: 84852-15-3	Conclusion	Immobile	Dry soil	Yes	
	Surface tension	Non-applicable	Moist soil	Yes	
2,2 '-iminodiethylamine	Кос	Non-applicable	Henry	Non-applicable	
CAS: 111-40-0	Conclusion	Non-applicable	Dry soil	Non-applicable	
	Surface tension	4.164E-2 N/m (77 ºF)	Moist soil	Non-applicable	
2,4,6-tris(dimethylaminomethyl)phenol	Кос	15130	Henry	9.312E-12 Pa·m ³ /mo	
CAS: 90-72-2	Conclusion	Immobile	Dry soil	Non-applicable	
	Surface tension	Non-applicable	Moist soil	Non-applicable	
Bisphenol A	Кос	796	Henry	1.013E-6 Pa·m ³ /mol	
CAS: 80-05-7	Conclusion	Low	Dry soil	Non-applicable	
	Surface tension	3.76E-3 N/m (687.97 °F)	Moist soil	Non-applicable	

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

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

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

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.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:



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TION 14: TRANSPO	ORT I	NFORMATION (continued)	
	14.1	UN number:	UN2735
		UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4-nonylphenol, branched)
×	14.3	Transport hazard class(es):	8
		Labels:	8
:	14.4	Packing group, if applicable:	II
		Marine pollutant:	Yes
:	14.6		iser needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
		Physico-Chemical properties:	see section 9
		Limited quantities:	1 L
			n transporting aboard a vessel, the requirements of this subchapt ot apply to non-bulk packagings transported by motor vehicles, ra
:	14.7	Transport in bulk (according to Annex II of MARPOL	Non-applicable
		73/78 and the IBC Code):	
Transport of dan	ngerou	us goods by sea:	
With regard to IMI	DG 41-	-22:	
:	14.1	UN number:	UN2735
		UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4-nonylphenol, branched)
	14.3	Transport hazard class(es):	8
		Labels:	8
:	14.4	Packing group, if applicable:	II
		Marine pollutant:	Yes
:	14.6		user needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
		Special regulations:	274
		EmS Codes:	F-A, S-B
		Physico-Chemical properties:	see section 9
		Limited quantities:	1 L
		Segregation group:	SGG18
:	14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Non-applicable
Transport of dan	ngerou		
With regard to IAT	TA/ICA	O 2025:	
^ ^		UN number:	UN2735
		UN proper shipping name:	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4-nonylphenol, branched)
· · ·	14.3	Transport hazard class(es): Labels:	8
:	14.4	Packing group, if applicable:	II
		Marine pollutant:	Yes
		Special precautions which a u	iser needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
		Physico-Chemical properties:	see section 9
:	14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Non-applicable

SECTION 15: REGULATORY INFORMATION



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SECT	ON 15: REGULATORY INFORMATION (continued)	
15.1	Safety, health and environmental regulations specific for the product in question:	
	CALIFORNIA LABOR CODE - The Hazardous Substances List: <i>4-nonylphenol, branched (84852-15-3)</i> ; <i>2,2^{-/}-iminodiethylamin</i> (<i>111-40-0</i>); <i>2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)</i> California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive	1e
	narm: <i>Bisphenol A (80-05-7)</i> California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable	
	• CANADA-Domestic Substances List (DSL): 4-nony/phenol, branched (84852-15-3); Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0);	
	Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- (9046-10-0) ; 2,2´-iminodiethylamine (111-40-0) ; 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) ; Bisphenol A (80-05-7)	
	 CANADA-Non-Domestic Substances List (NDSL): Non-applicable Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: Non-applicable Hazardous Air Pollutants (Clean Air Act): Non-applicable 	
	· Massachusetts RTK - Substance List: 4-nonylphenol, branched (84852-15-3); 2,2 ´-iminodiethylamine (111-40-0); Bisphenc (80-05-7)	/ A
	 Minnesota - Hazardous substances ERTK: 2,2 ´-iminodiethylamine (111-40-0) New Jersey Worker and Community Right-to-Know Act: 2,2 ´-iminodiethylamine (111-40-0); Bisphenol A (80-05-7) New York RTK - Substance list: 2,2 ´-iminodiethylamine (111-40-0); Bisphenol A (80-05-7) NTP (National Toxicology Program): Non-applicable 	
	OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable	
	• Pennsylvania Worker and Community Right-to-Know Law: 2,2 '-iminodiethylamine (111-40-0) • Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: 4-nonylphenol, branched (84852-15-3); Reaction products of tri- and tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0);	di-,
	Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- (9046-10-0); 2,2´-iminodiethylamine (111-40-0); 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2); Bisphenol A (80-05-7)	
	 Rhode Island - Hazardous substances RTK: Non-applicable SB-258 Cleaning Product Right to Know Act : <i>4-nonylphenol, branched (84852-15-3)</i>; <i>Bisphenol A (80-05-7)</i> The Toxic Substances Control Act (TSCA) : <i>4-nonylphenol, branched (84852-15-3)</i>; <i>Reaction products of di-, tri- and</i> 	
	tetra-propoxylated propane-1,2-diol with ammonia (9046-10-0); Poly[oxy(methyl-1,2-ethanediyl)],a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)- (9046-10-0); 2,2´-iminodiethylamine	
	(111-40-0) ; 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) ; Bisphenol A (80-05-7) • Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): 4-nonylphenol, branched (84852-15-3) ; Bisphenol A (80-05-7)	
	Specific provisions in terms of protecting people or the environment:	
	It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product. Other legislation:	

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

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

Texts of the legislative phrases mentioned in section 2:

H314: Causes severe skin burns and eye damage.

- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.
- H360: May damage fertility or the unborn child.
- H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H227: Combustible liquid.

Advice related to training:

According to 29 CFR 1910. 1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).



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SECTION 16: OTHER INFORMATION (continued)

Abbreviations and acronyms:

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: Lethal Concentration 50 EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient Koc: Partition coefficient of organic carbon IARC: International Agency for Research on Cancer

NFPA:

Health Hazards: 3 Flammability Hazards: 2 Instability Hazards: 0 Special Hazards: Non-applicable

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Manufacturer Disclaimer: The information contained in this safety date sheet ("SDS") is based on sources, technical knowledge and current legislation. Furthermore, is based on data believed to be accurate; thus, the company does not assume any liability for its accuracy. The information provided herein cannot be considered a guarantee of the properties of this product and the same is simply a description of the security requirements. The use, occupational methodology and/or conditions for users of this product are not within our awareness or control. It is ultimately the responsibility of the user(s) to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information of this SDS only refers to this product, which should not be used for purposes other than those specified. Finally, the manner in which this product is used and whether there is any infringement of patents is the sole responsibility of the user(s).