SECTION 1. IDENTIFICATION				
Product identifier used on t	^{he label} [:] 301-14 [®] , Part A (Bas	e)		
Other means of identificatio	n : 301-14-0, 301-14-1, 301-14-	1.5, 301-14-2, 301-14-3, 301-14-4, 301-14-5		
Recommended use of the c	hemical and restrictions on us	e		
Chemical family	: Epoxy Resin Recommended restrictions: I : Mixture	Professional Use only.		
Name, address, and telephone number of the supplier:		Name, address, and telephone number of the manufacturer:		
Warren Environmental ® 37 Pine Street Middleboro, MA, USA 02346	and Coatings LLC	Refer to supplier		
Supplier's Telephone # 24 Hr. Emergency Tel #	: (508) 947 8539 : VelocityEHS: (800) 255-3924 (Outside U.S., please call c	4 (Within Continental U.S.); VelocityEHS: +1 (813)248-0585 collect).		

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Most important hazards Causes skin and eye irritation. May cause an allergic skin reaction. Occupational exposure to the substance or mixture may cause adverse effects. Toxic to aquatic life with long lasting effects.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Hazard classification:

Skin irritation - Category 2 Eye damage/irritation - Category 2 Skin sensitization - Category 1

Label elements

Hazard pictogram(s)



WARNING!

Hazard statement(s)

Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

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Precautionary statement(s)

Avoid breathing mist or vapor. Wash hands and face thoroughly afterhandling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves and eye/face protection.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Toxic fumes may be released during a fire. May polymerize when heated or on contact with incompatible materials. Mild respiratory irritant. May cause gastrointestinal irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Epoxy resin	Epoxy Phenol Resin	Proprietary	Proprietary
Titanium dioxide	Anatase Titanic acid anhydride	13463-67-7	Proprietary
Air release	Not available.	Proprietary	Proprietary

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid meas	sures
Ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If symptoms develop, seek medical attention.
Inhalation	 If inhaled, move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. If irritation or symptoms develop, seek medical attention.
Skin contact	 IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
Eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If eye irritation persists: get medical advice/attention.
Most important symptoms a	and effects, both acute and delayed
	 Causes skin irritation. Contact may cause redness, swelling and a painful sensation. Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. Mild respiratory irritant. May cause coughing and breathing difficulties.
	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Indication of any immediate	e medical attention and special treatment needed
	: Immediate medical attention is required. Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

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Suitable extinguishing med	lia
	: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam.
Unsuitable extinguishing m	edia
	: Do not use a solid water stream as it may scatter and spread fire.
Special hazards arising from	the substance or mixture / Conditions of flammability
Flammability classification (Not considered flammable. May polymerize when heated or on contact with incompatible materials. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. OSHA 29 CFR 1910.106)
	: Not classified as flammable.
Hazardous combustion prod	lucts
	: Carbon oxides; Phenols; Aldehydes; Acids; Other unidentified organic compounds.
Special protective equipmen	t and precautions for firefighters
Protective equipment for fir	
	: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire-fighting proced	
	: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.
SECTION 6. ACCIDENTAL	L RELEASE MEASURES
Personal precautions, protect	ctive equipment and emergency procedures
Environmental precautions	 All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8. Do not allow material to contaminate ground water system. If necessary, dike well chosed of the prill to group and find a desire access to area until to group and the protective desires.
	ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
Methods and material for co	ntainment and cleaning up
	: Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Pick up and transfer to properly labeled containers. Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.
Special spill response proce	dures
	 If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

	:	Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted. Provide adequate ventilation. Wear protective equipment during handling. Wear protective gloves and eye/face protection. Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Keep away from extreme heat and direct flame. Keep away from incompatibles. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Conditions for safe storage	:	Store in cool/well-ventilated place. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible
		only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials : Oxidizing agents; Acids; Bases; Amines

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH TI	<u>_V</u>	<u>OSHA I</u>	PEL
	TWA	<u>STEL</u>	PEL	<u>STEL</u>
Epoxy resin	N/Av	N/Av	N/Av	N/Av
Titanium dioxide	10 mg/m³	N/Av	15 mg/m³ (total dust)	N/A∨
Air release	200 mg/m³ (as total hydrocarbon vapour)	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

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	Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.
Respiratory protection	: If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.
Skin protection	: Wear protective gloves. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye / face protection	: Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.
Other protective equipment	t : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.
General hygiene considera	tions
	: Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

Avoid breatning mist or vapor. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Contaminated work clothing must not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	• Off White Liquid
	: Off White Liquid
Odour	: Odorless
Odour threshold	: Not available.
рН	: Not available.
Melting Point/Freezing point	: Not available.
Initial boiling point and boiling	ng range
	: Not available.
Flash point	:>325F
Flashpoint (Method)	: Not available.
Evaporation rate (BuAe = 1) :	<1
Flammability (solid, gas)	: Not applicable.
Lower flammable limit (% by	vol.)
	: Not available.
Upper flammable limit (% by	vol.)
	: Not available.
Oxidizing properties	: None known.

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Explosive properties	: Not explosive
Vapour pressure	: <1 (mm Hg @ 25C)
Vapour density	: >1%
Relative density / Specific g	ravity
	: 1.19 @ 25C
Solubility in water	: Not Soluble
Other solubility(ies)	: Not available.
Partition coefficient: n-octai	nol/water or Coefficient of water/oil distribution
	: Not available.
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Volatiles (% by weight)	: <1%
Volatile organic Compounds	s (VOC's)
	: Not available.
Absolute pressure of contai	ner
	: Not applicable.
Flame projection length	Not applicable.
Other physical/chemical co	nments
	: No additional information.
SECTION 10. STABILITY	AND REACTIVITY
Reactivity	: Not normally reactive.
Chemical stability	: Stable under normal conditions.

Possibility of hazardous reactions		
	: May polymerize when heated or on contact with incompatible materials.	
Conditions to avoid	: Direct sources of heat. Do not use in areas without adequate ventilation. Avoid contact with incompatible materials.	
Incompatible materials	: Oxidizing agents; Acids; Bases; Amines	
Hazardous decomposition	products	
	None known, refer to bazardous combustion products in Section 5	

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation	:	YES
Routes of entry skin & eye	:	YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

:YES

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

	:	Mild respiratory irritant. Symptoms may include coughing and sneezing.
Sign and symptoms ingestion		
	:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sign and symptoms skin	:	Causes skin irritation. Contact may cause redness, swelling and a painful sensation. May be absorbed through the skin. Bonds skin instantly.
Sign and symptoms eyes	:	Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis. Permanent eye damage including blindness could result.
Potential Chronic Health Effects		
	:	Chronic skin contact with low concentrations may cause dermatitis.

Mutagenicity	: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity Reproductive effects & Ter	 Not classifiable as a human carcinogen, based on currently available data. Contains Titanium dioxide. Titanium dioxide is classified as possibly carcinogenic by IARC (Group 2B). However, the Titanium dioxide used in this product is in a non-respirable form and under normal conditions of use, Titanium dioxide cannot become airbourne. The carcinogenic effects of Titanium dioxide are therefore not applicable to this product. ratogenicity
	: This product is not expected to cause reproductive or developmental effects.
Sensitization to material	 This product is not expected to cause reproductive of developmental effects. This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Skin sensitization - Category 1. May cause an allergic skin reaction. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema. Contains: Epoxy resin.
Specific target organ effec	Not expected to be a respiratory sensitizer. ts : The substance or mixture is not classified as specific target organ toxicant, single exposure.
	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Medical conditions aggrav	ated by overexposure
	: Pre-existing skin, eye, respiratory and central nervous system disorders.
Synergistic materials	: No information available.
Toxicological data	There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

	LC50(4hr)	LD50		
Chemical name	inh, rat	<u>(Oral, rat)</u>	(Rabbit, dermal)	
Epoxy resin	N/Av	> 2000 mg/kg	> 2000 mg/kg	
Titanium dioxide	> 6.82 mg/kg (dust) (No mortality)	> 25 000 mg/kg	> 10 000 mg/kg	
Air release	>6.03 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg	

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

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Ecotoxicity
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: Toxic to aquatic life with long lasting effects. No data is available on the product itself. The product contains the following substances which are hazardous for the environment: Epoxy resin.

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

la sue d'au (a	040 N	Toxicity to Fish					
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor			
Epoxy resin	Proprietary	1.5 mg/L	N/Av	None.			
Titanium dioxide	13463-67-7	> 100 mg/L (Japanese ricefish)	N/Av	None.			
Air release	Proprietary	45 mg/L (Fathead minnow)	N/Av	None.			

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Ingredients	CAS No	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Epoxy resin	Proprietary	1.7 mg/L (Daphnia magna)	0.3 mg/L	None.		
Titanium dioxide	13463-67-7	> 100 mg/L (Daphnia magna)	N/Av	None.		
Air release	Proprietary	N/Av	N/Av	N/Av		

<u>Ingredients</u>	CAS No	lgae			
		EC50 / 96h or 72h	NOEC /	96h or 72h	M Factor
Epoxy resin	Proprietary	9.4 mg/L/72hr (Green algae)	N	/Av	None.
Titanium dioxide	13463-67-7	> 100 mg/L/72hr (Green algae)	N	/Av	None.
Air release	Proprietary	N/Av	N	/Av	N/Av
	Contains the	ilable on the product itself. following chemicals which	are not read	dily biodegradat	ole:
Bioaccumulation potential	Epoxy resin. : No data is ava information.	ilable on the product itself.	See the foll	owing data for in	ngredient
Bioaccumulation potential <u>Components</u>	: No data is ava information.	ilable on the product itself. efficient n-octanol/water			
Bioaccumulation potential Components Epoxy resin	: No data is ava information.	•			
Components	: No data is ava information.	efficient n-octanol/water		Bioconcentra	
Components Epoxy resin Air release Mobility in soil	: No data is ava information. <u>Partition co</u> : The product its	efficient n-octanol/water 3.242		Bioconcentra 31	ngredient tion factor (BCF)
Components Epoxy resin Air release	: No data is ava information. <u>Partition co</u> : The product its	efficient n-octanol/water 3.242 5.1-8.8		Bioconcentra 31	

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal	: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
Methods of Disposal	: Dispose in accordance with all applicable federal, state, provincial and local regulations.
RCRA	: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	not regulated	none	\bigotimes
49CFR/DOT Additional information	Not regulated f	or transport by ground, unless intended for marine transp	ort.		
TDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)	9		
TDG Additional information	This material m Provision 99.	hay be shipped as an exempted marine pollutant in accord	dance with TDG	Section 1.4	5.1 and Special
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)	9	III	
IMDG Additional information	30 kg gross ma	d as Limited Quantity when transported in containers no l iss. ntally hazardous substance mark must appear on packag	0		0
ICAO/IATA	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)	9	III	
ICAO/IATA Additional information	Refer to the ap prior to shippin	propriate Packing Instruction, prior to shipping this materi g this material.	al. Review all St	ate and Op	erator Variations,

Special precautions for user : Appropriate advice on safety must accompany the package.
 Environmental hazards
 This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS #	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Epoxy resin	Proprietary	Yes	None.	None.	No	N/Ap	
Titanium dioxide	13463-67-7	Yes	None.	None.	No	N/Ap	
Air release	Proprietary	Yes	N/Ap	N/Av	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Skin irritation; Eye Damage; Skin sensitization . Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
	CA3 #	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Epoxy resin	Proprietary	No	N/Ap	No	No	No	No	No	No
Titanium dioxide	13463-67-7	Yes	Cancer (airborne, unbound particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes
Air release	Proprietary	No	N/Ap	No	No	No	No	No	No

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Epoxy resin	Proprietary	Polymer	Present	Present	Present	Present	Present	May be used as a single component chemical under an appropriate group standard.
Titanium dioxide	13463-67-7	236-675-5	Present	Present	Present	Present	Present	May be usec as a single component chemical under an appropriate group standard.
Air release	Proprietary	Present	Present	Present	Present	Present	Present	No
		·		1 1		1 1		available.

SECTION 16. OTHER INFORMATION

Legend	: ACGIH: American Conference of Governmental Industrial Hygienists
	AICS: Australian Inventory of Chemical Substances
	ATE: Acute Toxicity Estimate
	CA: California
	CAS: Chemical Abstract Services
	CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
	CFR: Code of Federal Regulations
	CSA: Canadian Standards Association
	DOT: Department of Transportation
	ECHA: European Chemicals Agency
	ECOTOX: U.S. EPA Ecotoxicology Database
	EINECS: European Inventory of Existing Commercial chemical Substances
	ENCS: Existing and New Chemical Substances
	EPA: Environmental Protection Agency
	HSDB: Hazardous Substances Data Bank

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References :	 IARC: International Agency for Research on Cancer IBC: Intermediate Bulk Container IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods IOC: Inventory of Chemicals IUCLID: International Uniform Chemical Information Database KECI: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List LC: Lethal Concentration LD: Lethal Dose MA: Massachusetts MN: Minnesota NVAy: Not Applicable NVAy: Not Applicable NVAy: Not Applicable NIOSH: National Institute of Occupational Safety and Health NJ: New Jersey NOEC: No observable effect concentration DTP: National Toxicology Program OECD: Organisation for Economic Co-operation and Development OSHA: Occupational Safety and Health Administration PA: Pennsylvania PEL: Permissible exposure limit PICCS: Philippine Inventory of Chemicals and Chemical Substances RCRA: Resource Conservation and Recovery Act RI: Rhode Island RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act SDS: Safety Data Sheet / Material Safety Data Sheet STEL: Short Term Exposure Limit TOG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System 1. ACGH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2. ECHA - European Chemical Agency 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs). 4. Safety Data Sheets from manufacturer.
	(Chempendium, HSDB and RTECs).
Preparation Date (mm/dd/yyyy)	

: 07/20/2020

Other special considerations for handling

: Provide adequate information, instruction and training for operators.



DISCLAIMER

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by Warren Environmental and Coatings LLC and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc and Warren Environmental and Coatings LLC expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and Warren Environmental and Coatings LLC

END OF DOCUMENT

SECTION 1. IDENTIFIC	CATION	
Product identifier used on	the label	
	[:] 301-14 [®] , Part B (<i>I</i>	Activator)
Other means of identification: 301-14-0, 301-14-1, 301-14-1		-14-1.5, 301-14.2
Recommended use of the	chemical and restrictions on	use
	: Epoxy activator Restriction on use: None	e known
Chemical family	: Mixture	
Name, address, and tele of the supplier:	ephone number	Name, address, and telephone number of the manufacturer:
Warren Environmental®	[®] and Coatings LLC	Refer to supplier
137 Pine Street Middleboro, MA, USA 02346		
Supplier's Telephone #	: (508) 947 8539	
24 Hr. Emergency Tel #	· VELOCITYEHS: (800) 2 (Outside U.S., please ca	55-3924 (In Continental U.S.); VELOCITYEHS: +1 (813) 248-058 Il collect).
SECTION 2 HAZARDS	IDENTIFICATION	

Classification of the chemical

Amber liquid. Amine odour.

Most important hazards: Causes skin and eye burns. May cause respiratory irritation. May cause an allergic skin reaction. Occupational exposure to the substance or mixture may cause adverse effects. Toxic to aquatic life with long lasting effects. Avoid release to the environment.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification :

Skin corrosion/irritation -Category 1B Serious eye damage/eye irritation - Category 1 Skin sensitization - Category 1A Reproductive toxicity - Category 2 Specific target organ toxicity, single exposure - Category 3 (Respiratory irritation) Specific target organ toxicity, repeated exposure - Category 2)

Label elements

Hazard pictogram(s)



DANGER! Hazard statement(s)

> Causes severe skin burns and eye damage. May cause allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice. Immediately call a POISON CENTRE or doctor/physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Store locked up. Store in well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Other hazards which do not result in classification: Burning produces obnoxious and toxic fumes. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. Prolonged inhalation may cause adverse lung effects with symptoms including coughing, mucous production and difficulty breathing.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
m-Xylene alpha, alpha'-diamine	Not available	1477-55-0	5.0 - 10.0
Trimethylhexane-1,6-diamine	Not available	25620-58-0	5.0 - 10.0
Benzyl alcohol	Not available	100-51-6	3.0 - 7.0
Formaldehyde, polymer with benzenamine, hydrogenated	Not available	135108-88-2	3.0 - 7.0
Bisphenol A	Not available	80-05-7	3.0 - 7.0
Branched nonylphenol (mixed isomers)	Not available	84852-15-3	1.0 - 5.0
1,3-Propanediamine, N-[3- (tridecyloxy)propyl]-, branched	Not available	68479-04-9	1.0 - 5.0
4-Nonylphenol, branched	Not available	84852-15-3	1.0 - 5.0
4-tert-Butylphenol	Not available	98-54-4	0.1 - 1.0
4,4'-Methylenebis(cyclohexylamine)	Not available	1761-71-3	0.1 - 1.0
Distillates (petroleum), hydrotreated light	Not available	64742-47-8	0.1 - 1.0
Tetraethylenepentamine	Not available	112-57-2	0.1 - 1.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion

: Immediately call a POISON CENTRE or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Inhalation	: Immediately call a POISON CENTRE or doctor/physician. If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial
Skin contact	 respiration.If breathing is difficult, give oxygen by qualified medical personnel only. Immediately call a POISON CENTRE or doctor/physician.IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	: Immediately call a POISON CENTRE or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Most important symp	toms and effects, both acute and delayed
Indication of any imm	: Corrosive to all tissues. Causes severe skin burns and eye damage. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. May cause an allergic skin reaction (e.g. swelling, rash and eczema). Allergic symptoms may develop within 12 hours after exposure. May cause respiratory irritation. If mists are formed, may cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, chest pain and shortness of breath. Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract. Symptoms include: Gastrointestinal discomfort, nausea, vomiting, cramping and diarrhea. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
	: Immediate medical attention is required. Treat symptomatically.
SECTION 5. FIRE-H	FIGHTING MEASURES
Extinguishing media	
Suitable extinguish	ing media

: Carbon dioxide, dry chemical or alcohol foam.

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

: Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Carbon oxides, Nitrogen oxides, hydrogen cyanide, Ammonia, Amines, Aldehvdes. Ketones, and other irritating fumes and smoke.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat. helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. **Environmental precautions** For large spills, dike the area to prevent spreading.

Methods and material for containment and cleaning up

: Ventilate the area. Remove all sources of ignition. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Pick up and transfer to properly labeled containers. Refer to Section 13 for disposal of contaminated material. Contact the proper local authorities.

Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this preparation is being used. Wear protective gloves/clothing and eye/face protection. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. Do not breathe dust or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Wash thoroughly after handling. Keep containers tightly closed when not in use. Keep away from extreme heat and flame. Take precautions to prevent premature mixing of components and subsequent premature curing. Store locked up Keep container tightly closed. Store in a well-ventilated place. Store
Conditions for safe storage	:	Store locked up. Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials. Inspect periodically for damage or leaks. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking in the area.
Incompatible materials	:	Acids, strong oxidizing agents, bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

xposure Limits:				
Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	<u>STEL</u>	PEL	<u>STEL</u>
m-Xylene alpha, alpha'-diamine	0.1 mg/m ³ (Ceiling)	N/Av	0.1 mg/m ³ (Ceiling) (final rule limit)	N/Av
Trimethylhexane-1,6-diamine	N/Av	N/Av	N/Av	N/Av
Benzyl alcohol	10 ppm (AIHA WEEL)	N/Av	N/Av	N/Av
Formaldehyde, polymer with benzenamine, hydrogenated	N/Av	N/Av	N/Av	N/Av
Bisphenol A	N/Av	N/Av	N/Av	N/Av
Branched nonylphenol (mixed isomers)	N/Av	N/Av	N/Av	N/Av
1,3-Propanediamine, N-[3- (tridecyloxy)propyl]-, branched	N/Av	N/Av	N/Av	N/Av
4-Nonylphenol, branched	N/Av	N/Av	N/Av	N/Av
4-tert-Butylphenol	N/Av	N/Av	N/Av	N/Av
4,4'-Methylenebis(cyclohexylamin e)	N/Av	N/Av	N/Av	N/Av
Distillates (petroleum), hydrotreated light	200 mg/m³ (as total hydrocarbon vapour)	N/Av	N/Av	N/A∨
Tetraethylenepentamine	5 mg/m³ (skin) (AIHA WEEL)	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

vontalation and onglitoornig i	
Respiratory protection	 Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment. If airbourne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR)
Skin protection	 1910.134) or CSA Z94.4-02. NIOSH-approved, organic vapour cartridge respirators are recommended. Advice should be sought from respiratory protection specialists. Wear protective gloves/clothing. Gloves impervious to the material are recommended. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye / face protection	: Wear eye/face protection. Chemical splash goggles are recommended. A full face shield may also be necessary.
Other protective equipment	An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
General hygiene consideration	ons
	 Do not eat, drink, smoke or use cosmetics while working with this product. Do not breathe dust or mist. Avoid contact with eyes, skin and clothing. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Contaminated work clothing must not be allowed out of the workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SECTION 9. THISICALAI	D CHEWICAL I KOI EKTIES
Appearance	: Amber liquid.
Odour	: Amine odour.
Odour threshold	: N/Av
рН	: Not available.
Melting Point/Freezing point	: N/Av
Initial boiling point and boilir	ng range
	: 222°C
Flash point	: 107.22°C
Flashpoint (Method)	: Not applicable.
Evaporation rate (BuAe = 1)	: N/Av
Flammability (solid, gas)	: N/Ap
Lower flammable limit (% by	vol.)
	: N/Av
Upper flammable limit (% by	vol.)
	: N/Av
Oxidizing properties	: None.
Explosive properties	: Not explosive
Vapour pressure	: <1 mmHg
Vapour density	: >1
Relative density / Specific gra	avity
	: 1.05
Solubility in water	: Partially soluble.
Other solubility(ies)	: N/Av
Partition coefficient: n-octan	ol/water or Coefficient of water/oil distribution
	: N/Av
Auto-ignition temperature	: Not available.
Decomposition temperature	: N/Av
Viscosity	: viscous

Volatiles (% by weight)	: <1%
Volatile organic Compound	ls (VOC's)
	: N/Av
Absolute pressure of cont	ainer
	: N/Ap
Flame projection length	: N/Ap
Other physical/chemical co	omments
	: None reported by the manufacturer.
SECTION 10. STABILITY	AND REACTIVITY
Reactivity	: Not normally reactive.

Reductivity	. Normany reaction
Chemical stability	: Stable under the recommended storage and handling conditions prescribed.
Possibility of hazardous rea	ictions
	Hazardous polymerization does not occur.
Conditions to avoid	: Avoid heat and open flame. Avoid contact with incompatible materials. Ensure adequate ventilation, especially in confined areas.
Incompatible materials	: Acids, strong oxidizing agents, bases.
Hazardous decomposition	products
	: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

Sign and symptoms ingesi	: May cause respiratory irritation. If mists are formed, may cause severe irritation to the nose, throat and respiratory tract. Symptoms may include coughing, chest pain and shortness of breath.
	: Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract. Symptoms include: Gastrointestinal discomfort, nausea, vomiting, cramping and diarrhea.
Sign and symptoms skin	: Corrosive to skin. Causes severe skin burns. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring.
Sign and symptoms eyes	: Corrosive to eyes. Causes serious eye damage. Direct eye contact may produce severe irritation with possible eye damage.
Potential Chronic Health Ef	
Mutagenicity	 Prolonged inhalation may cause adverse lung effects with symptoms including coughing, mucous production and difficulty breathing. Prolonged or repeated overexposure may cause kidney effects. Not expected to be mutagenic in humans.
Carcinogenicity	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects & Tera	
-	 This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Reproductive toxicity - Category 2 Suspected of damaging fertility or the unborn child.

Sensitization to material	 This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Skin sensitization - Category 1A - May cause allergic skin reaction.
Specific target organ effects	Eyes, skin, respiratory system and digestive system.
	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific target organ toxicity, single exposure - Category 3 .May cause respiratory irritation.
	Specific Target Organ Toxicity, Repeated Exposure - Category 2.May cause damage to organs through prolonged or repeated exposure. (Kidneys)
Medical conditions aggrava	ed by overexposure
	: Pre-existing skin, eye and respiratory disorders.
Synergistic materials	: Not available.
Toxicological data	 There is no data available for this product. The calculated ATE values for this mixture are: ATE dermal =6830.51 mg/kg ATE oral = 2411.24 mg/kg ATE inhalation (mists) = 9.58 mg/kg

	LC50(4hr)	LD50	
Chemical name	inh, rat	(Oral, rat)	<u>(Rabbit, dermal)</u>
m-Xylene alpha, alpha'-diamine	800 mg/m³	930 mg/kg	>3100 mg/kg
Trimethylhexane-1,6-diamin e	N/Av	910 mg/kg	N/Av
Benzyl alcohol	> 4.178 mg/L (mist) (No mortality)	1230 mg/kg	2000 mg/kg
Formaldehyde, polymer with benzenamine, hydrogenated	N/Av	368mg/kg	> 1000 mg/kg (No mortality)
Bisphenol A	> 0.255 mg/L (dust) (No mortality)	3300 mg/kg	3600 mg/kg
Branched nonylphenol (mixed isomers)	N/Av	1246 mg/kg	2040 mg/kg
1,3-Propanediamine, N-[3- (tridecyloxy)propyl]-, branched	N/Av	518 mg/kg	N/Av
4-Nonylphenol, branched	N/Av	1246 mg/kg	2040 mg/kg
4-tert-Butylphenol	> 5.6 mg/L (dust)	4000 mg/kg	> 16 000 mg/kg
4,4'-Methylenebis(cyclohexyl amine)	N/Av	350 mg/kg	2110 mg/kg
Distillates (petroleum), hydrotreated light	>6.03 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg
Tetraethylenepentamine	N/Av	3250 mg/kg	660 - 1260 mg/kg

Other important toxicological hazards

: None reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Very toxic to aquatic life with long lasting effects. Do not allow this material to drain into sewers/water supplies. See data for individual ingredient ecotoxicity data.

SAFETY DATA SHEET

Ecotoxicity data:

• • · ·			Toxicity to Fish		
Ingredients	CAS#	LC50 / 96h	NOEC / 21 day	M Factor None.	
m-Xylene alpha, alpha'-diamine	1477-55-0	75mg/L (Golden orfe)	N/Av		
Benzyl alcohol	100-51-6	460 mg/L (Fathead minnow)	N/Av	None.	
Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2	63mg/L (Guppy)	N/Av	None.	
Bisphenol A	80-05-7	4.6 mg/L (Fathead minnow)	N/Av	None.	
Branched nonylphenol (mixed isomers)	84852-15-3	0.128 mg/L (Fathead minnow)	0.038 mg/L/28-day (Fathead minnow)	1	
1,3-Propanediamine, N-[3- (tridecyloxy)propyl]-, branched	68479-04-9	9 0.16 mg/L (Fathead N/Av minnow)		1	
4-Nonylphenol, branched	84852-15-3	0.128 mg/L (Fathead minnow)	0.038 mg/L/28-day (Fathead minnow)	1	
4-tert-Butylphenol	98-54-4	5.1 mg/L (Japanese ricefish)	N/Av	None.	
4,4'-Methylenebis(cyclohexylami ne)	1761-71-3	67.8 mg/L (unbuffered); > 100 mg/L (buffered) (Golden orfe)	> 1 mg/L (calculated)	None.	
Distillates (petroleum), hydrotreated light	64742-47-8	45 mg/L (Fathead minnow)	N/Av	None.	
Tetraethylenepentamine	112-57-2	310 mg/L (Fathead minnow)	N/Av	None.	

Ingredients	CAS#	Тох			
		EC50 / 48h	NOEC / 21 day	M Factor	
m-Xylene alpha, alpha'-diamine	1477-55-0	15.2 mg/L (Daphnia magna)	6.77 mg/L (Daphnia magna)	None.	
Benzyl alcohol	100-51-6	360 mg/L (Daphnia magna)	51 mg/L	None.	
Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2	15.4mg/L Water flea N/Av		None.	
Bisphenol A	80-05-7	10.2 mg/L (Daphnia > 3.146 mg/L magna)		None.	
Branched nonylphenol (mixed isomers)	84852-15-3	0.0844 mg/L (Daphnia magna)	0.024 mg/L (Daphnia magna)	10	
1,3-Propanediamine, N-[3- (tridecyloxy)propyl]-, branched	68479-04-9	0.132 mg/L (Daphnia magna)	0.058 mg/L	1	
4-Nonylphenol, branched	84852-15-3	0.0844 mg/L (Daphnia magna)	0.024 mg/L (Daphnia magna)	10	
4-tert-Butylphenol	98-54-4	3.4 mg/L (Daphnia magna)	0.73 mg/L	None.	
4,4'-Methylenebis(cyclohexylami ne)	1761-71-3	6.84 mg/L (unbuffered); 7.07 mg/L (buffered) (Daphnia magna)	4 mg/L (Read-across)	None.	
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	N/Av	
Tetraethylenepentamine	112-57-2	14.6 mg/L (Daphnia magna)	N/Av	None.	

Ingredients	CAS#	То	Toxicity to Algae			
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
m-Xylene alpha, alpha'-diamine	1477-55-0	12mg/L (Green algae)	6.25mg/L (Green algae)	None.		
Trimethylhexane-1,6-diamine	25620-58-0	72 Hr EC50 Desmodesmus subspicatus: 29.5 mg/L	N/Av			
Benzyl alcohol	100-51-6	500 mg/L/72hr (Green algae)	310 mg/L/72hr (Green algae)	None.		
Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2	43.94mg/L (Green algae)	N/Av	None.		
Bisphenol A	80-05-7	2.73 - 3.1 mg/L/96hr N/Av (Green algae)		None.		
Branched nonylphenol (mixed isomers)	84852-15-3	0.0563 mg/L/72hr (Green algae); 0.027 mg/L/72hr (Diatom)	0.0033 mg/L/72hr (Green algae)	en 10		
1,3-Propanediamine, N-[3- (tridecyloxy)propyl]-, branched	68479-04-9	0.42 mg/L/96hr (Green algae)	N/Av	1		
4-Nonylphenol, branched	84852-15-3	0.0563 mg/L/72hr (Green algae); 0.027 mg/L/72hr (Diatom)	ı/L/72hr algae)			
4-tert-Butylphenol	98-54-4	14 mg/L/72hr (Green algae)	0.32 mg/L/72hr	None.		
4,4'-Methylenebis(cyclohexylami ne)	1761-71-3	140 - 200 mg/L/72hr (unbuffered); 2164 mg/L/72hr (unbuffered) (Green algae)	(unbuffered); 2164 mg/L/72hr (unbuffered)			
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	N/Av		
Tetraethylenepentamine	112-57-2	2.1 - 6.8 mg/L/72hr (Green algae)	N/Av	None.		

SAFETY DATA SHEET

Persistence and degradability

: No data is available on the product itself.

Bioaccumulation potential : No data is available on the product itself.

SAFETY DATA SHEET

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)				
Benzyl alcohol (CAS 100-51-6)	1.1	0.31				
Formaldehyde, polymer with benzenamine, hydrogenated (CAS 135108-88-2)	2.68	219				
Bisphenol A (CAS 80-05-7)	3.4	5.1 - 13.3				
Branched nonylphenol (mixed isomers) (CAS 84852-15-3)	5.4	1300 (Fish)				
4,4'-Methylenebis(cyclohexylami ne) (CAS 1761-71-3)	2.03	N/Av				
4-tert-Butylphenol (CAS 98-54-4)	3.29	34 - 240				
m-Xylene alpha, alpha'-diamine (CAS 1477-55-0)	N/Av	2.7				
4-Nonylphenol, branched (CAS 84852-15-3)	5.4	1300 (Fish)				
Trimethylhexane-1,6-diamine (CAS 25620-58-0)	0.77 at 23 °C					
1,3-Propanediamine, N-[3- (tridecyloxy)propyl]-, branched (CAS 68479-04-9)	5.37					
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	5.1-8.8	N/Av				
Tetraethylenepentamine (CAS 112-57-2)	- 3.16	4.2 (estimated)				
lobility in soil :	No data is available on the product itself.					
other Adverse Environmental ef :	fects The ecological characteristics of this product have r adverse environmental effects (e.g. ozone depletio potential, endocrine disruption, global warming pot component.	n, photochemical ozone creation				
ECTION 13. DISPOSAL CONS	SIDERATIONS					
landling for Disposal :	Handle in accordance with good industrial hygiene a containers may retain product residue, follow label emptied. Refer to protective measures listed in sec	warnings even after container is				
lethods of Disposal :	Dispose in accordance with all applicable federal, st regulations.					
CRA :	regulations. f this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.					

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylene alpha, alpha'-diamine)	8	III	
TDG Additional information		d as a Limited Quantity when transported in containers no g (66 pounds) gross mass.	larger than 5 L (1.3 gallons);	in packages not
49CFR/DOT	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylene alpha, alpha'-diamine)	8	III	AF 2
49CFR/DOT Additional information		d as a Limited Quantity when transported in containers no g (66 pounds) gross mass.	larger than 5 L (1.3 gallons);	in packages not
ICAO/IATA	UN2735	Amines, liquid, corrosive, n.o.s. (m-Xylene alpha, alpha'-diamine)	8	III	
ICAO/IATA Additional information	Refer to ICAO/	ATA Packing Instruction			
IMDG	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylene alpha, alpha'-diamine)	8	III	
		DG regulations for exceptions.			v v

Special precautions for user: Appropriate advice on safety must accompany the package. **Environmental hazards**: This product meets the criteria for an environmentally hazard

: This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

	010 //	TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS #	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
m-Xylene alpha, alpha'-diamine	1477-55-0	Yes	N/Ap	N/Av	No	N/Ap	
Trimethylhexane-1,6-dia mine	25620-58-0	Yes	N/Ap	N/Av	No	N/Ap	
Benzyl alcohol	100-51-6	Yes	None.	None.	No	N/Ap	
Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2	Yes	None.	None.	No	N/Ap	
Bisphenol A	80-05-7	Yes	None.	None.	Yes	1%	
Branched nonylphenol (mixed isomers)	84852-15-3	Yes	None.	None.	No	N/Ap	
1,3-Propanediamine, N- [3-(tridecyloxy)propyl]-, branched	68479-04-9	Yes	None.	None.	No	N/Ap	
4-Nonylphenol, branched	84852-15-3	Yes	None.	None.	No	N/Ap	
4-tert-Butylphenol	98-54-4	Yes	None.	None.	No	N/Ap	
4,4'-Methylenebis(cycloh exylamine)	1761-71-3	Yes	None.	None.	No	N/Ap	
Distillates (petroleum), hydrotreated light	64742-47-8	Yes	N/Ap	N/Av	No	N/Ap	
Tetraethylenepentamine	112-57-2	Yes	None.	None.	No	N/Ap	

SAFETY DATA SHEET

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:Eye Damage ;Specific target organ toxicity, single exposure;Skin corrosion; Reproductive toxicity ; Skin sensitization; Specific target organ toxicity, repeated exposure .Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingradiants	CAS #	California Proposition 65			State "Right to Know" Lists						
Ingredients	CA3#	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI		
m-Xylene alpha, alpha'-diamine	1477-55-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes		
Trimethylhexane-1,6-diami ne	25620-58-0	No	N/Ap	No	No	No	Yes	No	No		
Benzyl alcohol	100-51-6	No	N/Ap	No	Yes	Yes	No	Yes	No		
Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2	No	N/Ap	No	No	No	No	No	No		
Bisphenol A	80-05-7	No	female	No	Yes	No	Yes	Yes	No		
Branched nonylphenol (mixed isomers)	84852-15-3	No	N/Ap	No	No	Yes	No	No	No		
1,3-Propanediamine, N-[3- (tridecyloxy)propyl]-, branched	68479-04-9	No	N/Ap	No	No	No	No	No	No		
4-Nonylphenol, branched	84852-15-3	No	N/Ap	No	No	Yes	No	No	No		
4-tert-Butylphenol	98-54-4	No	N/Ap	No	No	No	No	No	No		
4,4'-Methylenebis(cyclohex ylamine)	1761-71-3	No	N/Ap	No	No	No	No	No	No		
Distillates (petroleum), hydrotreated light	64742-47-8	No	N/Ap	No	No	No	No	No	No		
Tetraethylenepentamine	112-57-2	No	N/Ap	No	Yes	No	Yes	Yes	No		

SAFETY DATA SHEET

Canadian Information:

All ingredients are present on the DSL. WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
m-Xylene alpha, alpha'-diamine	1477-55-0	216-032-5	Present	Present	(3)-308; (3)-2888	KE-02918	Present	N/Av
Trimethylhexane-1,6-dia mine	25620-58-0	247-134-8	Present	Present	(2)-154	KE-34545	Present	Present
Benzyl alcohol	100-51-6	202-859-9	Present	Present	(3)-1011	KE-02570	Present	HSR001039
Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2	Polymer	Present	Present	Not listed	KE-17094	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
Bisphenol A	80-05-7	201-245-8	Present	Present	(4)-123	KE-23982	Present	HSR003399
Branched nonylphenol (mixed isomers)	84852-15-3	284-325-5	Present	Present	(3)-503	KE-03584; 2001-1-515	Present	HSR003846
1,3-Propanediamine, N- [3-(tridecyloxy)propyl]-, branched	68479-04-9	270-851-2	Present	Present	Not listed	KE-03592	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.
4-Nonylphenol, branched	84852-15-3	284-325-5	Present	Present	(3)-503	KE-03584; 2001-1-515	Present	HSR003846
4-tert-Butylphenol	98-54-4	202-679-0	Present	Present	(4)-57; (3)-503	KE-11399	Present	HSR003913
4,4'-Methylenebis(cycloh exylamine)	1761-71-3	217-168-8	Present	Present	(4)-101; (3)-2272	KE-23815	Present	HSR003552
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	Present	Present	(9)-1700	KE-12550	Present	No information available.
Tetraethylenepentamine	112-57-2	203-986-2	Present	Present	(2)-162	KE-01347	Present	HSR003219

SAFETY DATA SHEET

SECTION 16. OTHER INFORMATION

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
AIHA: American Industrial Hygiene Association
CA: California
CAS: Chemical Abstract Services
CEPA: Canadian Environmental Protection Act
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
IMDG: International Maritime Dangerous Goods
Inh: Inhalation
IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
MA: Massachusetts
MN: Minnesota

	MSHA: Mine Safety and Health Administration
	N/Ap: Not Applicable
	N/Av: Not Available
	NIOSH: National Institute of Occupational Safety and Health
	NJ: New Jersey
	NOEC: No observable effect concentration
	NPRI: National Pollutant Release Inventory
	NTP: National Toxicology Program
	OSHA: Occupational Safety and Health Administration
	PA: Pennsylvania
	PEL: Permissible exposure limit
	PICCS: Philippine Inventory of Chemicals and Chemical Substances
	RCRA: Resource Conservation and Recovery Act
	RI: Rhode Island
	RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act
	STEL: Short Term Exposure Limit
	TDG: Canadian Transportation of Dangerous Goods Act & Regulations
	TLV: Threshold Limit Values
	TSCA: Toxic Substance Control Act
	TWA: Time Weighted Average
	WEEL: Workplace Environmental Exposure Level
	WHMIS: Workplace Hazardous Materials Identification System
References	: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &
	Biological Exposure Indices for
	2. ECHA - European Chemical Agency
	Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs).
	4. Safety Data Sheets from manufacturer.
	5. US EPA Title III List of Lists
	6. California Proposition 65 List
	7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal
Preparation Date (mm/dd/yyyy	
	: 07/22/2022
Other special considerations	for nangling

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared for:	
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