

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 10/15/2020

SECTION 1: Identification Identification 1.1. Product form : Mixture Product name : EP1290 Clear B Recommended use and restrictions on use 1.2. : Epoxy hardener Recommended use Restrictions on use : Product for industrial use only 1.3. Supplier ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 - United States T 1-877-259-1669 msds@resinlab.com - www.resinlab.com **Emergency telephone number** 1.4. : CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International) Emergency number SECTION 2: Hazard(s) identification Classification of the substance or mixture 2.1. **GHS US classification** Skin corrosion/irritation Category 2 H315 Causes skin irritation Causes serious eye irritation Serious eye damage/eye irritation Category 2A H319 Skin sensitization, Category 1 H317 May cause an allergic skin reaction Full text of H statements : see section 16 22 GHS Label elements, including precautionary statements **GHS US labeling** Hazard pictograms (GHS US) Signal word (GHS US) Warning • Hazard statements (GHS US) H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation Precautionary statements (GHS US) P261 - Avoid breathing dust/fume/gas/mist/vapors/sprav. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of 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. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Version: 1.0

Other hazards which do not result in classification 2.3.

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable **3.2. Mixtures**

Name	Product identifier	%	GHS US classification
Fatty acids, c18-unsat., dimers,polymers with 3,3'- (oxybis(2,1-ethanediyloxy))bis(1-propanamine)	(CAS-No.) 68541-13-9	50 – 75	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
Polyamide Resin	(CAS-No.) 68410-23-1	10 – 30	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
Diethylene glycol Bis(3-aminopropyl) Ether	(CAS-No.) 4246-51-9	5 – 10	Skin Corr. 1, H314 Skin Sens. 1, H317
triethylenetetramine	(CAS-No.) 112-24-3	1 – 5	Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Immediately rinse with plenty of water (for at least 15 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Get medical advice/attention.
4.2. Most important symptoms and effect	s (acute and delayed)
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
4.3. Immediate medical attention and spe	cial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishi	ng media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the che	emical
5.3. Special protective equipment and pro	ecautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	nt and cleaning up
For containment	: Collect spillage.

Safety Data Sheet

Methods for cleaning up Other information	 Take up liquid spill into absorbent material. Dispose of materials or solid residues at an authorized site.
4. Reference to other sections	
or further information refer to section 13.	
ECTION 7: Handling and storag	e
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/p .1. Control parameters	
Polyamide Resin (68410-23-1)	
Not applicable	
Fatty acids, c18-unsat., dimers,polyme	ers with 3,3'-(oxybis(2,1-ethanediyloxy))bis(1-propanamine) (68541-13-9)
Not applicable	
Diethylene glycol Bis(3-aminopropyl)	Ether (4246-51-9)
Not applicable	
triethylenetetramine (112-24-3) Not applicable	
3.2. Appropriate engineering contro	le
Appropriate engineering controls	: Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the
	workplace.
Environmental exposure controls	: Avoid release to the environment.
3.3. Individual protection measures/	Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses with side shields	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation, wear su	itable respiratory equipment
Personal protective equipment symbol(
	sj.



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 9: Physical and chemical pr	conortion	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and che		
Physical state	: Liquid	
Color	: amber	
Odor	: characteristic	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: > 221 °C	
Flash point	: > 93 °C	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Specific gravity / density	: 1.35 g/cm ³	
Solubility	: No data available	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
VOC content	No data available	

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2.	Chemical stability	/

Stable under normal conditions.

10.3.	Possibility of hazardous reactions
No dange	rous reactions known under normal conditions of use.
10.4.	Conditions to avoid
None und	er recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Mineral acids. Oxidizing agent. Peroxides. Product slowly corrodes copper, aluminum, zinc, and galvanized surfaces. Sodium hypochlorite.

10.6. Hazardous decomposition products

ammonia. Nitrogen oxides.

SECTION 11: Toxicological information	ation
11.1. Information on toxicological effect	ts
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified

Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)		
LD50 oral rat	3160 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)		
LD50 dermal rat	> 2150 mg/kg (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal)	
LD50 dermal rabbit	2500 mg/kg	
ATE US (oral)	3160 mg/kg body weight	
ATE US (dermal)	2500 mg/kg body weight	
triethylenetetramine (112-24-3)		
LD50 oral rat	2500 mg/kg (Rat, Literature, Oral)	
LD50 dermal rabbit	805 mg/kg (Rabbit, Literature, Dermal)	
ATE US (oral)	2500 mg/kg body weight	
ATE US (dermal)	805 mg/kg body weight	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: Eye irritation.	

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Harmful to aquatic life. Toxic to aquatic life with long lasting effects.

Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)		
LC50 fish 1	215 – 464 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 Daphnia 1	218.16 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)	
triethylenetetramine (112-24-3)		
LC50 fish 1	495 mg/l (96 h, Pimephales promelas, Fresh water, Literature study)	
EC50 Daphnia 1	31.1 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Literature study)	
ErC50 (algae)	≥ 100 mg/l (DIN 38412-9, 72 h, Scenedesmus subspicatus, Literature study, Growth)	

12.2. Persistence and degradability

Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)		
Persistence and degradability Not readily biodegradable in water.		
triethylenetetramine (112-24-3)		
Persistence and degradability	Not readily biodegradable in water.	

12.3. Bioaccumulative potential

Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)		
BCF other aquatic organisms 1 0.07 (Calculated value)		
Partition coefficient n-octanol/water (Log Pow)	-1.25 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Bioaccumulative potential	Not bioaccumulative.	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

triethylenetetramine (112-24-3)	
BCF other aquatic organisms 1	3.162 (BCFBAF v3.01, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	-2.65 (Estimated value, KOWWIN)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)		
Partition coefficient n-octanol/water (Log Koc)	1.2 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	
triethylenetetramine (112-24-3)		
Partition coefficient n-octanol/water (Log Koc)	1.885 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	

Other adverse effects 12.5.

No additional information available

SECTION 13: Disposal consideration	S
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
Department of Transportation (DOT) In accordance with DOT	
Not regulated	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyethylenepolyamines), 9, III
UN-No. (IMDG)	 : 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Polyethylenepolyamines
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
Limited quantities (IMDG)	: 5L
Marine pollutant	Yes
Air transport	
Transport document description (IATA) UN-No. (IATA)	 UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Polyethylenepolyamines), 9, III 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.

- : Environmentally hazardous substance, liquid, n.o.s.
 - Polyethylenepolyamines
 - : 9 Miscellaneous Dangerous Goods
 - : III Minor Danger

Class (IATA)

Packing group (IATA)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 15: Regulatory information		
15.1. US Federal regulations		
Polyamide Resin (68410-23-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).	
Fatty acids, c18-unsat., dimers,polymers with 3,3'-(oxybis(2,1-ethanediyloxy))bis(1-propanamine) (68541-13-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).	
Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
triethylenetetramine (112-24-3)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

15.2. International regulations

CANADA

Polyamide Resin (68410-23-1)

Listed on the Canadian DSL (Domestic Substances List)

Fatty acids, c18-unsat., dimers, polymers with 3,3'-(oxybis(2,1-ethanediyloxy))bis(1-propanamine) (68541-13-9)

Listed on the Canadian DSL (Domestic Substances List)

Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)

Listed on the Canadian DSL (Domestic Substances List)

triethylenetetramine (112-24-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Contains the following REACH ingredient(s): Terphenyl hydrogenated (EC 262-967-7, CAS 61788-32-7)

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
triethylenetetramine(112-24-3)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS US - ResinLab

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.