

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) Issue date: 5/20/2025 Version: 1.0

SECTION 1 Identification	
1.1. Product identifier	
Product form Product name	: Mixture : EP1115 Clear B
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemical an	id restrictions on use
Recommended use Restrictions on use	: Epoxy hardener : Product for industrial use only
1.4. Supplier's details	
ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI, 53022 United States T 1-877-259-1669 <u>msds@resinlab.com</u> - <u>www.resinlab.com</u>	
1.5. Emergency phone number	
Emergency number	: CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)
SECTION 2 Hazard Identification 2.1. Classification of the substance or mix	cture
GHS US classification	
Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Skin sensitization, Category 1	H315 Causes skin irritation.H318 Causes serious eye damage.H317 May cause an allergic skin reaction.
Full text of H statements : see section 16	
2.2. Label elements	
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Danger H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage P261 - Avoid breathing dust, fume, gas, mist, vapors, spray. 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. 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.

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P310 - Immediately call a poison center or doctor.
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable **3.2. Mixtures**

Name	Product identifier	%
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	CAS-No.: 68082-29-1	30 – 50
Mercaptan terminated polymer	CAS-No.: 72244-98-5	30 – 50
1,3-Bis[3-(dimethylamino)propyl]urea	CAS-No.: 52338-87-1	1 – 5
Triethylenetetramine	CAS-No.: 112-24-3	1 – 5

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

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures		
First-aid measures general	: If you feel unwell, seek medical advice.	
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). Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. 	
First-aid measures after ingestion	: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms/effects, acute and delayed		
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
Symptoms/effects after ingestion	: None under normal conditions.	

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

Other medical advice or treatment

: Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	media		
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use water jet to extinguish.		
5.2. Specific hazards arising from the chemical			
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released. Carbon oxides (CO, CO2). Gaseous ammonia. Nitrogen oxides. Nitrosamine. Sulfur oxides (SOx). Hydrogen sulfide. Nitrogen oxide can react with water to form corrosive nitric acid. 		
5.3. Special protective equipment and precautions for fire-fighters			
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 		

SECTION 6 Accidental release measures		
6.1. Personal precautions, protect	ive equipment and emergency procedures	
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.	
For non-emergency personnel		
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. 	
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".	
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.	
Environmental precautions	: Avoid release to the environment.	
6.2. Methods and materials for con	ntainment and cleaning up	
For containment	 Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk. 	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: Dispose of materials or solid residues at an authorized site.	

For further information refer to section 13

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SECTION 7 Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling Hygiene measures	 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. 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. 	
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.	
7.2. Conditions for safe storage, including incompatibilities		
Technical measures Storage conditions Packaging materials	 Keep in a cool, well-ventilated place away from heat. Keep cool. Protect from sunlight. Store always product in container of same material as original container. 	

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Triethylenetetramine (112-24-3)		
USA - AIHA - Occupational Exposure Limits		
WEEL TWA	1 ppm (skin)	
8.2. Appropriate engineering control	S	
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.	
8.3. Individual protection measures,	such as personal protective equipment	
Personal protective equipment: Wear recommended 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 suitable respiratory equipment		
Personal protective equipment symbol(s)		

Personal protective equipment symbol(s):



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SECTION 9 Physical and chemical properties

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Dhusiaal state	. Linuid
Physical state	: Liquid
Color	: Amber
Odor	: mild
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 170 °C
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.05 g/cm³
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	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information 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 dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. Amines. Oxidizing agents. N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. . Nitrous acid and nitrosating agents. Organic acid. Mineral acids. Sodium hypochlorite. May slowly corrode copper, aluminum, zinc, and galvanized surfaces. Peroxides.

10.6. Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/ indicated. Refer to section 5.2 for hazardous decomposition products during combustion.

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11.1. Information on toxicological effe	cts
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Fatty acids, C18-unsatd., dimers, olige	omeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
Triethylenetetramine (112-24-3)	
LD50 oral rat	1716 mg/kg body weight (BASF test, Rat, Experimental value, Oral)
LD50 dermal rabbit	1465 mg/kg body weight (BASF test, Rabbit, Experimental value, Dermal)
ATE US (oral)	1716 mg/kg body weight
ATE US (dermal)	1465 mg/kg body weight
Skin corrosion/irritation	Causes skin irritation.
Fatty acids, C18-unsatd., dimers, oligo	omeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)
рН	10.98 (1 %, 25 °C, CIPAC MT 75: Determination of pH)
Triethylenetetramine (112-24-3)	
рН	10.7
Serious eye damage/irritation	: Causes serious eye damage.
Fatty acids, C18-unsatd., dimers, oligo	omeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)
рН	10.98 (1 %, 25 °C, CIPAC MT 75: Determination of pH)
Triethylenetetramine (112-24-3)	
рН	10.7
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
Fatty acids, C18-unsatd., dimers, oligo	omeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
spiration hazard	: Not classified
1,3-Bis[3-(dimethylamino)propyl]urea	(52338-87-1)
Viscosity	315.789 mm²/s
Fatty acids, C18-unsatd., dimers, oligo	omeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)
Viscosity	No data available in the literature

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1,3-Bis[3-(dimethylamino)propyl]urea (52338-87-1)	
Triethylenetetramine (112-24-3)	
Viscosity	No data available in the literature
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12 Ecological information

12.1. Ecotoxicity

· · · · · · · · · · · · · · · · · · ·		
Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-		
LC50 - Fish [1]	7.07 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	7.07 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 72h - Algae [1]	4.34 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
ErC50 algae	4.34 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Experimental value, Nominal concentration)	
Triethylenetetramine (112-24-3)		
LC50 - Fish [1]	495 mg/l (96 h, Pimephales promelas, Fresh water, Literature study)	
EC50 - Crustacea [1]	31.1 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Literature study)	

12.2. Persistence and degradability

EP1115 Clear B		
Persistence and degradability	Not rapidly degradable	
Mercaptan terminated polymer (72244-98-5)		
Persistence and degradability	Not rapidly degradable	
1,3-Bis[3-(dimethylamino)propyl]urea (52338-87-1)		
Persistence and degradability	Not rapidly degradable	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)		
Persistence and degradability	Not readily biodegradable in water.	
Triethylenetetramine (112-24-3)		
Persistence and degradability	Not readily biodegradable in water.	

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12.3. Bioaccumulative potential		
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)		
BCF - Other aquatic organisms [1] 77.4 l/kg (BCFBAF v3.01, QSAR, Fresh weight)		
Partition coefficient n-octanol/water (Log Pow)	0.3 – 3.55 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Triethylenetetramine (112-24-3)		
Partition coefficient n-octanol/water (Log Pow)	-2.65 (Estimated value, KOWWIN)	
Bioaccumulative potential	Not bioaccumulative.	

12.4. Mobility in soil

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)		
Surface tension	63.93 mN/m (23 °C, 0.15 g/l, EU Method A.5: Surface tension)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	6.5 – 8.6 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Adsorbs into the soil.	
Triethylenetetramine (112-24-3)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.885 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	
12.5. Other adverse effects		

Ozone	: Not classified
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations	\$
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number	
UN-No. (DOT) UN-No. (IMDG) UN-No. (IATA)	: Not regulated : 3082 : 3082
14.2. UN Proper Shipping Name	
Proper Shipping Name (DOT)	: Not regulated

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Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyamide resin) Environmentally hazardous substance, liquid, n.o.s. (Polyamide resin)
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not regulated
IMDG Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 9 : 9
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 9 : 9
14.4. Packing group	
Packing group (DOT) Packing group (IMDG) Packing group (IATA)	: Not regulated : III : III
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant	: Yes : Yes
Other information	: No supplementary information available.
14.6. Transport in bulk	
Not applicable	
14.7. Special precautions for user	
DOT Not regulated	
IMDG Special provision (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Packing provisions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)	 274, 335, 969 5 L E1 LP01, P001 PP1 IBC03 T4 TP1, TP29 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

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Stowage category (IMDG)	: A
IATA Special provision (IATA) PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) ERG code (IATA)	: A97, A158, A197 : E1 : Y964 : 30kgG : 964 : 450L : 964 : 450L : 9L

SECTION 15 Regulatory information

15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Mercaptan terminated polymer	72244-98-5	Present	Active	XU
1,3-Bis[3-(dimethylamino)propyl]urea	52338-87-1	Present	Active	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	68082-29-1	Present	Active	XU
Triethylenetetramine	112-24-3	Present	Active	

15.2. International regulations

CANADA

Mercaptan terminated polymer (72244-98-5)

Listed on the Canadian DSL (Domestic Substances List)

1,3-Bis[3-(dimethylamino)propyl]urea (52338-87-1)

Listed on the Canadian DSL (Domestic Substances List)

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)

Listed on the Canadian DSL (Domestic Substances List)

Triethylenetetramine (112-24-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

1,3-Bis[3-(dimethylamino)propyl]urea (52338-87-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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Triethylenetetramine (112-24-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Mercaptan terminated polymer (72244-98-5)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

1,3-Bis[3-(dimethylamino)propyl]urea (52338-87-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals)

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Triethylenetetramine (112-24-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

15.3. 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

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Full text of hazard classes and H-statements	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage

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Full text of hazard classes and H-statements	
H401	Toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects	

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.