

## Safety Data Sheet

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

Issue date: 08/24/2020 Revision date: 06/11/2024 Supersedes: 07/13/2022

Version: 1.3

## **SECTION 1: Identification**

## 1.1. Identification

Product form : Mixture
Product name : EP1295 Black B

### 1.2. Recommended use and restrictions on use

Recommended use : Epoxy hardener

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

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)

## **SECTION 2: Hazard(s) identification**

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation Category 1B H314 Causes severe skin burns and eye damage Skin sensitization, Category 1 H317 May cause an allergic skin reaction

Reproductive toxicity Category 2 H361 Suspected of damaging fertility or the unborn child

Specific target organ toxicity (repeated exposure) Category 1 H372 Causes damage to organs through prolonged or repeated exposure

Full text of H statements: see section 16

### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US) :







Signal word (GHS US) : Danger

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H361 - Suspected of damaging fertility or the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P272 - Contaminated work clothing must not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P302+P352 - If on skin: Wash with plenty of water.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

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

P310 - Immediately call a poison center or doctor. P314 - Get medical advice/attention if you feel unwell.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.
P405 - Store locked up.

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P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

## **SECTION 3: Composition/Information on ingredients**

## 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%
Styrenated phenol	(CAS-No.) 61788-44-1	10 – 30
Fatty acids, c18-unsat., dimers,polymers with 3,3'-(oxybis(2,1-ethanediyloxy))bis(1-propanamine)	(CAS-No.) 68541-13-9	5 – 10
N-(2-Aminoethyl)piperazine	(CAS-No.) 140-31-8	5 – 10
Ammonium Polyphosphate	(CAS-No.) 68333-79-9	5 – 10
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	(CAS-No.) 68953-36-6	1 – 5
Diethylene glycol Bis(3-aminopropyl) Ether	(CAS-No.) 4246-51-9	0.1 – 0.5
Tetraethylenepentamine	(CAS-No.) 112-57-2	0.1 – 0.5

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 general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Rinse immediately with plenty of water for 15 minutes. Remove/Take off immediately all

contaminated clothing. 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. Obtain medical attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately. Never give anything by

mouth to an unconscious person.

## 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

## 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use water jet to extinguish.

## 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of : Toxic fumes may be released, Carbon oxides (CO, CO2), Nitrogen oxides, ammonia

fire

## 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

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### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures

: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe

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 and cleaning up

For containment

: Collect spillage.

Methods for cleaning up

: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public

waters

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

## **SECTION 7: Handling and storage**

### 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe 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.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep cool.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

Ammonium Polyphosphate (68333-79-9)			
Not applicable			
Tetraethylenepentamine (11	Tetraethylenepentamine (112-57-2)		
AIHA	WEEL TWA	5 mg/m³	
Fatty acids, tall-oil, reaction	products with tetraethylenepentamine (68953-36-6)		
Not applicable			
Fatty acids, c18-unsat., dime	ers,polymers 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			
N-(2-Aminoethyl)piperazine (140-31-8)			
Not applicable			
Styrenated phenol (61788-44-1)			
Not applicable			

## 8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.

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Environmental exposure controls : Avoid release to the environment.

## 8.3. 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 inadequate ventilation, wear respiratory protection.

### Personal protective equipment symbol(s):







## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid Color : Tan

Odor : characteristic
Odor threshold : No data available
pH : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : No data available

Flash point : > 93 °C

Relative evaporation rate (butyl acetate=1) : No data available Flammability : Not applicable.

Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density : No data available Density : 1.44 g/cm³

Solubility : No data available Partition coefficient n-octanol/water (Log Pow) No data available : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, dynamic : No data available **Explosion limits** Explosive properties No data available : No data available Oxidizing properties 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.

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## 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

Oxidizing agent. Peroxides. Sodium hypochlorite. Organic acid.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Refer to section 5.2 for hazardous decomposition products during combustion.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Ammonium Polyphosphate (68333-79-9)		
LD50 oral rat	5625 mg/kg (Rat, Oral)	
LD50 dermal rabbit	> 3160 mg/kg (Rabbit, Dermal)	
LC50 Inhalation - Rat	> 4.85 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method), Guideline: other:EU Method B.52 (Acute Inhalation Toxicity - Acute Toxic Class Method, 2014)	
ATE US (oral)	5625 mg/kg body weight	
Tetraethylenepentamine (112-57-2)		
LD50 oral rat	3221 mg/kg	
LC50 Inhalation - Rat	> 9.9 mg/l air (8 h, Rat, Male, Literature study, Inhalation)	

LD50 oral rat	3221 mg/kg
LC50 Inhalation - Rat	> 9.9 mg/l air (8 h, Rat, Male, Literature study, Inhalation)
ATE US (oral)	3221 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight

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, 14 day(s))	
LD50 dermal rat	> 2150 mg/kg (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))	
LD50 dermal rabbit	2500 mg/kg body weight	
N-(2-Aminoethyl)piperazine (140-31-8)		
LD50 oral rat	2097 mg/kg body weight (Rat, Male, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	866 mg/kg bw/day (24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))	
ATE US (oral)	2097 mg/kg body weight	

7112 00 (oral)	2007 Highty body Wolght
ATE US (dermal)	866 mg/kg body weight
Styrenated phenol (61788-44-1)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 4.92 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Assumed to cause serious eye damage Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

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STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Diethylene glycol Bis(3-aminopropyl) Ether (4246-51-9)		
LOAEL (oral,rat,90 days)	100 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:	
N-(2-Aminoethyl)piperazine (140-31-8)		
STOT-repeated exposure	Causes damage to organs (respiratory system) through prolonged or repeated exposure (Inhalation).	
Styrenated phenol (61788-44-1)		
LOAEL (oral,rat,90 days)	337 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Remarks on results: other:	
NOAEL (dermal,rat/rabbit,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)	
Aspiration hazard	: Not classified	
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
Symptoms/effects after ingestion	: Burns.	

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Ammonium Polyphosphate (68333-79-9)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
Tetraethylenepentamine (112-57-2)	
LC50 - Fish [1]	420 mg/l (EU Method C.1, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	24 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Experimental value, GLP)
ErC50 algae	6.8 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Selenastrum capricornutum,

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 - Crustacea [1]	218.16 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)	
LC50 - Fish [2]	215 – 464 mg/l Test organisms (species): Leuciscus idus	
NOEC (chronic)	> 1 mg/l Test organisms (species): Daphnia magna	
NOEC chronic fish	> 1 mg/l Test organisms (species): Leuciscus idus	
N-(2-Aminoethyl)piperazine (140-31-8)		
LC50 - Fish [1]	2190 mg/l (96 h, Pimephales promelas, Static system, Fresh water, Experimental value)	
EC50 - Crustacea [1]	58 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, GLP)	
ErC50 algae	> 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Fresh water, Experimental value, GLP)	
Styrenated phenol (61788-44-1)		
LC50 - Fish [1]	1.77 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	4.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
NOEC (chronic)	0.115 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	1.9 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'	

## 12.2. Persistence and degradability

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Tetraethylenepentamine (112-57-2)	N. C. P. L.
Persistence and degradability	Not readily biodegradable in water.
Diethylene glycol Bis(3-aminopropyl) Ether (	4246-51-9)
Persistence and degradability	Not readily biodegradable in water.
N-(2-Aminoethyl)piperazine (140-31-8)	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	0.56 g O₂/g substance
Styrenated phenol (61788-44-1)	
Persistence and degradability	Not readily biodegradable in water.
3. Bioaccumulative potential	
Ammonium Polyphosphate (68333-79-9)	
Bioaccumulative potential	No test data of component(s) available.
Tetraethylenepentamine (112-57-2)	
BCF - Other aquatic organisms [1]	3.2 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.5 (Literature study)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Diethylene glycol Bis(3-aminopropyl) Ether (	4246-51-9)
BCF - Fish [1]	0.89 – 3.16 (BCFBAF v3.01, Pisces, Estimated 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.
N-(2-Aminoethyl)piperazine (140-31-8)	
BCF - Fish [1]	0.3 – 6.3 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across)
Partition coefficient n-octanol/water (Log Pow)	-1.48 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Styrenated phenol (61788-44-1)	
BCF - Fish [1]	3246 l/kg (BCFBAF v3.01, Pisces, Fresh water, Weight of evidence, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	3 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23.6 °C)
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).
4. Mobility in soil	
Ammonium Polyphosphate (68333-79-9)	
Ecology - soil	No (test)data on mobility of the component(s) available.
	The (cost)data of mobility of the component(o) available.
Tetraethylenepentamine (112-57-2) Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.2 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.
Diethylene glycol Bis(3-aminopropyl) Ether (	4246-51-9)
	Highly mobile in soil.
Ecology - soil	·
N-(2-Aminoethyl)piperazine (140-31-8)	No data available in the literature
N-(2-Aminoethyl)piperazine (140-31-8) Surface tension Organic Carbon Normalized Adsorption	No data available in the literature 4.57 (log Koc, Read-across, GLP)
N-(2-Aminoethyl)piperazine (140-31-8) Surface tension Organic Carbon Normalized Adsorption Coefficient (Log Koc)	
N-(2-Aminoethyl)piperazine (140-31-8) Surface tension Organic Carbon Normalized Adsorption Coefficient (Log Koc) Ecology - soil	4.57 (log Koc, Read-across, GLP)
N-(2-Aminoethyl)piperazine (140-31-8) Surface tension Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.57 (log Koc, Read-across, GLP)
N-(2-Aminoethyl)piperazine (140-31-8) Surface tension Organic Carbon Normalized Adsorption Coefficient (Log Koc) Ecology - soil Styrenated phenol (61788-44-1)	4.57 (log Koc, Read-across, GLP)  Low potential for mobility in soil.

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### 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

### 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

Transport document description (DOT) : UN2735 Polyamines, liquid, corrosive, n.o.s. (N-(2-Aminoethyl)piperazine; Fatty acids, tall-oil,

reaction products with tetraethylenepentamine), 8, III

UN-No.(DOT) : UN2735

Proper Shipping Name (DOT) : Polyamines, liquid, corrosive, n.o.s.

N-(2-Aminoethyl)piperazine; Fatty acids, tall-oil, reaction products with tetraethylenepentamine

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : III - Minor Danger Hazard labels (DOT) : 8 - Corrosive



Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203 DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Special Provisions (49 CFR 172.102)

: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

MANN

DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 52 - Stow "separated from" acids

Emergency Response Guide (ERG) Number : 15

Other information : No supplementary information available.

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#### **Transportation of Dangerous Goods**

Not applicable

## Transport by sea

Transport document description (IMDG) : UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (N-(2-Aminoethyl)piperazine; Fatty

acids, tall-oil, reaction products with tetraethylenepentamine), 8, III

UN-No. (IMDG) : 2735

POLYAMINES, LIQUID, CORROSIVE, N.O.S.

N-(2-Aminoethyl)piperazine; Fatty acids, tall-oil, reaction products with tetraethylenepentamine

Class (IMDG) : 8 - Corrosive substances

Packing group (IMDG) : III - substances presenting low danger

Limited quantities (IMDG) : 5 L

Marine pollutant : Yes



#### Air transport

Transport document description (IATA) : UN 2735 Polyamines, liquid, corrosive, n.o.s. (N-(2-Aminoethyl)piperazine; Fatty acids, tall-oil,

reaction products with tetraethylenepentamine), 8, III

UN-No. (IATA) : 2735

Proper Shipping Name (IATA) : Polyamines, liquid, corrosive, n.o.s.

N-(2-Aminoethyl)piperazine; Fatty acids, tall-oil, reaction products with tetraethylenepentamine

Class (IATA) : 8 - Corrosives
Packing group (IATA) : III - Low danger

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

### Ammonium Polyphosphate (68333-79-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Tetraethylenepentamine (112-57-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Fatty acids, tall-oil, reaction products with tetraethylenepentamine (68953-36-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 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

## N-(2-Aminoethyl)piperazine (140-31-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Styrenated phenol (61788-44-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

#### CANADA

## Ammonium Polyphosphate (68333-79-9)

Listed on the Canadian DSL (Domestic Substances List)

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### Tetraethylenepentamine (112-57-2)

Listed on the Canadian DSL (Domestic Substances List)

#### Fatty acids, tall-oil, reaction products with tetraethylenepentamine (68953-36-6)

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)

## N-(2-Aminoethyl)piperazine (140-31-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Styrenated phenol (61788-44-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

Contains no REACH candidate substance

#### Ammonium Polyphosphate (68333-79-9)

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

#### Tetraethylenepentamine (112-57-2)

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

#### Fatty acids, tall-oil, reaction products with tetraethylenepentamine (68953-36-6)

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

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

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

## N-(2-Aminoethyl)piperazine (140-31-8)

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

### Styrenated phenol (61788-44-1)

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

## **National regulations**

## Ammonium Polyphosphate (68333-79-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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)

## Tetraethylenepentamine (112-57-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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)

## Fatty acids, tall-oil, reaction products with tetraethylenepentamine (68953-36-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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)

## 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 - Status: Active

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)

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## Safety Data Sheet

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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)

#### N-(2-Aminoethyl)piperazine (140-31-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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)

## Styrenated phenol (61788-44-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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)

### 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
Tetraethylenepentamine(112-57-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
N-(2-Aminoethyl)piperazine(140-31-8)	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

Revision date : 06/11/2024

## Full text of H-phrases:

iii toxt or i i priracco.	
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H411	Toxic 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.

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