Safety Data Sheet
acc. to OSHA HCS

Print Date 06/13/2016 Revision Date 06/13/2016

· **Product Identifier**
· **Trade Name: EP1282 Black B**
· **Application of the Substance or Mixture:** Epoxy Hardener

· **Details of the Supplier of the Safety Data Sheet (SDS)**
· **Manufacturer or Supplier:**
Resinlab, LLC
N109 W13300 Ellsworth Drive,
Germantown, WI 53022
1-800-388-8605
www.resinlab.com
· **Information Department:** Product Safety Department: msds@resinlab.com
· **Emergency Telephone Number:**
North America - Chemtrec: 1-800-424-9300 (24 hours)
International - Chemtrec: 01-703-527-3887 (24 hours)

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2 Hazard(s) identification

· **Hazard Classification**
Skin Corr. 1C H314 Causes severe skin burns and eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.

· **Label Elements**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Pictogram(s)**

GHS05 GHS07 GHS08

· **Signal Word** Danger

· **Hazard-determining Component(s)**
Poly(oxypropylene)diamine
Polyamide CAS not available per 29CFR1910.1200(i)
Bisphenol A
Amino ether -CAS withheld per 29CFR1910.1200(i).
· **Hazard statements**
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child.

· **Precautionary statements**
Do not breathe dusts or mists.
Wear protective gloves / eye protection / face protection.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazard Rating System**
· **NFPA System**
· **NFPA Ratings (scale 0 - 4)**

Health = 3
Fire = 1
Reactivity = 0

NFPA special hazards (water reactivity and oxidizing property): None

· **HMIS System**
· **HMIS Ratings (scale 0 - 4)**

Health = *3
Fire = 1
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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3 Composition/information on ingredients

· **Chemical Characterization: Mixtures**

· **Composition/Information on Ingredients**		
	Polyamide CAS not available per 29CFR1910.1200(i) Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	50-60%
CAS: 9046-10-0	Poly(oxypropylene)diamine Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Chronic 2, H411 Aquatic Acute 3, H402	25-30%
	Amino ether -CAS withheld per 29CFR1910.1200(i). Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	5-<10%
CAS: 80-05-7 EINECS: 201-245-8 Index Number: 604-030-00-0 RTECS: SL 6300000	Bisphenol A Repr. 2, H361 Eye Dam. 1, H318 Skin Sens. 1, H317; STOT SE 3, H335	5-<10%

· **Classification System:**
The Classifications were based on the Toxicological and Ecological Data of the substances/mixtures in the Section 11 and 12.

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4 First-aid measures

· **Description of First Aid Measures**

· **General Information**
Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

· **After Inhalation**
Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air; consult doctor in case of complaints.

· **After Skin Contact**
Immediately remove all contaminated clothing and put them in a tightly sealed bag.
Immediately wash contaminated skin with water and soap and rinse them thoroughly.
Get medical attention

· **After Eye Contact**
Immediately rinse opened eyes for at least 15 minutes under running water.
Immediately remove contact lenses if present. Continue rinsing.
Do not put any ointments, oils or medication in eyes without specific instructions.
Seek medical advice.

· **After Swallowing**
If victim is unconscious; never give anything by mouth.
Do NOT induce vomiting.
If victim is conscious, rinse out mouth with water.
Seek medical treatment in case of complaints.
If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration of liquid into lungs.

· **Additional Information**
For additional information, please consult the corresponding first aid measures in the most current version of Emergency Response Guidebook which is produced by the US Department of Transportation.

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5 Fire-fighting measures

· **Extinguishing Media**

· **Suitable Extinguishing Agent(s)**
Use fire fighting measures and extinguishing agents that suit the environment.
In case of fire, suitable extinguishing agents are:
Alcohol resistant foam.
Dry chemical or fire-extinguishing powder.
Carbon dioxide (CO_2).
Water spray or water fog.

· **Unsuitable Extinguishing Agent(s)** Water with full jet

· **Firefighting Procedures**
Isolate fire and deny unnecessary entry.
Eliminate all ignition sources if safe to do so.
Do not extinguish fire unless flow can be stopped.
Fight fire remotely due to the risk of explosion.
Use water spray or water fog to cool fire-exposed containers.
Burning liquids may be moved by flushing with water; protect personnel and minimize property damage.
Contain fire water runoff if possible to prevent environmental pollution.

· **Special Hazards Arising in Fire**
In case of fire, following can be released:
ammonia
nitric acid
May generate ammonia gas.
Noxious fumes.
Carbon oxides, Nitrogen oxides, and Hydrogen if mixed with metals.

· **Advice for Firefighters**
If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).

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As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

· **Additional Information** Ensure adequate and functional fire fighting facilities equipped in working area at all times.

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6 Accidental release measures

· **Personal Precautions**
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.

· **Environmental Precautions**
Keep away from sewage system or other water courses; do not penetrate ground/soil.
Inform respective authorities in case of any seepage to the environment.

· **Cleaning Up Methods**
Ensure adequate ventilation.
Eliminate all ignition sources.
Keep unauthorized personnel away.
Absorb residues with liquid-binding materials.
Ventilate and wash area after clean-up is complete.
Collect spills in suitable and properly labeled containers.
Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.
Dispose contaminated chemicals as waste according to Section 13.

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7 Handling and storage

· **Handling**
· **Precautions for Safe Handling**
Avoid any body contact of containers or contents unless wearing appropriate personal protective equipment.
Keep away from incompatible material(s).
Avoid any release into the environment.
Observe all the personal protection requirements in Section 8.
· **Information about Protection Against Explosions and Fires**
Will not burn unless preheated.
Keep away from heat, sparks, open flame and other ignition sources during handling.

· **Storage**
· **Requirements to be Met by Storerooms and Receptacles**
Store in a well-ventilated place; provide ventilation for receptacles.
Keep stored in accordance with local, regional, national, and international regulations.
· **Information about Storage in One Common Storage Facility**
Store away from incompatible material(s).
Store away from foodstuffs.
Avoid release to the environment.

· **Additional Information** No further relevant information.

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8 Exposure controls/personal protection

· **Engineering Measures or Controls**
· **Exposure Limit Values that Require Monitoring at the Workplace**
The substance/mixture does not contain any relevant quantities of substances with critical values that have to be monitored at the workplace.
· **Other Engineering Measures or Controls**
Ventilation rates should be matched to conditions.
If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

· **Personal Protective**
· **General Protective and Hygienic Measures**
Avoid any contact with skin or eye.
Do not eat, drink or smoke during work.
Clean hands and exposed skin thoroughly after work and before breaks.

· **Personal Protective Equipment (PPE)**
· **Breathing Equipment**
Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.
Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator.
Observe OSHA regulations (29CFR 1910.134) for respirator use.
· **Hand Protection**
Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation.
Suggested glove type(s):
Nitrile Gloves
Butyl Rubber Gloves
· **Eye Protection**
tightly sealed goggles
tightly sealed goggles and face shields if the potential for splashing occurs.
· **Body Protection** Protective clothing should be selected to cover as much of the exposed skin area as possible.

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· **Additional Information**
The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

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9 Physical and chemical properties

· **Information on Basic Physical and Chemical Properties**
· **Appearance:**
· **Form:** Liquid
· **Color:** Amber
· **Odor:** Amine-like
· **Odor Threshold:** Not determined.

· **PH-Value at 20 °C (68 °F):** >11 (Estimated)

· **Change in Condition:**
· **Melting Point:** Not determined.
· **Boiling Point:** Not determined.
· **Flash Point:** > 93 °C (> 199 °F) (Estimated)
· **Decomposition Temperature:** Not determined.
· **Flammability:** Not determined.
· **Explosion:** Not determined.
· **Explosion Limits:**
· **Lower:** Not determined.
· **Upper:** Not determined.

· **Vapor Pressure:** 38.7 hPa (29 mm Hg)
· **Vapor Density:** not determined
· **Density at 25 °C (77 °F):** 0.98 g/cm³ (8.178 lbs/gal)
· **Solubility in or Miscibility with**
· **Water:** Soluble.
· **Viscosity:**
· **Dynamic at 20 °C (68 °F):** 2000 mPas
· **Kinematic:** Not determined.

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10 Stability and reactivity

· **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.
· **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
· **Thermal Decomposition and Conditions to be Avoided**
Keep away from incompatible material(s).
Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.
· **Possibility of Other Hazardous Reaction(s)** May react with strong reducing agents generating flammable hydrogen (H_2).
· **Incompatible Material(s)**
Halogens
Acid halides
Isocyanates
Acids
Strong oxidizing agent
· **Hazardous Decomposition Product(s)**
Ammonia (NH_3) and/or Amines.
Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.
· **Hazardous Polymerization Product(s)** No relevant information.

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11 Toxicological information

· **Acute Toxicity**

· **Oral**		
9046-10-0 Poly(oxypropylene)diamine		
Oral	LD50	2885 mg/kg (rat) (similar to OECD guideline 401) Reference: Vendor SDS (2015).
Amino ether -CAS withheld per 29CFR1910.1200(i).		
Oral	LD50	4310 mg/kg (rat)
80-05-7 Bisphenol A		
Oral	LD50	3300 mg/kg (Rats and Mice) (female rats; EPA method) Reference: IUCLID Dataset (2000) and ECHA (2011).

· **Potential Health Effect(s):**
If swallowed, may cause:
diarrhea
shock or collapse
abnormal pain, headache, nausea, vomiting, drowsiness
See acute inhalative effect(s) for further information

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· **Dermal**

9046-10-0 Poly(oxypropylene)diamine		
Dermal	LD50	2980 mg/kg (rabbit) (similar to OECD guideline 402) Reference: Vendor SDS (2015).
Amino ether -CAS withheld per 29CFR1910.1200(i).		
Dermal	LD50	2510 mg/kg (rat)
80-05-7 Bisphenol A		
Dermal	LD50	3000 mg/kg (rabbit) (3 out of 15 treated rabbits died at 2000 mg/kg) Reference: IUCLID Dataset (2000).

· **Potential Health Effect(s):**
No further relevant information available; classification is not possible.
See acute inhalative effect(s) for further information.

· **Inhalative**

9046-10-0 Poly(oxypropylene)diamine		
Inhalative	LC50/4 h	no mortality mg/l (rat) (Exposure Time 8h) No mortality was observed over an 8 hour exposure period. Reference: Vendor SDS 2015
80-05-7 Bisphenol A		
Inhalative	LC50/4 h	(rat) (LC0 > 0.17 mg/l: no death occurred) Reference: ECHA (2011).

· **Potential Health Effect(s):**
While not possible to classify the acute inhalative hazard due to missing data, the product may cause the following symptom(s):
cough
nasal discharge
sneezing
sore throat
wheezing

· **Skin Corrosion or Irritation**

Polyamide CAS not available per 29CFR1910.1200(i)	
Corrosion/Irritation	moderate (Test species: n/a)
9046-10-0 Poly(oxypropylene)diamine	
Corrosion/Irritation	corrosive (rabbit) (similar to OECD guideline 404) Reference: Vendor SDS 2015
80-05-7 Bisphenol A	
Corrosion/Irritation	not irritating (rabbit) (OECD TG 404) The substance was not classified as irritating to skin.Reference: ECHA (2011).

· **Potential Health Effect(s):**
Causes severe skin burns and eye damage.
In contact with skin, may cause:
redness, pain and severe skin burns

· **Eye Serious Damage or Irritation**

Polyamide CAS not available per 29CFR1910.1200(i)	
Damage/Irritation	moderate (Test species: n/a)
9046-10-0 Poly(oxypropylene)diamine	
Damage/Irritation	serious damage (rabbit) (similar to OECD Guideline 405) Reference: Vendor SDS 2015.
80-05-7 Bisphenol A	
Damage/Irritation	serious damage (rabbit) (OECD TG 405) The substance was classified as a serious eye irritant (Category 1) based on the classification criteria.Reference: ECHA (2011).

· **Potential Health Effect(s):**
Causes serious eye damage.
In contact with eye, may cause:
decrease or loss of vision
redness, pain and severe deep burns

· **Respiratory or Skin Sensitization**

9046-10-0 Poly(oxypropylene)diamine		
	Respiratory	(No data available)
80-05-7 Bisphenol A		
Sensitization	Skin	sensitizing (Human) (Patch Test) For safety reasons, the substance was classified as a dermal sensitizer (Category 1).Reference: ECHA (2011) and IUCLID Dataset (2000).
	Respiratory	(No data available)

· **Potential Health Effect(s):**
May cause an allergic skin reaction.
Repeated skin contact may cause dermatitis, skin rash or itchiness.
No relevant information for respiratory sensitization; classification is not possible.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Germ Cell Mutagenicity**

9046-10-0 Poly(oxypropylene)diamine	
Mutagenicity	(No data available)
80-05-7 Bisphenol A	
Mutagenicity	negative (salmonella typhimurium) (In Vitro (Ames tests))

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	negative (mouse) (In Vivo (Micronucleus assay)) When considering all of the evidence, the substance was not classified as a mutagen.Reference: CCRIS (2011).

· **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Carcinogenicity**	
Polyamide CAS not available per 29CFR1910.1200(i)	
Carcinogenicity	(Test species: n/a) This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater
9046-10-0 Poly(oxypropylene)diamine	
Carcinogenicity	negative (Test species: n/a) (not listed as a Carcinogen by NTP, IARC or OSHA)
Amino ether -CAS withheld per 29CFR1910.1200(i).	
Carcinogenicity	(Test species: n/a) This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater
80-05-7 Bisphenol A	
Carcinogenicity	negative (mouse) (no carcinogenic effect with 1mg/kg/d for life-time) When considering all of the evidence, the substance was not classified as a carcinogen. Reference: CCRIS (2011) and IUCLID Dataset (2000).

· **Potential Health Effect(s):** Not a known Carcinogen.

· **Reproductive Toxicity**	
9046-10-0 Poly(oxypropylene)diamine	
Reproductive Toxi.	not impairing (Test species listed below) (OECD 421/422) The results of animal studies gave no indication of a fertility impairing effect. The results were determined in a Screening Test. Reference: Vendor SDS 2015
80-05-7 Bisphenol A	
Reproductive Toxi.	N/A (Rats and Mice) Suspected of damaging fertility or the unborn child.RTECS contains reproductive data for this substance.

· **Potential Health Effect(s):** Suspected of damaging fertility or the unborn child.

· **Specific Target Organ Toxicity - Single Exposure**	
9046-10-0 Poly(oxypropylene)diamine	
STOT-Single	(No data available)
80-05-7 Bisphenol A	
STOT-Single	(rat) (Respiratory tract irritation via inhalation) Reference: IUCLID Dataset (2000).

· **Potential Health Effect(s):**
No further relevant information; classification is not possible.
Some target organs may be exclusive due to low concentration of the hazardous component(s).

· **Specific Target Organ Toxicity - Repeated Exposure**	
9046-10-0 Poly(oxypropylene)diamine	
STOT-Repeated	(No data available)
80-05-7 Bisphenol A	
STOT-Repeated	Target: N/A (rat) (conclusive but not sufficient for classification) ECHA concluded subtance data as conclusive but not sufficient for classification.Reference: ECHA (2011).

· **Potential Health Effect(s):** No further relevant information; classification is not possible.

· **Aspiration Hazard**	
9046-10-0 Poly(oxypropylene)diamine	
Aspiration Hazard	(No data available)
80-05-7 Bisphenol A	
Aspiration Hazard	(No data available)

· **Potential Health Effect(s):** No relevant information; classification is not possible.

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12 Ecological information

· **Aquatic Environmental Toxicity**	
9046-10-0 Poly(oxypropylene)diamine	
Algae Toxicity	(No data available)
Crustacean Toxicity (static)	80 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs), OECD TG 202,part 1) The details of the toxic effect relate to nominal concentration. Reference: Vendor SDS 2015
Fish Toxicity	>15 mg/l (Oncorhynchus mykiss (Rainbow trout)) (LC50 (96 hrs), OECD TG 203;semistatic) Reference: Vendor SDS (2015). Limit concentration test only. The details of the toxic effect relate to nominal concentration.
80-05-7 Bisphenol A	
Algae Toxicity	2.7-3.1 mg/l (Pseudokirchneriella subcapitata) (EC50 (96 hrs), EPA 600/9-78-018)
Crustacean Toxicity	10.2 mg/l (Daphnia magna (water flea)) (EC50 (48 hrs), ASTM E729-80) 1.1 mg/L (Mysidopsis bahia) (LC50 (96 hrs); method not specified)> 3.2 mg/L (daphnia magna) (NOEC (21 days); OECD TG 202)
Fish Toxicity	4.6 mg/l (Pimephales promelas (fathead minnow)) (LC50 (96 hrs), ASTM E729-80) Based on the rapid degradability, the substance is not classified as a chronic environment hazard. Based on acute LC50 < 10 mg/l, the substance is classified as an Acute-2 environmental hazard.Reference: IUCLID Dataset (2000) and OECD SIAM (2002).

· **Aquatic Environmental Toxicity Assessment:** Harmful to aquatic life with long lasting effects.

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· **Degradability and Stability**

9046-10-0 Poly(oxypropylene)diamine

Biodegradation	non-biodegrad. (Activated Sludge) (Biodegradation (OECD TG 301A; 28 days) = 10%) Reference: BASF (M)SDS (2006).
Persistence	(Test species: n/a) (This substance is not persistent) Reference: Canada DSL (2007).
Photodegradation	(Test species: n/a) (Indirect photolysis) t1/2 (Indirect photolysis) 1.6h; OH radical After evaporation or exposure to the air; the product will be rapidly degraded by photochemical processes. Reference: Vendor SDS 2015
Stability in water	(No data available) In contact with water the substance will hydrolyse slowly. Reference: Vendor SDS 2015

80-05-7 Bisphenol A

Biodegradation	readily biodeg. (Test species: n/a) (Biodegradation (OECD TG 301F)≥89%) It was determined to be readily biodegradable.Reference: CHRIP (2011).
Persistence	(Test species: n/a) (The substance is not persistent) Reference: ACToR (2011).
Photodegradation	8.06E-11 cm³/molecule-sec (Test species: n/a) Reference: ChemID (2011).
Stability in water	(No data available)

· **Bioaccumulation and Distribution**

9046-10-0 Poly(oxypropylene)diamine

BCF	(No data available)
Koc	(No data available)
LogPow	-0.09 (Test species: n/a) (The substance is not bioaccumulative) Reference: BASF (M)SDS.

80-05-7 Bisphenol A

BCF	5.1-67.7 (Cyprinus carpio) (The substance is not highly bioaccumulative) Reference: CHRIP (2011).
Koc	(No data available)
LogPow	3.4 (Test species: n/a) (OECD TG 107) Reference: ECHA (2011).

· **Degradability and Bioaccumulation Assessment:** Non-rapidly degradable, and low bioaccumulative.

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13 Disposal considerations

· **Hazardous Waste List**
· **Description:** It may be necessary to contain and dispose of the substance/mixture as a hazardous waste.
· **Waste Treatment Recommendation:**
Generation of waste should be avoided or minimized wherever possible.
Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.
Dispose of contents/containers in accordance with local, regional, national, and international regulations.

· **Unused and Uncontaminated Packagings**
· **Recommendation** Dispose of according to your local waste regulations.

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14 Transport information

· **UN-Number**
· **DOT, ADR, IMDG, IATA** UN2735

· **UN Proper Shipping Name**
· **DOT, ADR, IMDG, IATA** Amines, liquid, corrosive, n.o.s. (3,3'-oxybis(ethyleneoxy) bis(propylamine))

· **Transport hazard class(es)**

· **DOT**

· **Class** 8 Corrosive substances
· **Label** 8

· **ADR**

· **Class** 8 (C7) Corrosive substances

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· **Label** 8

· **IMDG**

· **Class** 8 Corrosive substances
· **Label** 8

· **IATA**

· **Class** 8 Corrosive substances
· **Label** 8

· **Packing group**
· **DOT, ADR, IMDG, IATA** III

· **Environmental Hazards:**
· **Marine Pollutant:** Yes (DOT)
Symbol (fish and tree)
· **Special Marking (ADR):** Symbol (fish and tree)

· **Special Precautions:** Warning: Corrosive substances
· **Danger Code (Kemler):** 80
· **EMS Number:** F-A,S-B

· **Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional Information:**

· **DOT**
· **Quantity limitations** On passenger aircraft/rail:
On cargo aircraft only:
· **Remarks:** Special marking with the symbol (fish and tree).

· **ADR**
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **IMDG**
· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN2735, Amines, liquid, corrosive, n.o.s. (3,3'-oxybis(ethyleneoxy) bis(propylamine)), 8, III

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15 Regulatory information

· **USA Regulation Lists**
· **SARA (Superfund Amendments and Reauthorization Act of 1986)**

· **Section 302 (Extremely Hazardous Substances)**

None of the ingredients is listed.

· **Section 313 (Toxics Release Inventory (TRI) reporting)**

80-05-7	Bisphenol A	5-<10%

· **Section 311/312 (Hazardous Chemical Inventory Reporting)**

9046-10-0	Poly(oxypropylene)diamine	A	25-30%
80-05-7	Bisphenol A	A, C	5-<10%

· **Hazard Abbreviations for SARA 311/312**
A - Acute Health Hazard
C - Chronic Health Hazard
F - Fire Hazard
R - Reactive Hazard
S - Sudden Release of Pressure Hazard

· **TSCA (Toxic Substances Control Act)**

9046-10-0	Poly(oxypropylene)diamine
80-05-7	Bisphenol A

· **Proposition 65**

· **Chemicals Known to Cause Cancer**

None of the ingredients is listed.

· **Chemicals Known to Cause Reproductive Toxicity for Females**

None of the ingredients is listed.

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· **Chemicals Known to Cause Reproductive Toxicity for Males**
None of the ingredients is listed.

· **Chemicals Known to Cause Developmental Toxicity**
None of the ingredients is listed.

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value Established by ACGIH)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **International Regulation Lists**

· **Canadian Domestic Substance Listings:**

9046-10-0	Poly(oxypropylene)diamine
80-05-7	Bisphenol A

· **Canadian Ingredient Disclosure list (limit 0.1%)**
None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

80-05-7	Bisphenol A

· **Chinese Chemical Inventory of Existing Chemical Substances:**

9046-10-0	Poly(oxypropylene)diamine
80-05-7	Bisphenol A

· **Japanese Existing and New Chemical Substance List:**

9046-10-0	Poly(oxypropylene)diamine
80-05-7	Bisphenol A

· **Korean Existing Chemical Inventory:**

9046-10-0	Poly(oxypropylene)diamine
80-05-7	Bisphenol A

· **European Pre-registered substances:**

9046-10-0	Poly(oxypropylene)diamine
80-05-7	Bisphenol A

· **REACh - Substances of Very High Concern (SVHC) List:**
None of the ingredients is listed.

· **Restriction of Hazardous Substances Directive (RoHS) list:**
None of the ingredients is listed.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department Issuing (M)SDS:** Product Safety Department
· **Contact:** msds@resinlab.com

· **Abbreviations and acronyms:**
ACGIH: American Conference of Governmental Industrial Hygienists
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CCR: Canadian Categorization Results
DOT: US Department of Transportation
ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH
HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System
IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)
ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)
IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)
LC50/LD50: Lethal Concentration/Dose, 50 percent
N/a: Not available or Not applicable
NFPA: US National Fire Protection Association
NIOSH: US National Institute of Occupational Safety and Health
OSHA: US Occupational Safety and Health Administration
P: Marine Pollutant
RCRA: Resource Conservation and Recovery Act (USA)
REACh: EU Registry, Evaluation and Authorisation of Chemicals
SARA: US Superfund Amendments and Reauthorization Act
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)
TSCA: US Toxic Substance Control Act
ACToR: US EPA Aggregated Computational Toxicology Resource

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BCF: Bioconcentration Factor
CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System
CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform
DSL: Canada Domestic Substance List
ESIS: European Chemical Substances Information System
HSDB: US NLM TOXNET Hazardous Substances Databank
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)
ICSC: International Chemical Safety Cards
Koc: Partition coefficient, soil Organic Carbon to water
NITE: National Institute of Technology and Evaluation, Japan
OECD: Organisation for Economic Co-operation and Development
RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)
RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)
RTECS: US Registry of Toxic Effects of Chemical Substances
SIDS: OECD existing chemicals Screening Information Data Sets
SVHC: EU ECHA Substance of Very High Concern
TOXLINE: US NLM bibliographic database search system
ChemID (Full Record): US NLM Chemical Information Database (or its Full Record) designed to help search for information by chemical name or structure
SIDS SIAM(R): SIDS Initial Assessment Meetings(Reports)
· **Date of preparation / last revision** *06/13/2016 / 6*