

# Safety Data Sheet



## Epoxy Prime Base – PART A

### 1. IDENTIFICATION

24 HOUR EMERGENCY ASSISTANCE	MANUFACTURER/GENERAL MSDS ASSISTANCE
CHEM-TEL 1-800-255-3924	<b>ONYX CONCRETE COATINGS</b> Tel.: (888)-497-3872 1610 E. Miraloma Ave. Placentia, CA 92870

**PRODUCT IDENTIFIER/NAME:** Epoxy Prime Base – PART A  
**RECOMMENDED USE:** Chemical intermediate for epoxy

### 2. HAZARD(S) IDENTIFICATION

#### HAZARD CLASSIFICATION:

Acute Oral Toxicity Category 5  
Skin Irritation Category 2  
Skin Sensitizer Category 1  
Germ Cell Mutagenicity Category 2

#### NFPA ratings (scale 0 – 4):

HEALTH	1
FIRE	2
REACTIVITY	0
SPECIAL	-

#### NFPA HAZARD RATING:

4= EXTREME    2= MODERATE    0= INSIGNIFICANT  
3= HIGH        1= SLIGHT



#### HAZARD PICTOGRAMS:

**SIGNAL WORD:** Warning

**PHYSICAL APPEARANCE:** Clear to milky colored liquid with faint epoxy odor

#### HAZARD STATEMENTS:

**EYE:** Minor transient irritation. No corneal injury likely.

**SKIN CONTACT:** May cause allergic skin reaction in susceptible individuals. Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation.

**SKIN ABSORPTION:** A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD<sub>50</sub> for skin absorption in rabbits is 20,000 mg/kg.

**INGESTION:** Low acute oral toxicity; LD<sub>50</sub> (rat) greater than 4000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.

**INHALATION:** Vapors are unlikely due to physical properties. Not a problem unless heated to high temperature.

**SYSTEMIC AND OTHER EFFECTS:** Except for skin sensitization, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects. A poorly characterized sample of low molecular weight epoxy resin of this type has been reported to produce skin cancer in a highly sensitive strain of mice. However, high levels of impurities compromise the validity of the findings. Epoxy resin that is representative of current manufacturing processes is not believed to be a cancer hazard to humans. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some in vitro mutagenicity tests and positive in others.

**PRECAUTIONARY STATEMENTS:** Use personal protective equipment as required to minimize repeated skin exposure. Wash thoroughly after handling. If skin irritation or rash occurs: Wash with plenty of soap and water and avoid repeated exposure. IF ON SKIN: Wash with plenty of soap and water.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Reaction products of Epichlorohydrin and Bisphenol A</i>	(CAS 25085-99-8)	> 90%
<i>Alkyl Glycidyl Ether</i>	(CAS 68609-97-2)	>10%
<i>Dipropylene glycol monomethyl ether acetate</i>	(CAS 88917-22-0)	> 7%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not Hazardous per this OSHA Standard may be listed. Where proprietary Ingredient shows, the identity may be made available as provided in this standard.

### 4. FIRST AID MEASURES

**EYES:** Irrigation of the eye immediately with water for fifteen minutes is a good safety practice.

**SKIN:** Contact will probably cause no more than irritation. Wash off in flowing water or shower. Wash clothing before reuse.

**INGESTION:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended

**INHALATION:** If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

**NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

### 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** 186°F

**METHOD USED:** Seta CC

**SUITABLE EXTRINGUISHING MEDIA:** Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray, Alcohol-resistant foam

**HAZARDOUS COMBUSTION MEDIA:** Carbon dioxide and carbon monoxide, Hydrocarbons

**PRECAUTION FOR FIRE FIGHTING:** If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and are ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb

unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

**ENVIRONMENTAL PRECAUTIONS:** Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

**METHODS FOR CLEANING UP:** Absorb liquid on vermiculite, floor absorbent or other absorbent material.

## 7. HANDLING AND STORAGE

**HANDLING:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

**STORAGE:** Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These recommendations provide general guidance for handling this product.

Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**EXPOSURE CONTROL:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

**VENTILATION:** Good room ventilation usually adequate for most operations.

**RESPIRATORY PROTECTION:** If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist).

Engineering or administrative controls should be implemented to reduce exposure.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

**EYE PROTECTION:** Use chemical goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** Not applicable

**VAP PRESS:** Not applicable

**VAP DENSITY:** Not applicable

**SOL. IN WATER:** None

**SP. GRAVITY:** 1.12-1.14

**APPEARANCE:** Straw colored liquid.

**ODOR:** Faint epoxy odor

## 10. STABILITY AND REACTIVITY

**STABILITY: (CONDITIONS TO AVOID)** Excess heating over long periods of time degrade the resin.

**INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID)** Base.

**HAZARDOUS DECOMPOSITION PRODUCTS:** The by-products expected in incomplete pyrolysis or combustion of epoxy resins is mainly phenolics, carbon monoxide and water. The thermal decomposition products of epoxy resins therefore should be treated as potentially hazardous substances, and appropriate precautions should be taken.

**HAZARDOUS POLYMERIZATION:** Will not occur by itself but masses more than 1 pound of product plus aliphatic amine will cause irreversible polymerization with considerable heat buildup.

## 11. TOXICOLOGICAL INFORMATION

**Acute oral toxicity**

DIPROPYLENE GLYCOL MONOMETHYL  
ETHER ACETATE LD 50 Rat: > 5,000 mg/kg

**Acute inhalation toxicity**

DIPROPYLENE GLYCOL MONOMETHYL  
ETHER ACETATE no data available

**Acute dermal toxicity**

DIPROPYLENE GLYCOL MONOMETHYL  
ETHER ACETATE LD 50 Rabbit: > 5,000 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity: No Data Available**

**Environmental Fate: No Data Available**

**Bioaccumulation: No Data Available**

**Biodegradation: No Date Available**

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

**14. TRANSPORT INFORMATION**

**Transportation Emergency Number** 1-800-255-3924 CHEM-TEL

**D.O.T. Shipping Name: Not Regulated by D.O.T.**

**15. REGULATORY INFORMATION**

**STATUS ON SUBSTANCE LISTS:**

The concentrations shown in this document are maximum or ceiling levels (expressed in weight %, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

**SUPERFUND AMENDMENTS and REAUTHORIZATION ACT of 1986 (SARA) TITLE III:**

**Sections 301-304** require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute are:

Chemical Name	CAS Number	% By Weight
<b>NONE</b>		

**Sections 311-312** require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

**EPA HAZARD CLASSIFICATIONS:**

Acute	Chronic	Fire	Pressure	Reactive
Hazard	Hazard	Hazard	Hazard	Hazard
<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

**Section 313** requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name

CAS Number

% By Weight

**NONE**

If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449.

**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

The components of this product are contained on the chemical substance inventory list.

**16. OTHER INFORMATION**

**Date Revised: 05/06/2015**

**MANUFACTURER'S NAME AND ADDRESS:**

**ONYX CONCRETE COATINGS**

**1610 E. Miraloma Ave.**

**Placentia, CA 92870**

**Telephone: 888-497-3872**

The information herein is given in good faith, but no warranty expressed or implied is made. Onyx Concrete Coatings urges users of this product to evaluate its suitability and compliance with local regulations as Onyx cannot foresee the nature of the final application or final location of usage.

# Safety Data Sheet



## Epoxy Prime Base – PART B

### 1 Identification of the substance/mixture and of the company/undertaking

24 HOUR EMERGENCY ASSISTANCE	MANUFACTURER/GENERAL MSDS ASSISTANCE
CHEM-TEL 1-800-255-3924	<b>ONYX CONCRETE COATINGS</b> Tel.: (714)-572-6723 1620 E. Miraloma Ave. Placentia, CA 92870

**PRODUCT IDENTIFIER/NAME:** Epoxy Prime Base – PART B  
**RECOMMENDED USE:** Curing agent for epoxy

### 2 Hazards identification

#### Hazard Classification

##### Health Hazards

Acute toxicity (oral),	Category 4.
Skin corrosion,	Category 1B.
Serious eye damage,	Category 1
Skin sensitization,	Category 1.
Specific Target Organ Toxicity Repeated Exposure (Oral)	Category 2

#### NFPA ratings (scale 0 – 4):

HEALTH	3
FIRE	1
REACTIVITY	0

#### NFPA HAZARD RATING:

4= EXTREME 3= HIGH 2= MODERATE 1= SLIGHT 0= INSIGNIFICANT

#### Label elements Hazard pictograms:



**Signal word:** Danger

#### Hazard statements:

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- May cause damage to organs through prolonged or repeated exposure if swallowed.

#### Precautionary statements:

**Prevention:** Do not breath dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling.

**Response:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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 skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Disposal:** Dispose of contents/ container to an approved waste disposal plant.

**Hazard(s) not otherwise classified (HNOC):** None

### 3 Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
4,4'-Methvlenebist'cvclohexvlaminal	1761-71-3	>10%
Banz11l alcohol	100-51-6	>25%
, 1,3-Cyclohexanadimathanamine	2579-20-6	>10%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** The remaining components are trade secret. The exact concentration has been withheld as a trade secret.

### 4 First aid measures

**General information:** Seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

**Inhalation:** Move to fresh air

**Skin Contact:** Wash off immediately with soap and plenty of water. Immediately remove contaminated clothing, and any extraneous chemical, if possible, to do so without delay. Flush immediately with copious amounts of water. Initiate and maintain continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing.

**Eye contact:** Rinse immediately **with** plenty of water for at least 15 minutes. Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour

**Ingestion:** Prevent aspiration of vomit. Turn victim's head to the side. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**Personal Protection for First- aid Responders:**

Use personal protective equipment., Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin., A face shield should be worn.

### Most important symptoms/effects, acute and delayed

**Symptoms:** Up to now no symptoms are known.

**Hazards:** No data available.

### Indication of immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically.

## 5 Firefighting measures

**General Fire Hazards:** Do not allow run-off from firefighting to enter drains or water courses. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Carbon Dioxide. Dry chemical. Dry sand. Limestone powder Alcohol resistant foam.

**Unsuitable extinguishing media:** No data available.

### Specific hazards arising from the chemical:

Ammonia gas may be liberated at high temperatures. In case of incomplete combustion an increased formation of oxides of nitrogen (**NOx**) is to be expected. Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Use personal protective equipment. Wear self-contained breathing apparatus for firefighting if necessary. Avoid contact with skin. A face shield should be worn.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

Evacuate personnel to safe areas. Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing.

**Accidental release measures:** If possible, stop flow of product.

### Methods and material for

**containment and cleaning up:** Place in appropriate chemical waste container. Call Emergency Response number for advice. Approach suspected leak areas with caution.

**Environmental Precautions:** Construct a dike to prevent spreading.

## 7 Handling and storage

### Handling

### Technical measures (e.g., Local and general ventilation):

Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure



concentrations are kept below exposure limits

**Safe handling advice:** Use personal protective equipment. Discard contaminated leather articles. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash hands at the end of each work shift and before eating, smoking or using the toilet. Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations.

**Contact avoidance measures:** No data available.

**Hygiene measures:** Provide readily accessible eye wash stations and safety showers.

#### Storage

**Safe storage conditions:** Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Safe packaging materials:** No data available.

### 8 Exposure controls/personal protection

#### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Benzyl alcohol	ST ESL	440 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	AN ESL	10 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	ST ESL	100 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	AN ESL	44 µg/m <sup>3</sup>	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (06 2018)
	TWA	10 ppm 44.20 mg/m <sup>3</sup>	US. OARS. WEELs Workplace Environmental Exposure Level Guide (02 2016)

Hazardous components without workplace control parameters

**Appropriate Engineering Controls:** Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

:

#### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Full face shield with goggles underneath.

#### Skin Protection Hand Protection:

Additional Information: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Additional Information: Butyl rubber., Nitrile rubber., Neoprene gloves, PVC disposable gloves, Impervious gloves

**Skin and Body Protection:** No specific recommendations. Slicker Suit. Impervious clothing Full rubber suit (rain gear). Rubber or plastic boots

**Respiratory Protection:** Not required for properly ventilated areas. Not required for properly ventilated areas.

**Hygiene measures:** Provide readily accessible eye wash stations and safety showers.

## 9 Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Clear to straw colored
<b>Odor:</b>	No data available
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available
<b>Freezing point:</b>	-10 °C
<b>Boiling Point:</b>	210 °C
<b>Flash Point:</b>	102 °C
<b>Evaporation Rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Explosive limit - upper(%):</b>	No data available
<b>Explosive limit - lower(%):</b>	No data available
<b>Vapor pressure:</b>	1.07hPa (21 11 °C)
<b>Vapor density (air=1):</b>	No data available
<b>Density:</b>	No data available
<b>Relative density:</b>	No data available
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	No data available
<b>Solubility (other):</b>	No data available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Self Ignition Temperature:</b>	No data available
<b>Decomposition Temperature:</b>	No data available
<b>Kinematic viscosity:</b>	No data available
<b>Dynamic viscosity:</b>	80 mPa.s (21.1"i °C)
<b>Other information</b>	
<b>Explosive properties:</b>	No data available
<b>Oxidizing properties:</b>	No data available

## 10 Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions"
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	Reactive metals (e.g., sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. CAUTION! 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 other nitrosating agents, Organic acids (i.e., acetic acid, citric acid etc.). Mineral Acid Sodium hypochlorite. Product slowly corrodes copper,

aluminum, zinc and galvanized surfaces. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. Oxidizing agents.

**Hazardous Decomposition Products:**

Nitric acid. Ammonia Nitrogen Oxides Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon Monoxide. Carbon Dioxide. Aldehydes. Flammable hydrocarbon fragments. Nitrosamine In case of fire hazardous decomposition products may be produced.

## 11 Toxicological information

### Information on likely routes of exposure

**Inhalation:** No data available.

**Eye Contact:** No data available.

**Ingestion:** No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

**Skin Contact:** No data available.

**Eye Contact:** No data available.

**Ingestion:** No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral, Product: No data is available on the product itself.

Dermal, Product No data is available on the product itself.

Inhalation, Product No data is available on the product itself.

#### Repeated dose toxicity

**Product:** No data available

**Components:**  
4,4'-Methylenebis(cyclohexylamine) May cause damage to organs through prolonged or repeated exposure if swallowed.

#### Skin Corrosion/Irritation

**Product:** No data available

Serious Eye Damage/Eye Irritation  
Product: No data available.

Respiratory or Skin Sensitization  
Product: May cause sensitization of susceptible persons by skin contact.

Carcinogenicity  
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:  
No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:  
No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogens

present or none present in regulated quantities

#### Germ Cell Mutagenicity

In vitro  
Product: No data available.

In vivo  
Product: No data available.

Reproductive toxicity  
Product: No data is available on the product itself.

Specific Target Organ Toxicity - Single Exposure  
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure  
Product: No data available.

Aspiration Hazard  
Product: No data available

Other effects: No data available

## 12 Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

Fish  
Product: No data is available on the product itself.

Aquatic Invertebrates  
Product: No data is available on the product itself.

### Chronic hazards to the aquatic environment:

Fish  
Product: No data available

Aquatic Invertebrates  
Product:

Toxicity to Aquatic Plants  
Product:

### Persistence and Degradability

Biodegradation  
Product: No data available

BOD/COD Ratio  
Product: No data available

**Bioaccumulative potential**  
**Bioconcentration**  
**Factor (BCF)**  
Product: No data available.

**Partition Coefficient n-octanol / water (log Kow)**  
Product: No data available.

### Mobility in soil:

**Components:**

4,4'-Methylenebis(cyclohexylamine)

No data available.

Benzyl alcohol

No data available.

1,3-Cyclohexanedimethanamine

No data available.

**Other adverse effects:**

Do not allow to enter soil, waterways or waste water canal.

**13 Disposal considerations****Waste treatment methods Relevant information:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies.

**14 Transport information**

## Domestic Regulations

**49CFR**

UN/ID/NA number.	UN 2735
Proper shipping name	Amines, liquid, corrosive, n.o.s. (4,4'-Methylenebiscyclohexanamine)
Class	8
Packing group	II
Labels	8
ERG Code	153

Marine pollutant	<del>no</del> marine pollutant	no
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**Remarks**

Keep separated from foodstuffs,  
luxury foods feedstuffs

## International Regulations

**IATA-DGR**

UN/ID No.	UN 2735
Proper shipping name	Amines, liquid, corrosive, n.o.s. (4,4'-Methylenebiscyclohexanamine)
Class	8
Packing group	II
Labels	8
Packing instruction (cargo aircraft)	855
Packing instruction (passenger aircraft)	, 851

**IMDG-Code**

UN number	UN 2735
Proper shipping name	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Methylenebiscyclohexanamine)

Class	8
Packing group	II
Labels	8
EmS Code	F-A, S-B
Marine pollutant	no
Marine pollutant	no
Remarks	Keep separate from acids

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

Not applicable for product as supplied.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**15 Regulatory information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Chemical Identity

OSHA hazard(s)

4,4'-Methylenebis(cyclohexylamine)

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization**

**Act of 1986 (SARA) Hazard categories**

Acute toxicity (any route of exposure), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

**SARA 311/312 Hazardous Chemical**

Chemical Identity

Threshold Planning Quantities

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**

US. California Proposition 65  
No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

US. Massachusetts RTK - Substance List

Benzyl alcohol  
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

US. Pennsylvania RTK • Hazardous Substances

**Benzyl** alcohol  
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-

US. Rhode Island RTK

Chemical Identity

Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl

Inventory Status:

US TSCA Inventory:

Included on Inventory.

EU EINECS List

Included on EINECS inventory or polymer substance, monomers included on EINECS inventory OR no longer polymer.

Canada DSL Inventory List

Not on Inventory.

Australia AICS:

Not on Inventory.

Japan (ENCS) List:

Included on Inventory.

Japan (ENCS) List:

Included on Inventory.

Korea Existing Chemicals Inv.

Included on Inventory

(KECI):

China Inv. Existing Chemical Substances:

Included on Inventory

Philippines PICCS:

Not on Inventory.

## 16 Other information

**Disclaimer:**

This product has been classified in accordance within GHS guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**