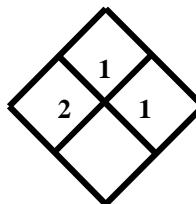


P.O. Box 4980  
The Woodlands, TX 77387-4980

8 am to 5 pm Phone: (800) 257-5547  
24-Hour Emergency Phone: (800) 328-8501  
International Emergency Phone: (409) 727-0831  
Asia Pacific Emergency Phone: (65) 6336-6011

**Effective Date:** 1/19/10**Material Safety Data Sheet**

MSDS No: 61521

**1. PRODUCT IDENTIFICATION****Trade Name:** CG 1305 Resin (LA)**Material Code:** FPC7186**Made In:** U.S.A.**Chemical Family:** Formulated Epoxy Resin**Intended Use or Product Type:** Filled Epoxy Resin

NFPA RATING

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

| O<br>S<br>H<br>A | CAS No.   | CHEMICAL IDENTITY   | EXPOSURE LIMITS |      |      |      | MFR. | CARCINOGEN STATUS |     |      |
|------------------|---|---|-----------------|------|------|------|------|-------------------|-----|------|
|                  |   |   | ACGIH           |      | OSHA |      |      | IARC              | NTP | OSHA |
|                  |   |   | TWA             | STEL | PEL  | STEL |      |                   |     |      |
| *                | 21645-51-2<br>Concentration                     | Aluminum hydroxide (Al(OH) <sub>3</sub> )<br>10.00 - 30.00 % by wt  | NE              | NE   | NE   | NE   | NE   | NR                | NR  | NR   |
|                  | 25068-38-6<br><br>Common Name:<br>Concentration | Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane<br>Bisphenol A epoxy resin<br>30.00 - 60.00 % by wt | NE              | NE   | NE   | NE   | NE   | NR                | NR  | NR   |
|                  | 3101-60-8<br><br>Common Name:<br>Concentration  | Oxirane, [[4-(1,1-dimethylethyl)phenoxy]methyl]-p-tert Butyl Phenyl Glycidyl Ether<br>1.00 - 5.00 % by wt                     | NE              | NE   | NE   | NE   | NE   | NR                | NR  | NR   |
| *                | 65997-17-3<br>Common Name:<br>Concentration     | Glass, oxide, chemicals<br>glass oxide<br>10.00 - 30.00 % by wt   | NE              | NE   | NE   | NE   | NE   | NR                | NR  | NR   |
| *                | Confidential<br>Concentration                   | siloxanes<br>1.00 - 5.00 % by wt  | NE              | NE   | NE   | NE   | NE   | NR                | NR  | NR   |
|                  | 68609-97-2<br><br>Common Name:<br>Concentration | Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.<br>C12 and C14 Alkyl Glycidyl Ethers<br>5.00 - 10.00 % by wt                   | NE              | NE   | NE   | NE   | NE   | NR                | NR  | NR   |

NE = Not Established NR = Not Reviewed \* = OSHA Hazardous Ingredient

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:** WARNING! ! Causes moderate eye irritation and possible eye damage. Causes skin irritation and possible allergic skin reaction. Harmful if inhaled. Harmful if swallowed.

**Primary Route(s) of Entry:** Dermal, inhalation.

**Potential Health Effects:** Vapor or mist can cause irritation to the nose and throat. Liquid or vapor can cause substantial irritation to eyes. Substance can cause moderate irritation. Substance can be possibly harmful if swallowed.

**Chronic:** Prolonged or repeated exposure can cause allergic reaction.

### 4. FIRST AID MEASURES

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes. Seek immediate medical attention.

**Inhalation:** Remove to fresh air. Seek immediate medical attention.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

**Note to Physician:** Allergic dermatitis or respiratory response in susceptible individuals may be delayed. It may appear after weeks or even months of frequent and prolonged contact.

**Medical Conditions Aggravated by Exposure:** Eczema, allergy, skin and/or eye condition, and/or respiratory disease(s)

### 5. FIRE FIGHTING MEASURES

**Flash Point:** > 149°C (> 300 °F) (estimated)

**Flash Point Method Used:** Closed Cup

**Fire Fighting Extinguishing Media:** Carbon dioxide, dry chemical, foam, water.

**Fire Fighting Equipment:** Use self-contained breathing apparatus and full protective clothing.

**Fire and Explosion Hazards:** Keep fire-exposed containers cool with water. Do NOT use a solid stream of water. A solid stream of water can spread fire.

**Hazardous Combustion Products:** Decomposition and combustion products may be toxic.

### 6. ACCIDENTAL RELEASE MEASURES

Effective Date: 1/19/10

**Accidental Release Measures:** Evacuate the spill area. Wear protective clothing. Dike and absorb spill on inert material (sand, earth, etc.). Transfer to containers for disposal. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before re-use. If spilled on a porous surface, ground contamination must be considered.

## **7. HANDLING AND STORAGE**

**Signal Word:** WARNING!

**Precautions:** Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not in use. Use only with adequate ventilation. Do not take internally.

**Other Handling Information:** In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid contact with eyes and prolonged or repeated skin contact. Do not inhale mists. Use with adequate ventilation. For industrial use only.

**Storage Information:** STORAGE TEMPERATURE: 35°C, maximum. Store indoors in a cool, dry area with adequate ventilation.

**Additional Information:** PLEASE READ TECHNICAL DATA SHEET BEFORE HANDLING THE PRODUCT. KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal Protective Equipment:** Eye bath and safety shower should be available. Wear protective clothing.

**Exposure Guidelines:** Wash thoroughly after handling and before eating, drinking, or using tobacco products.

**Skin Protection:** Wear impervious gloves.

**Respiratory Protection:** Wear respirator (MSHA/NIOSH or approved equivalent) suitable for concentrations and type of air contaminants encountered.

**Eye Protection:** Wear splash-proof chemical goggles.

**Engineering Controls:** Good general mechanical ventilation and local exhaust.

**Emergency Response Protection:** Wear breathing apparatus (MSHA/NIOSH-approved, pressure demand, self-contained or equivalent) and full protective gear.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

|                             |                           |
|-----------------------------|---------------------------|
| <b>Appearance:</b>          | Liquid                    |
| <b>Color:</b>               | Milky white               |
| <b>Odor:</b>                | No Odor                   |
| <b>Solubility in Water:</b> | Negligible                |
| <b>Viscosity:</b>           | 90000 cps at 20°C (68 °F) |
| <b>Specific Gravity:</b>    | 0.78 - 0.85 (Water =1)    |
| <b>Evaporation Rate:</b>    | < 1 (Butyl Acetate = 1)   |
| <b>VOC:</b>                 | Negligible                |

Effective Date: 1/19/10

**10. STABILITY AND REACTIVITY****Conditions to Avoid:** Elevated temperatures, mineral acids, bases, amines**Stability:** Stable under normal conditions.**11. TOXICOLOGICAL INFORMATION****Sensitization:** May cause allergic skin reaction and sensitization.**Skin Irritation:** Moderate irritant.**Eye Irritation:** Moderate - severe.**12. ECOLOGICAL INFORMATION****Biodegradability:** No information available.**Ecotoxicity:** No information available.**13. DISPOSAL CONSIDERATIONS****Waste Disposal Method:** Incinerate liquid; landfill or incinerate contaminated diking material in accordance with local, state, and federal regulations.**14. TRANSPORT INFORMATION****DOT: Non-Bulk**

|   |   |
|---|---|
| <b>Proper Shipping Name:</b>                | Environmentally hazardous substance, liquid, n.o.s. |
| <b>Technical Shipping Name (If n.o.s.):</b> | bisphenol A epoxy resin                             |
| <b>Hazard Class:</b>                        | 9   |
| <b>ID Number:</b>                           | UN 3082   |
| <b>Packing Group:</b>                       | PG III  |
| <b>Marine Pollutant:</b>                    | Marine Pollutant                                    |

**IATA: Non-Bulk**

|   |   |
|---|---|
| <b>Proper Shipping Name:</b>                | Environmentally hazardous substance, liquid, n.o.s. |
| <b>Technical Shipping Name (If n.o.s.):</b> | bisphenol A epoxy resin                             |
| <b>Hazard Class:</b>                        | 9   |
| <b>ID Number:</b>                           | UN 3082   |
| <b>Packing Group:</b>                       | PG III  |
| <b>Marine Pollutant:</b>                    | Marine Pollutant                                    |

**TDG: Non-Bulk**

|   |   |
|---|---|
| <b>Proper Shipping Name:</b>                | Environmentally hazardous substance, liquid, n.o.s. |
| <b>Technical Shipping Name (If n.o.s.):</b> | bisphenol A epoxy resin                             |
| <b>Hazard Class:</b>                        | 9   |
| <b>ID Number:</b>                           | UN 3082   |
| <b>Packing Group:</b>                       | PG III  |
| <b>Marine Pollutant:</b>                    | Marine Pollutant                                    |

Effective Date: 1/19/10

**IMDG: Non-Bulk**

|   |   |
|---|---|
| <b>Proper Shipping Name:</b>                | Environmentally hazardous substance, liquid, n.o.s. |
| <b>Technical Shipping Name (If n.o.s.):</b> | bisphenol A epoxy resin                             |
| <b>Hazard Class:</b>                        | 9   |
| <b>ID Number:</b>                           | UN 3082   |
| <b>Packing Group:</b>                       | PG III  |
| <b>Marine Pollutant:</b>                    | Marine Pollutant                                    |

**Department of Transportation:** Under 49 CFR 171.4 (c) NONBULK shipments of marine pollutants are not regulated for transport by motor vehicles, rail cars or aircraft. NONBULK shipments of marine pollutants are regulated when transported by vessel (ship).

**15. REGULATORY INFORMATION****US Federal Regulations:**

**Occupational Safety and Health Act (OSHA):** This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

**Resource Conservation and Recovery Act (RCRA):** Not a hazardous waste under RCRA (40 CFR 261).

**SARA Title III: Section 304 - CERCLA:** Not listed.

**SARA Title III: Section 311/312 - Hazard Communication Standard (HCS):** Immediate (acute) health hazard  
Delayed (chronic) health hazard

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

**TSCA Section 8(b) - Inventory Status:** Chemical components listed on TSCA Inventory.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

**International Regulations:**

**Australian Inventory Status:** This product contains only chemicals which are currently listed on the Australian Inventory of Chemical Substances.

**Canadian Inventory Status:** This product contains components which are included on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

**Canadian WHMIS:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. D2B

**European Inventory Status (EINECS):** This product contains only chemicals that are currently listed on the European Inventory of Existing Commercial Chemical Substances (EINECS).

**Japanese Inventory Status:** This product contains one or more chemicals currently not on the Japanese Ministry of International Trade and Industry List of Existing and New Chemical Substances.

Effective Date: 1/19/10

**State Regulations:**

**California Proposition 65:** This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

**Pennsylvania Right-to-Know:** The following is required composition information:

Chemical Name: Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane

Common Name: Bisphenol A Diglycidyl Ether Polymer

CAS Number: 25068-38-6

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: silica oxide

CAS Number: Confidential

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Aluminum hydroxide (Al(OH)<sub>3</sub>)

CAS Number: 21645-51-2

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

Common Name: C12 and C14 Alkyl Glycidyl Ethers

CAS Number: 68609-97-2

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Oxirane, [[4-(1,1-dimethylethyl)phenoxy]methyl]-

Common Name: p-tert Butyl Phenyl Glycidyl Ether

CAS Number: 3101-60-8

Comment: Not on Pennsylvania Hazardous Substance List

**16. OTHER INFORMATION**

|                         |   |
|-------------------------|---|
| <b>MSDS No:</b>         | 61521   |
| <b>Reason Issued:</b>   | 1/10 update DOT -1/08 update syn +<br>whmis - add syn - New Product |
| <b>Prepared By:</b>     | Matthew Austin  |
| <b>Approved By:</b>     | Matthew Austin  |
| <b>Title:</b>           | EH&S Chemist  |
| <b>Approved Date:</b>   | 01/02/01  |
| <b>Supersedes Date:</b> | 06/30/08  |

**Other Information:** L/M Codes: DR - DL0597 (D10020030) [D01]  
Material Code: FPC7186

**Disclaimer:** The information and recommendations contained herein are based upon tests in controlled laboratory conditions, are believed to be correct, and are provided for the sole purpose of hazard communication as part of Huntsman's product safety program. This product has not been tested for, and therefore is not recommended or suitable for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended or likely, or for uses for which implantation within the human body is intended, and Huntsman assumes no liability for any such uses.

The information and recommendations contained herein are not intended to constitute performance information concerning the product, which is available in separate technical data sheets available from Huntsman upon request. Users are urged, and are urged

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**Effective Date: 1/19/10**

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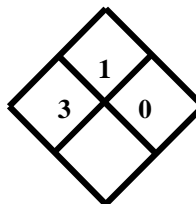
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Asia Pacific Emergency Phone: (65) 6336-6011

**Effective Date:** 6/26/08**Material Safety Data Sheet**

MSDS No: 5729

**1. PRODUCT IDENTIFICATION****Trade Name:** Hardener 1305**Chemical Family:** Amine

NFPA RATING

|                             |           |
|-----------------------------|-----------|
| <b>Health:</b>              | <b>3*</b> |
| <b>Flammability:</b>        | <b>1</b>  |
| <b>Reactivity:</b>          | <b>0</b>  |
| <b>Personal Protection:</b> |           |

HMIS RATING

**Synonyms:**

CG 1305 Hardener

**Intended Use or Product Type:** Potting system hardener**2. COMPOSITION / INFORMATION ON INGREDIENTS**

| O<br>S<br>H<br>A | CAS No.    | CHEMICAL IDENTITY  | EXPOSURE LIMITS |      |      |      | CARCINOGEN STATUS |      |     |      |
|------------------|------------|--|-----------------|------|------|------|-------------------|------|-----|------|
|                  |            |  | ACGIH           |      | OSHA |      | MFR.              | IARC | NTP | OSHA |
|                  |            |  | TWA             | STEL | PEL  | STEL |                   |      |     |      |
| *                | 111-40-0   | 1,2-Ethanediamine, N-(2-aminoethyl)-<br>Diethylenetriamine<br>Common Name:<br>Concentration<br>1.00 - 5.00 % by wt   | 1 ppm           | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | 112-24-3   | 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-<br>Triethylenetetramine<br>Common Name:<br>Concentration<br>10.00 - 30.00 % by wt   | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | 112-57-2   | 1,2-Ethanediamine, N-(2-aminoethyl)-N'-[2-[(2-aminoethyl)amino]ethyl]-<br>Tetraethylenepentamine<br>Common Name:<br>Concentration<br>1.00 - 5.00 % by wt                 | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | 26950-63-0 | 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with<br>methyloxirane<br>Propoxylated Triethylenetetramine<br>Common Name:<br>Concentration<br>30.00 - 60.00 % by wt | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |
| *                | 68910-93-0 | Fatty acids, tall-oil, reaction<br>products with<br>polyethylenepolyamines<br>Aliphatic polyaminoamide<br>Common Name:   | NE              | NE   | NE   | NE   | NE                | NR   | NR  | NR   |

Effective Date: 6/26/08

|               |                       |  |  |  |  |  |  |  |  |
|---------------|-----------------------|--|--|--|--|--|--|--|--|
| Concentration | 15.00 - 40.00 % by wt |  |  |  |  |  |  |  |  |
|---------------|-----------------------|--|--|--|--|--|--|--|--|

NE = Not Established NR = Not Reviewed \* = OSHA Hazardous Ingredient

**3. HAZARDS IDENTIFICATION**

**Emergency Overview:** Corrosive - causes skin and eye burns. Causes severe irritation if inhaled and can cause allergic respiratory reaction and allergic skin reaction. Can be harmful if absorbed through skin and may be harmful if swallowed.

**Primary Route(s) of Entry:** Dermal; heated product may produce inhalable vapors.

**Acute Exposure:** Corrosive. Causes skin and eye burns.

**Chronic:** Overexposure may have effects on lung, kidney, and liver.

**4. FIRST AID MEASURES**

**Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Skin:** Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes. Seek immediate medical attention.

**Inhalation:** Remove to fresh air. Seek immediate medical attention.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Seek immediate medical attention.

**Overexposure Effects:** Corrosive - causes skin and eye burns. Causes severe irritation if inhaled and can cause allergic respiratory reaction and allergic skin reaction. Can be harmful if absorbed through skin and may be harmful if swallowed.

**Medical Conditions Aggravated by Exposure:** Skin, eye and pulmonary conditions.

**Additional Information:** Referral to a physician is recommended if there is any question about the seriousness of any injury.

**5. FIRE FIGHTING MEASURES**

**Flash Point:** 245°F (118 °C)

**Flash Point Method Used:** PMCC

**Flammable Limits in Air (Lower - % by volume):** Not established

**Flammable Limits in Air (Upper - % by volume):** Not established

**Fire Fighting Extinguishing Media:** Carbon dioxide, dry chemical, foam, water.

**Fire Fighting Equipment:** Use self-contained breathing apparatus.

**Fire and Explosion Hazards:** Decomposition and combustion products may be toxic.

Effective Date: 6/26/08

**6. ACCIDENTAL RELEASE MEASURES****Accidental Release Measures:** Remove spillage by absorbing in absorbent material.**7. HANDLING AND STORAGE****Signal Word:** Danger! Corrosive.**Precautions:** Notice! Overexposure may have effects on lung, kidney, and liver.**Other Handling Information:** Nuisance dust may be generated when sanding or sawing cured material.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Skin Protection:** Wear impermeable gloves.**Respiratory Protection:** Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.**Eye Protection:** Wear splash-proof chemical goggles.**Engineering Controls:** General mechanical and local exhaust in accordance with ACGIH recommendations.**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                  |                      |
|----------------------------------|----------------------|
| <b>Color:</b>                    | Transparent Amber    |
| <b>Odor:</b>                     | Low Odor             |
| <b>Physical State:</b>           | Liquid               |
| <b>Solubility in Water:</b>      | Moderate             |
| <b>Vapor Pressure:</b>           | Not Determined       |
| <b>Specific Gravity:</b>         | 0.95 - 1 (water = 1) |
| <b>Boiling Point:</b>            | Not Determined       |
| <b>Melting Point:</b>            | Not Determined       |
| <b>Evaporation Rate:</b>         | Not Determined       |
| <b>Density:</b>                  | Not Determined       |
| <b>Vapor Density:</b>            | Not Determined       |
| <b>VOC:</b>                      | 314.34 g/L           |
| <b>pH:</b>                       | Not Determined       |
| <b>Coefficient of water/oil:</b> | Not Determined       |

**Percent Volatile:** Not determined.**10. STABILITY AND REACTIVITY****Conditions to Avoid:** Excessive heat for prolonged periods of time.**Stability:** Stable.**Incompatibility:** Strong oxidizers, acids and bases.**Hazardous Decomposition Products:** Combustion may form toxic materials, such as carbon dioxide, carbon monoxide.

Effective Date: 6/26/08

**Hazardous Polymerization:** Will not occur.**11. TOXICOLOGICAL INFORMATION****Acute Oral Effects (LD50):** Component(s) are slightly toxic, 500 - 5000 mg/kg (rat).

Diethylenetriamine= 1080 - 2330 mg/kg (rat)

Triethylenetetramine= 2500 - 4340 mg/kg (rat)

**Acute Dermal Toxicity (LD50):** Component(s) are toxic, 200 - 1000 mg/kg (rabbit).

Triethylenetetramine= 550 - 800 mg/kg (rabbit)

Diethylenetriamine= 672 - 1240 mg/kg (rabbit)

**Acute Inhalation Exposure Effects:** Severe respiratory irritant.**Sensitization:** May cause allergic skin reaction and respiratory sensitivity in some people.**Skin Irritation:** Corrosive. Causes burns.**Eye Irritation:** Corrosive. Causes burns.**12. ECOLOGICAL INFORMATION****13. DISPOSAL CONSIDERATIONS****Waste Disposal Method:** Consult qualified local or corporate personnel for method that will comply with local, state and federal health and environmental regulations.**14. TRANSPORT INFORMATION****DOT: Bulk**

|   |   |
|---|---|
| <b>Proper Shipping Name:</b>                | Polyamines, liquid, corrosive, N.O.S.           |
| <b>Technical Shipping Name (If n.o.s.):</b> | Aliphatic polyaminoamide, Triethylene tetramine |
| <b>Hazard Class:</b>                        | 8   |
| <b>ID Number:</b>                           | UN 2735   |
| <b>Packing Group:</b>                       | PG III  |
| <b>Label:</b>                               | Corrosive                                       |

**IATA: Non-Bulk**

|   |   |
|---|---|
| <b>Proper Shipping Name:</b>                | Polyamines, liquid, corrosive, N.O.S.           |
| <b>Technical Shipping Name (If n.o.s.):</b> | Aliphatic polyaminoamide, Triethylene tetramine |
| <b>Hazard Class:</b>                        | 8   |
| <b>ID Number:</b>                           | UN 2735   |
| <b>Packing Group:</b>                       | PG III  |
| <b>Label:</b>                               | Corrosive                                       |

**IMDG: Non-Bulk**

|   |   |
|---|---|
| <b>Proper Shipping Name:</b>                | Polyamines, liquid, corrosive, N.O.S.           |
| <b>Technical Shipping Name (If n.o.s.):</b> | Aliphatic polyaminoamide, Triethylene tetramine |
| <b>Hazard Class:</b>                        | 8   |
| <b>ID Number:</b>                           | UN 2735   |
| <b>Packing Group:</b>                       | PG III  |

|   |   |
|---|---|
| <b>Label:</b>                               | Corrosive                                       |
| <b>TDG: Non-Bulk</b>                        |   |
| <b>Proper Shipping Name:</b>                | Polyamines, liquid, corrosive, N.O.S.           |
| <b>Technical Shipping Name (If n.o.s.):</b> | Aliphatic polyaminoamide, Triethylene tetramine |
| <b>Hazard Class:</b>                        | 8   |
| <b>ID Number:</b>                           | UN 2735   |
| <b>Packing Group:</b>                       | PG III  |
| <b>Label:</b>                               | Corrosive                                       |

## 15. REGULATORY INFORMATION

### US Federal Regulations:

**Occupational Safety and Health Act (OSHA):** This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

**Resource Conservation and Recovery Act (RCRA):** Not a hazardous waste under RCRA (40 CFR 261) but handle with care due to corrosive effect on skin and eyes.

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product does not contain any chemicals for routine annual toxic chemical release reporting under Section 313 (40 CFR 372).

**TSCA Section 8(b) - Inventory Status:** All chemical components of this product are in compliance with TSCA inventory requirements.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

### International Regulations:

**Canadian Inventory Status:** This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

**Canadian WHMIS:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. D1B, D2A, D2B E

**European Inventory Status (EINECS):** This product contains only chemicals that are currently listed on the European Inventory of Existing Commercial Chemical Substances (EINECS).

**Japanese Inventory Status:** This product contains one or more chemicals currently not on the Japanese Ministry of International Trade and Industry List of Existing and New Chemical Substances.

### State Regulations:

**California Proposition 65:** This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

**Pennsylvania Right-to-Know:** The following is required composition information:

Chemical Name: 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-, polymer with methyloxirane

Effective Date: 6/26/08

Common Name: Propoxylated Triethylenetetramine  
CAS Number: 26950-63-0  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Fatty acids, tall-oil, reaction products with polyethylenepolyamines  
Common Name: Aliphatic polyaminoamide  
CAS Number: 68910-93-0  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-  
Common Name: Triethylenetetramine  
CAS Number: 112-24-3  
Comment: Hazardous Substance

Chemical Name: 1,2-Ethanediamine, N-(2-aminoethyl)-N'-[2-[(2-aminoethyl)amino]ethyl]-  
Common Name: Tetraethylenepentamine  
CAS Number: 112-57-2  
Comment: Hazardous Substance

Chemical Name: 1,2-Ethanediamine, N-(2-aminoethyl)-  
Common Name: Diethylenetriamine  
CAS Number: 111-40-0  
Comment: Hazardous Substance

## **16. OTHER INFORMATION**

**MSDS No:** 5729  
**Reason Issued:** 6/08 update section 3 -1/08 add  
synonyms

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