

Material Safety Data Sheet

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Section 1: Product Identification

MSDS Code: 8321C Part B Name: Optically Clear Epoxy

Related Part Numbers: 8321C-320ML; 8321C-4L

Use: For doming and protecting electronics

Section 2: Hazardous Ingredients

| CAS# | Chemical Name | Percentage by weight | ACGIH TWA | Osha Pel | Osha Stel |
|-----------|----------------------|----------------------|-----------|----------|-----------|
| 9046-10-0 | Polyoxyalkyleneamine | 90-100% | N/A | N/A | N/A |

Section 3: Hazards Identification

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|--------------------|----------------------------------|
| Eyes: | Corrosive |
| Skin: | Toxic by skin contact |
| Inhalation: | Corrosive to respiratory passage |
| Ingestion: | Toxic by oral exposure |
| Chronic: | No information is available |

Section 4: First Aid Measure

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| Eyes: | In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing |
| Skin: | In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse. |
| Inhalation: | Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention. |
| Ingestion: | Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. |

Section 5: Fire Fighting Measures

Autoignition Temperature: 240 °C / 464°F **Flash Point:** 124 °C / 255 °F **LEL / UEL:** 0.7% /5.0%

Extinguishing Media: Use DRY Chemicals, CO2, alcohol foam or water spray.

General Information:

Section 6: Accidental Release Measures

Spill Procedure: Isolate hazard area and restrict access. Absorb with an inert dry material and place in an appropriate waste disposal container. Avoid direct contact with material.

Section 7: Handling and Storage

Handling:

For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

Storage:

Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Storage Temperature: 20°C (68°F).

Section 8: Exposure Controls

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| Routes of entry: | eyes, skin, inhalation and Ingestion |
| Ventilation: | If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator |
| Personal Protection: | Chemical goggles; also wear a face shield if splashing hazard exists. |
| Eyes: | |
| Other Personal Protection Data: | Ensure that eyewash stations and safety showers are proximal to the work-station |

Section 9: Physical and Chemical Properties

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|--|--------------------------------|--|---|
| Physical State: Liquid | Odor: Amine | Solubility in water: Soluble in water | Evaporation Rate: N/A |
| Boiling Point: >200 °C / >392 °F | Specific Gravity: 0.946 | Vapor Pressure: 1 mbar @ 20°C | Vapor Density: N/A pH: 11.3(10g/l @20 |

Section 10: Stability and Reactivity

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| Stability: stable |
| Conditions to avoid: none known |
| Incompatibilities: Acids |
| Polymerization: will not occur |
| Decomposition: not available |

Section 11: Toxicological Information

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| Sensitization: (effects of repeated exposure) |
| Carcinogenicity: (risk of cancer) |
| Teratogenicity: (risk of malformation in an unborn fetus) |
| Reproductive Toxicity: (risk of sterility) |
| Mutagenicity: (risk of heritable genetic effects) |

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|--|--------------------------|---------------------------|---------------------|---------------------------|
| Lethal Exposure Concentrations: | Ingestion (LD50): | Inhalation (LC50): | Skin (LD50): | Inhalation (TCLo): |
| POLYOXYALKYLENEAMINE | 242 MG/KG RAT | n/A | 360 MG/KG rabbit | N/A |

Section 12: Ecological Information

Volatile Organic compounds, % by weight: 0

Volatile Organic compounds, grams per litre: 0

Section 13: Disposal Information

General Information: Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

Section 14: Transportation Information

Ground

Ground Canada: (1 L and under)

Classified as **Consumer Commodity**.

Recommend Shipper be trained and certified. Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations).

Ground Canada: (Over 1 L)

UN number: **2735**, Shipping Name: **AMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE)**, Class: **8**, Packing Group: **II**, Flash Point: **124°C**. ERG# 153.

Ground USA: (1 L)

Classified as **ORM-D**.

Recommend Shipper be trained and certified. Refer to USA CFR 49 Regulations (Parts 100 to 185).

Ground Canada: (Over 1 L)

UN number: **2735**, Shipping Name: **AMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE)**, Class: **8**, Packing Group: **II**, Flash Point: **124°C**. ERG# 153.

Air - All Sizes:

Shipper must be trained and certified. Refer to IATA Dangerous Goods Regulations.

UN number: **2735**, Shipping Name: **AMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE)**, Class: **8**, Packing Group: **II**, Flash Point: **124°C**. ERG# 153. Recommend using original MG Chemicals certified outer cartons. Tape all seams on the carton. Hazard Label required – Corrosive Liquid. A double arrow orientation label is required and is already printed on the original outer carton.

Ocean Vessel (IMO/IMDG) - All Sizes:

Shipper must be trained and certified. Refer to IMDG regulations.

UN number: **2735**, Shipping Name: **AMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE)**, Class: **8**, Packing Group: **II**, Flash Point: **124°C**. ERG# 153. Storage category "A", segregation as for class 9 but away from sources of heat and separated from goods of class 1 except for those in division 1.4.

Section 15: Regulatory Information

CANADA

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

DSL

All ingredients in this product are listed on the Domestic Substances List

WHMIS

This product belongs to the following categories: **D1B, E**

Industry and Science Canada

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain any chemicals listed as hazardous air pollutants.

Health Canada

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

USA

SARA (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45)

This product does not contain any chemicals subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

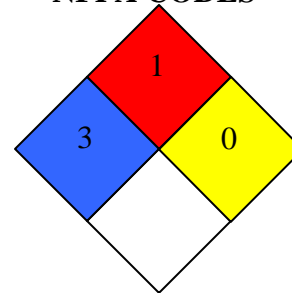
California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product does not contain any chemicals listed.

HMIS RATING

| | |
|-----------------------------|---|
| HEALTH: | 3 |
| FLAMMABILITY: | 1 |
| PHYSICAL HAZARD: | 0 |
| PERSONAL PROTECTION: | |

NFPA CODES



EUROPE

RoHS

This product does not contain any lead, cadmium, mercury, hexavalent chromium, PBB's, or PBDE's, and complies with European RoHS regulations.

WEEE

This product is not a piece of electrical or electronics equipment, and is therefore not governed by this regulation.

Section 16: Other Information

Definitions: N/A = not applicable, N/E = not established

Disclaimer: This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.