

Material Safety Data Sheet

Revision Date January 20, 2011	Prepared by Howard Clark	Technical Information 1-800-201-8822 or support@mgchemicals.com
Head Office 9347 - 193 Street, Surrey, B.C., V4N 4E7		Emergency Phone Canutech (613) 996-6666 Collect 24 hrs

For updates please download from www.mgchemicals.com or fax requests to 1-800-708-9888

Section 1: Product Identification

MSDS Code: 832HT - Part A Name: High Temperature Epoxy Potting and Encapsulating Compound

Related Part Numbers: 832HT-375ML; 832HT-3L

Use: Encapsulating and potting compound for high temperature applications.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
28064-14-4	Phenol Novolac Type Epoxy Resin	87-92%	N/E	N/E	N/E
28064-14-4	Epoxy Resin Type Bis-F	5-10%	N/E	N/E	N/E

Section 3: Hazards Identification

NFPA Ratings: Health 1 Flammability 0 Reactivity 0

HMIS Ratings: Health 1 Flammability 0 Physical Hazard 0

Eyes: Causes eye irritation. Avoid eye contact.

Skin: Causes skin irritation. Avoid skin contact.

Inhalation: At room temperature, exposure to vapors is unlikely due to physical properties. Higher temperatures may generate vapor levels sufficient to cause irritation.

Ingestion: Single dose oral toxicity is low. Amounts ingested incidental to industrial handling are not likely to cause injury; however, ingestion of large amounts may cause injury.

Chronic: No information available.

Section 4: First Aid Measure

Eyes: Remove contact lenses. Flush with plenty of water. Get medical aid if symptoms persist.

Skin: Wash skin with soap and water. Get medical aid if symptoms persist.

Inhalation: Immediately remove from exposure to fresh air. Get medical aid if symptoms persist.

Ingestion: Do not induce vomiting. If conscious, give 1-2 glasses of water. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature:	N/A	Flash Point: 150°C/302°F	LEL / UEL: N/A
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.		
General Information:	N/A		

Section 6: Accidental Release Measures



Spill Procedure: Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat.

Storage: Store in a cool, dry, well-ventilated area, away from incompatible substances.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protection: Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Wear chemical resistant gloves such as butyl rubber, nitrite, or neoprene. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Odor:	Mild	Solubility in water:	Insoluble	Evaporation Rate:	N/E
Boiling Point:	>150°C/ 302°F	Specific Gravity:	1.23g/L	Vapor Pressure:	<1 mm Hg @ 20°C	Vapor Density:	N/A
							pH: N/A

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Excessive temperatures.

Incompatibilities: Strong Acids, Amines, strong bases, and strong oxidizing agents.

Polymerization: May occur.

Decomposition: Carbon dioxide, and carbon monoxide, phenol compounds.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) This product is a skin sensitizer.

Carcinogenicity: (risk of cancer) No

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) No

Mutagenicity: (risk of heritable genetic effects) No

Lethal Exposure Concentrations:	Ingestion (LD50):	Inhalation (LC50):	Skin (LD50):	Inhalation (TCLo):
Phenol Novolac Type Epoxy Resin	4000 mg/kg Rabbit	6000 mg/kg Rabbit	N/E	N/E
Epoxy Resin Type Bis-F	N/E	N/E	N/E	N/E

Section 12: Ecological Information

General 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:

Non-regulated

Air:

Non-regulated

Sea:

Non-regulated

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: **D2B**

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.

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



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QMI Certificate # 004008
Burlington, Ontario, Canada

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.

Material Safety Data Sheet

Revision Date November 9, 2010	Prepared by Patti Rogers	Technical Information 1-800-201-8822 or support@mgchemicals.com
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Section 1: Product Identification

MSDS Code: 832HT - Part B Name: Hardener

Related Part Numbers: 8320, 832HT-375ML; 832HT-3L

Use: Encapsulating and potting compound for high temperature applications.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
68082-29-1	Polyamide	85 - 88	N/E	N/E	N/E
112-24-3	Aliphatic amine	12 - 13	N/E	N/E	N/E

Section 3: Hazards Identification

NFPA Ratings: Health 3 Flammability 1 Reactivity 0

HMIS Ratings: Health 3 Flammability 1 Physical Hazard 0

Eyes: Causes eye irritation.

Skin: May cause skin irritation.

Inhalation: May cause irritation of the upper respiratory tract.

Ingestion: May cause gastrointestinal irritation, ulceration and or burns in the mouth and throat.

Chronic: No information available.

Section 4: First Aid Measure

Eyes: Remove contact lenses. Flush with plenty of water. Get medical aid if symptoms persist.

Skin: Wash skin with soap and water. Get medical aid if symptoms persist.

Inhalation: Immediately remove from exposure to fresh air. Get medical aid if symptoms persist.

Ingestion: Do not induce vomiting. Aspiration hazard. If conscious, give 1-2 glasses of water. Get medical aid.

Section 5: Fire Fighting Measures

Autoignition Temperature: N/A **Flash Point:** 110°C / 230°F **LEL / UEL:** N/A

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

General Information: Containers may build pressure if exposed to heat, use water spray to cool container.

Section 6: Accidental Release Measures

Spill Procedure: Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible substances.

Section 8: Exposure Controls

Routes of entry: Eyes, ingestion, inhalation, and skin.

Ventilation: Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protection: Wear appropriate protective eyeglasses or chemical safety goggles. Wear impervious appropriate protective clothing to prevent skin contact. Wear chemical resistant gloves such as butyl rubber, nitrile, or neoprene. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Odor:	Musty	Solubility in water:	Moderate	Evaporation Rate:	<0.01 (BuAc= 1)	
Boiling Point:	N/e	Specific Gravity:	0.98 g/L	Vapor Pressure:	<1 mm Hg @20°C	Vapor Density:	5 (air=1)	pH: N/A

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Contamination of those materials referred to under incompatibilities.

Incompatibilities: Avoid contact with acids, acrylates, aldehydes, ketones, peroxides chlorate and permanganates

Polymerization: Will not occur.

Decomposition: Thermal decomposition may form; Carbon monoxide, Carbon dioxide and various hydrocarbon, Nitrogen oxides.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) This product is a skin sensitizer.

Carcinogenicity: (risk of cancer) No

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) No

Mutagenicity: (risk of heritable genetic effects) No

Lethal Exposure Concentrations:	Ingestion (LD50):	Inhalation (LC50):	Skin (LD50):	Inhalation (TCLo):
Polyamide	N/E	N/E	N/E	N/E
Aliphatic amine	2500 mg/kg Rat	N/E	805 mg/kg Rabbit	N/E

Section 12: Ecological Information

General 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.

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DSL

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

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