

8332-B

(PART B)

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 8332-B**Other Means of Identification:** Fast Set Epoxy (Part B)**Related Part #** 8332-25ML, 8332-50ML

Recommended Use and Restriction on Use

Use: fast setting epoxy adhesive hardener**Uses Advised Against:** Not available

Details of Manufacturer or Importer

ManufacturerMG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADAMG Chemicals (Head Office)
9347-193 Street
Surrey, British Columbia V4N 4E7
CANADA**☎** +1-800-340-0772**☎** +1-905-331-1396**FAX** +1-800-340-0773**FAX** +1-905-331-2682**E-MAIL** support@mgchemicals.com**E-MAIL** info@mgchemicals.com**WEB** www.mgchemicals.com**E-MAIL** (Competent Person): sds@mgchemicals.com

Emergency Phone Number

For hazardous material incidents ONLY (leaks, spills, fires, exposures or accidents)USA or CANADA—Call Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**

(Service access code: 335388)



For emergencies involving the transport of dangerous goods; 24/7 serviceCANADA—Call CANUTEC collect at **+1-613-996-6666** or ***666** on cellular phones

Section 2: Hazard(s) Identification
Classification of the Chemical Material
GHS Categories

Criteria		Category	Signal Word	Pictograms
Skin Corrosion		1	Danger	Corrosion
Eye Corrosion		1	Danger	Corrosion
Sensitization	Skin	1	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	3	none	none

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

Label Elements

Signal Word	DANGER
Pictograms	Hazard Statements
	H314: Causes severe skin burns and eye damage
	H317: May cause an allergic skin reaction
<i>No symbol mandated</i>	H412: Harmful to aquatic life with long lasting effects

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Prevention	Precautionary Statements
P102	Keep out of reach of children.
P260	Do not breathe fumes, mist, and vapors.
P280	Wear protective gloves and eye protection.
P264	Wash hands and exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
Response	Precautionary Statements
P310	For all routes of exposure: Immediately call a POISON CENTER or doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303 + P361 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.
P363	Wash contaminated clothing before reuse.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Storage	Precautionary Statements
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents in accordance to local, regional, and international regulations.

Hazards Not Otherwise Classified

HCS2012 Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
None	None	None	None

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Section 3: Composition/Information on Ingredients

CAS #	Chemical Name	%(weight)
72244-98-5	pentaerythritol-PO-mercaptoglycerol~	84%
90-72-2	tris-2,4,6-(dimethylaminomethyl) phenol	16%

Section 4: First-Aid Measures

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
IF IN EYES	P305 + P351 + P338, P310
Immediate Symptoms	<i>redness, pain, burns</i>
Response	Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
IF ON SKIN (or hair)	P303 + P361 + P352, P310, P333 + P313, P363
Immediate Symptoms	<i>redness, allergic contact dermatitis, burns</i>
Response	Take off immediately all contaminated clothing. Wash with plenty of water. Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse.
IF INHALED	P304 + P340, P310
Immediate Symptoms	<i>cough, irritation of the respiratory track</i>
Response	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
IF SWALLOWED	P301 + P330 + P331, P310
Immediate Symptoms	<i>burns to mouth and throat, abdominal pain (see inhalation symptoms)</i>
Response	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

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8332-B**(PART B)****Advice to Physicians**

In case of inhalation of nitrogen oxide combustion products, the symptoms may be delayed. For significant overexposures, the exposed person should be kept under medical surveillance for 48 hours.

Section 5: Fire-Fighting Measures

Extinguishing Media	In case of fire: Use extinguishing media suitable for surrounding materials.
Specific Hazards	Not flammable or combustible, but will burn if involved in a fire. Produces irritating smoke and toxic smoke in fires. Inhalation of toxic smoke during fire may have delayed effects. Exposed person may need to be put under surveillance for 48 h. Harmful to aquatic life: prevent fire fighting wash from entering waterway or sewer system.
Combustion Products	Produces carbon oxides (CO, CO ₂), nitrogen oxides (NO _x), sulfur oxides, and hydrogen sulfide.
Fire-Fighter	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

Section 6: Accidental Release Measures

Personal Protection	Use personal protection recommended in Section 8.
Precautions for Response	Do not breathe the vapors, mist, and fumes.
Environmental Precautions	Avoid releasing to the environment. Prevent spill from entering drains and waterways. Do not flush to sewer.
Containment Methods	Contain with inert absorbent (such as soil, sand, vermiculite).
Cleaning Methods	Collect liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe the residues with a paper towel and place dirty towels in container. Wash spill area with soap and water to remove the last traces of residue.
Disposal Methods	Dispose spill waste according to Section 13.

Section 7: Handling and Storage

Prevention	Keep out of reach of children. Do not breathe fumes, mist, and vapors. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
Handling	Wear protective gloves and eye protection. Take off contaminated clothing and wash it before reuse. Wash hands and exposed skin thoroughly after handling.
Storage	Store locked up.

Section 8: Exposure Controls/Personal Protection**Substances with Occupational Exposure Limit Values**

Contains no substances with occupational exposure limits.

Note: The ACGIH¹, OSHA, and Canadian provinces exposure limits were consulted. Limits from the RTECS database² and from suppliers' SDSs were also consulted.

Engineering Controls

Ventilation	General ventilation is adequate for normal use; keep airborne exposure as low as possible.
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Personal Protective Equipment

Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles. RECOMMENDATION: Use safety glasses with lateral protection (side shields).
Skin Protection	For likely contacts, use butyl rubber, neoprene or other chemically resistant gloves. For incidental contacts, use disposable nitrile gloves or other chemically resistant gloves.

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Respiratory Protection If exposed to high levels of fumes, mist, and vapors, wear respirator such as a half-mask respirator with organic vapour cartridges.

RECOMMENDATION: Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

General Hygiene Considerations

Wash hands thoroughly with water and soap after handling.

Section 9: Physical and Chemical Properties

Physical State	Liquid	Lower Flammability Limit	Not available
Appearance	Clear yellow	Upper Flammability Limit	Not available
Odor	Mercaptan-like (rotten cabbage)	Vapor Pressure @25 °C	0.000002 hPa estimated
Odor Threshold	Not available	Vapor Density	Not available
pH	Not available	Relative Density @25 °C	1.13
Freezing/Melting Point	Not available	Solubility in Water	Insoluble
Initial Boiling Point	Not available	Partition Coefficient n-octanol/water	Not available
Flash Point	>93.3 °C [>200 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Not applicable	Viscosity @25 °C	$\geq 1\ 000$ mm ² /s

a) Pensky-Martens closed cup

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(PART B)**Section 10: Stability and Reactivity**

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Avoid excessive heat and incompatible substances. Do not use in a way that forms fumes, vapors, or mist.
Incompatibilities	Strong oxidizing agents, strong acids
Polymerization	Will not occur
Decomposition	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

Section 11: Toxicological Information**Summary of Effects and Symptoms by Routes of Exposure**

Eyes	May cause redness, burns, and pain.
Skin	May cause redness, allergic contact dermatitis, and chemical burns.
Inhalation	Inhalation of fumes, vapors, or mist may cause cough and irritation of the nose, throat, and lungs (upper respiratory tract).
Ingestion	May cause pain and corrosive burns to the mouth, throat, esophagus, and stomach.
Chronic	Prolonged and repeated exposure to uncured epoxy hardener may lead to skin sensitization.

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Lethal Exposure Concentrations

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
pentaerythritol-PO-mercaptoglycerol~	Not available	Not available	Not available
tris-2,4,6-(dimethylaminomethyl) phenol	2 169 mg/kg Rat	>969 mg/kg Rat	Not available

Note: Toxicity data from the RTECS² and ECHA databases were consulted. The data from supplier SDSs' were also consulted.

Other Toxicological Effects

Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes severe eye damage.
Respiratory and skin sensitization (allergic reactions)	Pentaerythritol-PO-mercaptoglycerol~ and tris-2,4,6-(dimethylaminomethyl) phenol may cause skin sensitization according to animal studies.
Carcinogenicity (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.
Mutagenicity (risk of heritable genetic effects)	Based on available data, the classification criteria are not.
Reproductive Toxicity (risk to sex functions)	Based on available data, the classification criteria are not.
Teratogenicity (risk of fetus malformation)	Based on available data, the classification criteria are not.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not.
Aspiration hazard	Based on available data, the classification criteria are not met. There are no category 1 components, and the kinematic viscosity is >20.5 mm ² /s at 40 °C.

Section 12: Ecological Information

Ecological classifications are based on the IMDG/GHS criteria in conjunction with ecotoxicological data from our suppliers, the European Chemical Agency database (<http://echa.europa.eu>), and other reliable sources.

Pentaerythritol-PO-mercaptoglycerol~ and tris-2,4,6-(dimethylaminomethyl) phenol are classified as a chronic aquatic hazard category 3.

Acute Ecotoxicity

See chronic ecotoxicity.

Chronic Ecotoxicity

Category 3

Harmful to aquatic life with long lasting effects

Avoid Release to the environment.

Persistence and Biodegradability

Not available

Bioaccumulative Potential

Not available

Mobility in Soil

Not available

Other Effects

Not available

Section 13: Disposal Considerations

Dispose of contents in accordance with all local, regional, national, and international regulation.

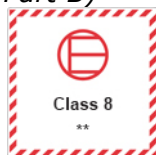
8332-B**(PART B)****Section 14: Transport Information****Ground****Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);
USA DOT 49 CFR (Parts 100 to 185) **Regulations.**Sizes 30 mL and under
8225-25ML, 83321-50ML (Part B)
Excepted Quantity
Code **E2**

** Shipper name

Air**Refer to ICAO-IATA Dangerous Goods Regulations.**Sizes 30 mL and under
8225-25ML, 8332-50ML (Part B)
Excepted Quantity
Code **E2**On air waybill, write:
"Dangerous Goods in
Excepted Quantities".*FOR REFERENCE ONLY***UN number:** UN2735**Shipping Name:** AMINES, LIQUID
CORROSIVE, N.O.S. (tris-2,4,6-
(dimethylaminomethyl) phenol)**Class:** 8**Packing Group:** II**Marine Pollutant:** No

** Shipper name

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8332-B**(PART B)****Sea****Refer to IMDG regulations.**Sizes 30 mL and under
8225-25ML, 8332-50ML (Part B)**Excepted Quantity**
Code **E2**In transport document,
write: "Dangerous
Goods in Excepted
Quantities".*FOR REFERENCE ONLY***UN number:** UN2735**Shipping Name:** AMINES, LIQUID
CORROSIVE, N.O.S. (tris-2,4,6-
(dimethylaminomethyl) phenol)**Class:** 8**Packing Group:** II**Marine Pollutant:** No

** Shipper name

Note: Shipper must be appropriately trained and certified before involvement with the transport of dangerous goods.

Section 15: Regulatory Information**Canada****Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

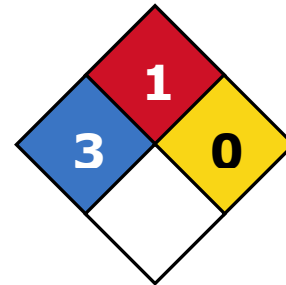
Hazardous Products Act (R.S.C., 1985, c. H-3)

The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

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8332-B**(PART B)****USA****Other Classifications****HMIS[®] RATING**

HEALTH:	*	3
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA[®] 704 CODES

Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

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 substances that are listed as hazardous air pollutants.

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

This product does not contain substances that are 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)

This product does not contain any listed substances in California.

Europe**RoHS** (Restriction of Hazardous Substances Directive)

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

WEEE (Waste Electrical and Electronic Equipment Directive)

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

Section 16: Other Information**SDS Prepared by the** Regulatory Affairs Department**Date of Revision** 07 August 2020**Supersedes** 09 March 2020**Reason for Changes:** Added new part number.**Reference**

1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
NOELR	No observable effect loading ratio
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

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Technical Queries Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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