



Kit Revision Date: 09 March 2020

## 8332 FAST SET EPOXY

### MG Chemicals Multipart Product Kit

This product is a kit made up of multiple parts. Each part is an independently packaged chemical component and has independent hazard assessments.

#### **Kit Content**

<i>Part</i>	<i>Product Name</i>	<i>Product Use</i>
A	8332-A	Fast setting epoxy adhesive resin
B	8332-B	Fast setting epoxy adhesive hardener

*Safety Data Sheets for each part listed above follow this cover sheet.*

#### **Transportation Instruction**

Before offering this product kit for transport, read Section 14 for all parts listed above.

8332-A

**(PART A)**

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

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

### Recommended Use and Restriction on Use

**Use:** Fast setting epoxy adhesive resin**Uses Advised Against:** Not available

### Details of Manufacturer or Importer

**Manufacturer**MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADAMG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA**TEL** +1-800-340-0772**TEL** +1-905-331-1396**FAX** +1-800-340-0773**FAX** +1-905-331-2682**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)**E-MAIL** [info@mgchemicals.com](mailto:info@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto: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 service  
CANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones

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

Criteria		Category	Signal Word	Pictograms
Sensitization	Skin	1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	2	Warning	Environment

*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**

<b>Signal Word</b>	<b>WARNING</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H319: Causes serious eye irritation H315: Cause skin irritation H317: May cause an allergic skin reaction
	H411: Toxic to aquatic life with long lasting effects
<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P261	Avoid breathing fumes, mist, and vapors.
P280	Wear protective gloves and eye protection.
P272	Contaminated work clothing should not be allowed out of the workplace.

*Section continued on the next page*

**8332-A**
**(PART A)**
*Continued...*

<b>Prevention</b>	<b>Precautionary Statements</b>
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice or attention.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents in accordance to local, regional, and international regulations.

**Hazards Not Otherwise Classified**

<b>Other Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
None	None	None	None

**Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
25068-38-6	bisphenol-A epoxy resin (reaction product) <sup>a)</sup>	≤100%

a) Average molecular weight of ≤700

**8332-A**
**(PART A)**
**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>redness, irritation, pain</i>
<b>Response</b>	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
<b>IF ON SKIN</b>	P302 + P352, P362 + P364, P333 + P313
<b>Immediate Symptoms</b>	<i>redness, irritation, rash</i>
<b>Response</b>	Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice or attention.
<b>IF INHALED</b>	P304 + P340
<b>Immediate Symptoms</b>	<i>cough, irritation of the respiratory track</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.
<b>IF SWALLOWED</b>	P301 + P330 + P331
<b>Immediate Symptoms</b>	<i>irritation</i>
<b>Response</b>	Rinse mouth. Do not induce vomiting.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use extinguishing media suitable for surrounding materials.
<b>Specific Hazards</b>	Not flammable or combustible, but will burn if involved in a fire. Produces irritating smoke of unknown toxicity in fires.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> )
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

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

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children.  Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.  Avoid breathing fumes, mist, and vapors.  Avoid release to the environment.
<b>Handling</b>	Wear protective gloves and eye protection.  Wash hands thoroughly after handling.  Collect spillage.
<b>Storage</b>	<b>RECOMMENDATION:</b> Keep in a dry and clean area, away from incompatible substances.

## Section 8: Exposure Controls/Personal Protection

### Substances with Occupational Exposure Limit Values

Contains no substances with occupational exposure limits.

*Note:* The ACGIH<sup>1</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>2</sup> and data from suppliers' SDS were also consulted.

### Engineering Controls

**Ventilation** General ventilation is adequate for normal use; keep overall exposure as low as possible.

### 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 of protective butyl rubber or other chemically resistant gloves.  
For incidental contacts, use nitrile or other chemically resistant gloves.

**Respiratory Protection** Generally, for emergencies and exposure above 0.5 mg/m<sup>3</sup>, use a self-contained breathing apparatus with full face piece operated in a pressure positive mode.  
If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.  
**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.

**8332-A**
**(PART A)**
**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	Not available
<b>Appearance</b>	Clear, yellow tint	<b>Upper Flammability Limit</b>	Not available
<b>Odor</b>	Mild	<b>Vapor Pressure @25 °C<sup>a)</sup></b>	<5.0×10 <sup>-10</sup> hPa [<3.5×10 <sup>-10</sup> mmHg]
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	Not available
<b>pH</b>	Not available	<b>Relative Density @20 °C</b>	1.16
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Practically insoluble
<b>Initial Boiling Point</b>	>150 °C [>302 °F]	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b>	250 °C [482 °F]	<b>Auto-ignition Temperature</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Non Flammable	<b>Viscosity @25 °C</b>	>10 000 mm <sup>2</sup> /s

a) Literature value for similar composition mixture

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Avoid flames, excessive temperatures, and incompatible substances.
<b>Incompatibilities</b>	Strong oxidizing agents, strong bases, ammonia
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.



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(PART A)

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

<b>Eyes</b>	Causes redness, serious eye irritation, or pain.
<b>Skin</b>	May cause mild to moderate skin irritation.
<b>Inhalation</b>	May cause coughing and irritation of the respiratory tract (nose, throat, and lung).
<b>Ingestion</b>	It may cause irritation.
<b>Chronic</b>	Prolonged and repeated exposure may lead to skin sensitization.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
bisphenol-A epoxy resin (reaction product)	11 400 mg/kg Rat	Not available	Not available

*Note:* Toxicity data from the RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier SDSs were also consulted.

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Causes skin irritant.
<b>Serious eye damage/irritation</b>	Serious to moderate eye irritant
<b>Respiratory and skin sensitization</b> (allergic reactions)	Skin sensitizer based on animal studies on components
<b>Carcinogenicity</b> (risk of cancer)	None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, classification criteria are not met.
<b>Teratogenicity</b> (risk of fetus malformation)	Based on available data, classification criteria are not met.

*Section continued on the next page*

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<b>STOT-single exposure</b>	Based on available data, classification criteria are not met.
<b>STOT-repeated exposure</b>	Based on available data, classification criteria are not met.
<b>Aspiration hazard</b>	The liquid content does not meet the aspiration hazard criteria. The mixture doesn't contain category 1 substances.

**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.

In Europe, similar epoxy resin mixtures with CAS# 25068-38-6 and average molecular weight of less than 700 are generally classified as chronic category 2 marine pollutant due to LC50 96 h of >1 mg/L but ≤10 mg/L.

**Acute Ecotoxicity**

See chronic ecotoxicity.

**Chronic Ecotoxicity**

Toxic to aquatic life with long lasting effect

Avoid release to the environment. Collect spillage.

**Persistence and Biodegradability**

Not available

**Bioaccumulative Potential**

Not available

**Mobility in Soil**

Not available

**Other Effects**

Not available

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(PART A)

**Section 13: Disposal Considerations**

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

**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 under 450 L  
8332-25ML, 8332-50ML (Part A)  
**NOT REGULATED** in TDG  
per Special Provisions 99

49 CFR: Sizes over 5 L

*FOR REFERENCE ONLY*

**UN number:** UN3082

**Shipping Name:** ENVIRONMENTALLY  
HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(bisphenol-A epoxy resin (reaction product))

Sizes 5 L and under  
**NOT REGULATED** in 49 CFR  
per exception 171.4 (c)(2)

**Class:** 9

**Packing Group:** III

**Marine Pollutant:** Yes

**Special Provision 99 (2):** These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no accidental release of the dangerous goods that could endanger public safety.

**171.4 (c) Exceptions:**

(2) Single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other requirements of this subchapter provided the packagings meet the general requirements in §§ 173.24 and 173.24a. This exception does not apply to marine pollutants that are a hazardous waste or a hazardous substance. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this subchapter relevant to any additional hazards continue to apply.

*Section continued on the next page*

**8332-A****(PART A)****Air****Refer to ICAO-IATA regulations.**

Sizes 5 L and under  
*8332-25ML, 8332-50ML (Part A)*  
**NOT REGULATED**  
On air waybill, write:  
"Not Restricted, as per Special  
Provisions A197"

**Special Provision A197:** These substances when transported in single or combination packagings containing net quantity per single or inner packaging of less than 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Sea****Refer to IMDG regulations.**

Sizes 5 L and under  
*8332-25ML, 8332-50ML (Part A)*  
**NOT REGULATED**  
per 2.10.2.7

2.10.2.7: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provision of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this Code relevant to any additional hazards continue to apply.

**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.

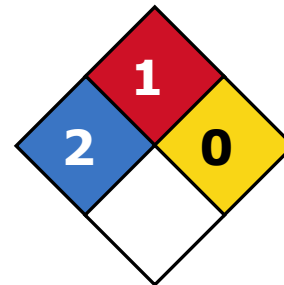
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	* <b>2</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**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, USA)

This product does not contain any listed substances in California.

*Section continued on the next page*

**8332-A****(PART A)****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**

<b>Prepared by the</b>	Regulatory Affairs Department
<b>Date of Revision</b>	07 August 2020
<b>Supersedes</b>	09 March 2020
<b>Reason for Changes:</b>	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

*Section continued on the next page*

**8332-A****(PART A)**

**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](http://www.mgchemicals.com).

Email: [support@mgchemicals.com](mailto:support@mgchemicals.com)

Phone: +1-905-331-1396

**Mailing Addresses** *Manufacturing & Support*  
1210 Corporate Drive  
Burlington, Ontario, Canada  
L7L 5R6

*Head Office*  
9347-193rd Street  
Surrey, British Columbia, Canada  
V4N 4E7

**Disclaimer** This safety data sheet is provided as an information resource only. *M.G. Chemicals, Ltd.* believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to query and verify any information seeming suspect where doubt on the validity may exist. The buyer assumes all responsibility of using and handling the product in accordance with local, regional, national, and international regulations.

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

**Manufacturer**MG 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**FAX** +1-800-340-0773**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** [info@mgchemicals.com](mailto:info@mgchemicals.com)**E-MAIL** (Competent Person): [sds@mgchemicals.com](mailto: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**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	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

*Section continued on the next page*

**8332-B**
**(PART B)**
*Continued...*

<b>Prevention</b>	<b>Precautionary Statements</b>
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.
<b>Response</b>	<b>Precautionary Statements</b>
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.
<b>Storage</b>	<b>Precautionary Statements</b>
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
P501	Dispose of contents in accordance to local, regional, and international regulations.

**Hazards Not Otherwise Classified**

<b>HCS2012 Criteria</b>	<b>Hazard Statements/Precautionary Statement</b>	<b>Signal Word</b>	<b>Pictograms</b>
None	None	None	None

**8332-B**
**(PART B)**
**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>
<b>IF IN EYES</b>	P305 + P351 + P338, P310
<b>Immediate Symptoms</b>	<i>redness, pain, burns</i>
<b>Response</b>	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.
<b>IF ON SKIN (or hair)</b>	P303 + P361 + P352, P310, P333 + P313, P363
<b>Immediate Symptoms</b>	<i>redness, allergic contact dermatitis, burns</i>
<b>Response</b>	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.
<b>IF INHALED</b>	P304 + P340, P310
<b>Immediate Symptoms</b>	<i>cough, irritation of the respiratory track</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
<b>IF SWALLOWED</b>	P301 + P330 + P331, P310
<b>Immediate Symptoms</b>	<i>burns to mouth and throat, abdominal pain (see inhalation symptoms)</i>
<b>Response</b>	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

*Section continued on the next page*

**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**

<b>Extinguishing Media</b>	In case of fire: Use extinguishing media suitable for surrounding materials.
<b>Specific Hazards</b>	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.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), sulfur oxides, and hydrogen sulfide.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	Use personal protection recommended in Section 8.
<b>Precautions for Response</b>	Do not breathe the vapors, mist, and fumes.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways. Do not flush to sewer.
<b>Containment Methods</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</b>	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.
<b>Disposal Methods</b>	Dispose spill waste according to Section 13.

## Section 7: Handling and Storage

<b>Prevention</b>	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.
<b>Handling</b>	Wear protective gloves and eye protection. Take off contaminated clothing and wash it before reuse. Wash hands and exposed skin thoroughly after handling.
<b>Storage</b>	Store locked up.

## Section 8: Exposure Controls/Personal Protection

### Substances with Occupational Exposure Limit Values

Contains no substances with occupational exposure limits.

*Note:* The ACGIH<sup>1</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from the RTECS database<sup>2</sup> and from suppliers' SDSs were also consulted.

### Engineering Controls

<b>Ventilation</b>	General ventilation is adequate for normal use; keep airborne exposure as low as possible.
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### Personal Protective Equipment

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

*Section continued on the next page*

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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**

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

a) Pensky-Martens closed cup

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

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Avoid excessive heat and incompatible substances. Do not use in a way that forms fumes, vapors, or mist.
<b>Incompatibilities</b>	Strong oxidizing agents, strong acids
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	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**

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

*Section continued on the next page*

**Lethal Exposure Concentrations**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
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 RTECS<sup>2</sup> and ECHA databases were consulted. The data from supplier SDSs' were also consulted.

**Other Toxicological Effects**

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

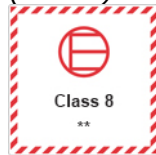
Not available

### Other Effects

Not available

## Section 13: Disposal Considerations

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

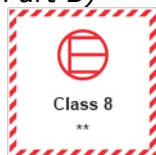
**8332-B****(PART B)****Section 14: Transport Information****Ground****Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations);  
**USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**Sizes 30 mL and under  
8225-25ML, 83321-50ML (Part B)  
**Excepted Quantity**  
Code **E2**

\*\* 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

*Section continued on the next page*

**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.

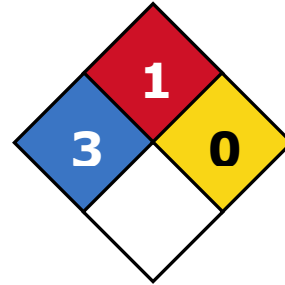
**Hazardous Products Act (R.S.C., 1985, c. H-3)**

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

*Section continued on the next page*

**8332-B****(PART B)****USA****Other Classifications****HMIS<sup>®</sup> RATING**

<b>HEALTH:</b>	<b>*</b>	<b>3</b>
<b>FLAMMABILITY:</b>		<b>1</b>
<b>PHYSICAL HAZARD:</b>		<b>0</b>
<b>PERSONAL PROTECTION:</b>		

**NFPA<sup>®</sup> 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

*Section continued on the next page*

**8332-B****(PART B)**

**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](http://www.mgchemicals.com).

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