

832HDA

(PART B)

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Name:** 832HDA (Part B)**Other Means of Identification:** General Purpose Epoxy (Part B)**Related Part #** 832HDA-25ML, 832HDA-50ML, 832HDA-400ML, 832HDA-7.4L,  
832HDA-40L


### Recommended Use and Restriction on Use

**Use:** Epoxy hardener for use with resins**Uses Advised Against:** Not applicable.

### Details of Manufacturer or Importer

**Manufacturer**MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
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** (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 Material**
**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Skin Corrosion	1	Danger	Corrosion
Sensitization Skin	1	Warning	Exclamation

*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
<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P261	Avoid breathing fumes or vapors.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, and eye protection.
P264	Wash hands and exposed skin thoroughly after handling.

*Section continued on next page*

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*Continued...*

<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.
P302 + 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 and container 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>
109-55-7	3-aminopropyldimethylamine	12%
26139-75-3	formaldehyde, polymer with 1,3, dimethylbenzene	10%
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	9%
8007-24-7	cashew (anacardium occidentale) nutshell extract, decarboxylated, distilled	9%
1477-55-0	1-[3-(aminomethyl)phenyl]methanamine	5%

**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, severe irritation, pain, burns</i>
<b>Response</b>	Rinse cautiously with water for 30 minutes or more. 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>	P302 + P361+ P352, P310, P333 + P313, P363
<b>Immediate or Delayed Symptoms</b>	<i>redness, severe irritation, rash (allergic contact dermatitis), pain, chemical 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 or Delayed Symptoms</b>	<i>cough, irritation of the respiratory track, burning sensation, asthma, difficulty breathing</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>irritation, abdominal pain, nausea, vomiting, burns to the digestive tract</i>
<b>Response</b>	Rinse mouth. Do not induce vomiting.  Immediately call a POISON CENTER or doctor.

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
<b>Specific Hazards</b>	Not flammable or combustible but burns if involved in a fire. Produces irritating and toxic fumes in fires or in contact with hot surfaces.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ) and nitrogen oxides (NO <sub>x</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 fumes and vapors.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</b>	Collect liquid in a sealable container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe residue 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

### Prevention

Keep out of reach of children.

Avoid breathing fumes or vapors.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

### Handling

Wear protective gloves, protective clothing, and eye protection. In case of inadequate ventilation, wear respiratory protection.

Use only outdoors or in a well-ventilated area.

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

Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
m-xylene $\alpha,\alpha'$ diamine	ACGIH	0.1 mg/m <sup>3</sup> (Skin)	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	0.1 mg/m <sup>3</sup>	Not established
	Canada BC	0.1 mg/m <sup>3</sup>	Not established
	Canada ON	0.1 mg/m <sup>3</sup>	Not established
	Canada QC	0.1 mg/m <sup>3</sup>	Not established

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from suppliers' SDS were also consulted. Short term exposure limits (STEL) are for 15 min and long-term permissible exposure limits (PEL) for 8 h.

a) Skin—can be absorbed through the skin.

*Note:* m-xylene  $\alpha,\alpha'$  diamine is also known as 1-[3-(aminomethyl)phenyl]methanamine

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**832HDA****(PART B)****Engineering Controls****Ventilation**

Keep airborne concentrations below the occupational exposure limits (OEL).

If the product is heated at high temperatures or worker is allergic, use local ventilation and consider using a full mask with organic vapor cartridges.

**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, neoprene, or other chemically resistant gloves.

For incidental contacts, use nitrile or other chemically resistant gloves.

**Respiratory Protection**

For over-exposures up to 10 x OEL of fumes, mists, dust, and vapors, wear respirator such as a half-mask respirator with organic vapor cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator or a self-contained breathing apparatus.

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.

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**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	Not available
<b>Appearance</b>	Clear, amber	<b>Upper Flammability Limit</b>	Not available
<b>Odor</b>	Mild, amine-like	<b>Vapor Pressure @20 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	Not available
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	0.99
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Slightly soluble
<b>Boiling Point</b>	≥130 °C [≥266 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point</b>	Not available	<b>Auto-ignition Temperature</b>	382 °C [720 °F]
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not available	<b>Viscosity @25 °C</b>	1 278 cP

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not reactive.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Avoid excessive heat and incompatible substances.
<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 causes redness, severe irritation, pain, or corrosive eye damage.
<b>Skin</b>	May cause redness, severe irritation, allergic contact dermatitis, pain and chemical burns.
<b>Inhalation</b>	Inhalation of vapors or mist may cause coughing, irritation of the respiratory track, difficulty breathing.
<b>Ingestion</b>	May cause irritation, abdominal pain, nausea, vomiting, burns to the digestive tract.
<b>Chronic</b>	Prolonged and repeated exposure to uncured epoxy hardener may lead to skin and respiratory sensitization.

**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
3-aminopropyldimethylamine	377 mg/kg Rat	300 mg/kg Rabbit	Not available
2,4,6-tris(dimethylaminomethyl)phenol	2 169 mg/kg Rat	Not available	Not available
formaldehyde, polymer with 1,3, dimethylbenzene	Not available	Not available	Not available
cashew (anacardium occidentale) nutshell extract, decarboxylated, distilled	Not available	Not available	Not available
1-[3-(aminomethyl)phenyl]methanamine	930 mg/kg Rat	3 100 mg/kg Rabbit	1.34 mg/L (4hr) Rat
Mixture ATE	2499 mg/kg	2472 mg/kg	29.8 mg/L

*Note:* Toxicity data from the ECHA database was consulted. The data from supplier SDS were also consulted.

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## Other Toxicological Effects

**Skin corrosion/irritation**

The 3-aminopropyldimethylamine, 2,4,6-tris(dimethylaminomethyl)phenol (CAS# 109-55-7); Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled (CAS # 8007-24-7); and 1-[3-(aminomethyl)phenyl]methanamine (CAS# 1477-55-0) ingredients cause skin burns.

**Serious eye damage/irritation**

The 3-aminopropyldimethylamine, 2,4,6-tris(dimethylaminomethyl)phenol; Formaldehyde, polymer with 1,3, dimethylbenzene, Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled; and 1-[3-(aminomethyl)phenyl]methanamine ingredients cause eye damage.

**Respiratory and skin sensitization** (allergic reactions)

The 3-aminopropyldimethylamine (CAS# 109-55-7), 2,4,6-tris(dimethylaminomethyl)phenol (CAS# 90-72-2), Cashew (Anacardium occidentale) Nutshell Extract, decarboxylated, Distilled (CAS # 8007-24-7), and 1-[3-(aminomethyl)phenyl]methanamine (CAS# 1477-55-0) may cause skin sensitization.

**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)

None of the ingredients are classified or listed as a mutagen.

**Reproductive Toxicity**  
(risk to sex functions)

None of the ingredients are classified or listed as a reproductive hazard.

**Teratogenicity**  
(risk of fetus malformation)

Based on available data, the classification criteria are not met.

**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 met.

**Aspiration hazard**

Based on available data, the classification criteria are not met. There is less than 10% category 1 component, and the kinematic viscosity is  $>20.5 \text{ mm}^2/\text{s}$  at  $40^\circ\text{C}$ .

## 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.

### Acute Ecotoxicity

None of the ingredients are acutely ecotoxic.

### Chronic Ecotoxicity

None of the ingredients are chronically ecotoxic.

### Biodegradability

Not readily biodegradable

### Bioaccumulation

Not available

### Other Effects

Not available

## Section 13: Disposal Information

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

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**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 1 L and under

*Part B of 832HDA-25ML, 832HDA-50ML, and 832HDA-400ML kits*

**Limited Quantity**



Sizes greater than 1 L

**UN number:** UN1760

*Part B of 832HDA-7.4L and 832HDA-40L kits*

**Shipping Name:** Corrosive Liquid, N.O.S. (3-aminopropyldimethylamine)

**Class:** 8

**Packing Group:** II

**Marine Pollutant:** Yes


**Air**

**Refer to ICAO-IATA Dangerous Goods Regulations.**

Sizes 0.5 L and under

*Part B of 832HDA-25ML, 832HDA-50ML, and 832HDA-400ML kits*

**Limited Quantity**



Sizes greater than 0.5 L up to 1 L

**UN number:** UN1760

*Part B of 832HDA-7.4L and 832HDA-40L kits*

**Shipping Name:** Corrosive Liquid, N.O.S. (3-aminopropyldimethylamine)

**Class:** 8

**Packing Group:** II

**Marine Pollutant:** Yes



**Excepted Quantity** **E2 ≤30 mL**

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**832HDA****(PART B)****Sea****Refer to IMDG regulations.**

Sizes 1 L and under

*Part B of 832HDA-25ML, 832HDA-50ML, and 832HDA-400ML kits***Limited Quantity**

Sizes greater than 1 L

**UN number:** UN1760*Part B of 832HDA-7.4L and 832HDA-40L kits***Shipping Name:** Corrosive Liquid, N.O.S. (3-aminopropyldimethylamine)**Class:** 8**Packing Group:** II**Marine Pollutant:** Yes

**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.

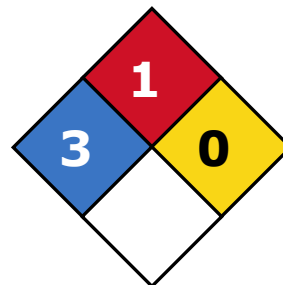
**Hazardous Products Act (R.S.C., 1985, c. H-3)**

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

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**832HDA****(PART B)****USA****Other Classifications****HMIS® RATING**

<b>HEALTH:</b>	<b>* 3</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.

**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>SDS Prepared by</b>	MG Chemicals Regulatory Department
<b>Date</b>	20 February 2024
<b>Supersedes</b>	15 August 2023
<b>Reason for Changes:</b>	Update to section 3.

**Reference**

1) ACGIH 2024 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 (2024).

**Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
IARC	International Agency for Research on Cancer
NOELR	No observable effect loading ratio
NTP	National Toxicology Program
GHS	Globally Harmonized System of Classification of Labeling of Chemicals
LC50	Lethal Concentration 50%
LCLo	Lowest published lethal concentration
LD50	Lethal Dose 50%
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
SDS	Safety Data Sheet
STEL	Short-Term Exposure Limit
TCLo	Lowest published toxic concentration
TWA	Time Weighted Average
VOC	Volatile Organic Content

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**832HDA****(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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