



Kit Revision Date: 09 March 2020

832WC WATER CLEAR EPOXY KIT

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 | 832WC-A | Epoxy resin for use with hardeners |
| B | 832WC-B | Epoxy hardener for use with resins |
| | | |

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.

832WC-A

(PART A)

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 832WC-A**Other Means of Identification:** Optically Clear Epoxy**Related Part #** 832WC-375ML, 832WC-3L, 832WC-12L, 832WC-60L

Recommended Use and Restriction on Use

Use: Epoxy resin for use with hardeners**Uses Advised Against:** Not for use as a spray coating

Details of Manufacturer or Importer

Manufacturer

MG Chemicals
1210 Corporate Drive
Burlington, Ontario L7L 5R6
CANADA

MG 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**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@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

832WC-A
(PART A)
Section 2: Hazard(s) Identification
Classification of Hazardous Chemical
GHS Categories

| Criteria | | Category | Signal Word | Pictograms |
|----------------------------------|---------|----------|-------------|-------------|
| Sensitization | Skin | 1 | Warning | Exclamation |
| Hazardous to Aquatic Environment | Chronic | 3 | <i>none</i> | <i>none</i> |

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 | WARNING |
| Pictograms | Hazard Statements |
|  | H317: May cause an allergic skin reaction |
| <i>No symbol mandated</i> | H412: Harmful to aquatic life with long lasting effects |
| Prevention | Precautionary Statements |
| P102 | Keep out of reach of children. |
| P261 | Avoid breathing fumes or vapors. |
| P280 | Wear protective gloves and protective clothing. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |

Section continued on the next page

832WC-A
(PART A)
Continued...

| Response | Precautionary Statements |
|-----------------|--|
| 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. |
| Disposal | Precautionary Statements |
| P501 | Dispose of contents in accordance to local, regional, national, and international regulations. |

Hazards Not Otherwise Classified

| Other Criteria | Hazard Statements/Precautionary Statement | Signal Word | Pictograms |
|-----------------------|--|--------------------|-------------------|
| None | None | Not applicable | Not applicable |

Section 3: Composition/Information on Ingredients

| CAS # | Chemical Name | %(weight) |
|--------------|---|------------------|
| 30583-72-3 | cyclohexanol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane | 100% |

Section 4: First-Aid Measures

| <i>Exposure Condition</i> | <i>GHS Code/Symptoms/Precautionary Statements</i> |
|---------------------------|---|
| IF ON SKIN | P302 + P352, P333 + P313, P362 + P364 |
| Immediate Symptoms | <i>redness, irritation, dry skin, allergic contact dermatitis</i> |
| Response | Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. |

Section continued on the next page

832WC-A
(PART A)
Continued...

| | |
|---------------------------|--|
| IF SWALLOWED | P301 + P330, P331 |
| Immediate Symptoms | <i>low toxicity: irritation</i> |
| Response | Rinse mouth. Do NOT induce vomiting. |
| IF INHALED | P304 + P340 |
| Immediate Symptoms | <i>low toxicity: heating will cause vapors to irritate the respiratory tract and mucous membranes</i> |
| Response | Remove person to fresh air and keep comfortable for breathing. |
| IF IN EYES | P305 + P351 + P338 |
| Immediate Symptoms | <i>low toxicity: no symptoms known or expected</i> |
| Response | Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

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 burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires. Prevent fire-fighting wash from entering waterway or sewer system. |
| Combustion Products | Produces carbon oxides (CO,CO ₂) and toxic fumes. |
| Fire-Fighter | Wear self-contained breathing apparatus and full fire-fighting turn-out gear. |

832WC-A**(PART A)****Section 6: Accidental Release Measures**

| | |
|----------------------------------|---|
| Personal Protection | See personal protection recommendations in Section 8. |
| Precautions for Response | Avoid breathing the fumes/vapors. Remove or keep away all sources of extreme heat or open flames. |
| Environmental Precautions | Avoid releasing to the environment. Prevent spill from entering drains and waterways. |
| Containment Methods | Contain with inert and non-flammable 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. Wash residue with a paper towel wetted with alcohol, ethyl lactate, or another suitable organic solvent; and place dirty towels in container. Use soap and water to remove the last traces of residue. |
| Disposal Methods | Dispose of spill waste according to Section 13. |

Section 7: Handling and Storage

| | |
|-------------------|--|
| Prevention | Keep out of reach of children. Avoid breathing fumes or vapors or contact with skin or eyes. Avoid release to the environment. |
| Handling | Wear protective gloves and protective clothing. Contaminated work clothing should not be allowed out of the workplace. |
| Storage | Keep away from incompatible materials. |

832WC-A

(PART A)**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 by RTECS database² 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: Ensure that glasses have side shields for lateral protection.

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/m³, 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.

832WC-A
(PART A)
Section 9: Physical and Chemical Properties

| | | | |
|-------------------------------|----------------------|--|---------------------------|
| Physical State | Liquid | Lower Flammability Limit | Not available |
| Appearance | Clear | Upper Flammability Limit | Not available |
| Odor | Mild | Vapor Pressure @20 °C | Not available |
| Odor Threshold | Not available | Vapor Density | >1 (Air=1) |
| pH | Not available | Relative Density @25 °C | 1.1 |
| Freezing/Melting Point | Not available | Solubility in Water | Negligible |
| Initial Boiling Point | Not available | Partition Coefficient n-octanol/water | Not available |
| Flash Point | >115 °C [>240 °F] | Auto-ignition Temperature | Not available |
| Evaporation Rate | Not available | Decomposition Temperature | Not available |
| Flammability | Non flammable | Viscosity @25 °C | >2 860 mm ² /s |

Section 10: Stability and Reactivity

| | |
|----------------------------|--|
| Reactivity | Reacts exothermically with amines. |
| Chemical Stability | Chemically stable at normal temperatures and pressures |
| Conditions to Avoid | Avoid flames, excessive temperatures, and incompatible substances. |
| Incompatibilities | Strong oxidizing agents, strong acids, alkalies |
| Polymerization | Will occur at very high temperatures |
| 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, severe irritation, or pain. |
| Skin | May cause skin redness, irritation, dry skin, or allergic contact dermatitis. |
| Inhalation | Heating will cause vapors to irritate the respiratory tract and mucous membranes. |
| Ingestion | May cause irritation. |
| Chronic | Prolonged and repeated exposure may lead to skin sensitization. |

Acute Toxicity (Lethal Exposure Concentrations)

| Chemical Name | LD50 oral | LD50 dermal | LC50 inhalation |
|---|---------------------|---------------------|------------------------|
| cyclohexanol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane ^{a)} | >2 000 mg/kg Rat | >2 000 mg/kg Rat | Not available |

Note: Toxicity data from the RTECS² and ECHA were consulted. The data from supplier SDS were also consulted.

a) Data is based off of similar materials

Other Toxicological Effects

| | |
|--|--|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | Based on available data, the classification criteria are not met. |
| Sensitization (allergic reactions) | The epoxy resins tested positive as a skin sensitizer based on 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 met. |

Section continued on the next page

832WC-A**(PART A)**

| | |
|---|--|
| Reproductive Toxicity (risk to sex functions) | Based on available data, the classification criteria are not met. |
| 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 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.

Based on similar materials cyclohexanol, 4,4'-(1-methylethyldene)bis-, polymer with 2-(chloromethyl)oxirane with CAS# 30583-72-3 is classified as chronic category 3 due to LC50 96 h of 11.5 mg/L and EC50 48 h of 18.3 mg/L.

Acute Ecotoxicity

Available toxicity data does not meet classification thresholds.

Chronic Ecotoxicity

Category 3

Harmful to aquatic life with long lasting effect

Avoid release to the environment.

Biodegradability

Not available

Bioaccumulation

Not available

832WC-A**(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.**

Non Regulated

Air

Refer to ICAO-IATA Dangerous Goods Regulations.

Non Regulated

Sea

Refer to IMDG regulations.

Non Regulated

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.

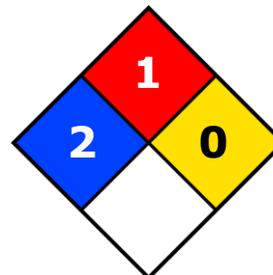
Hazardous Products Act (R.S.C., 1985, c. H-3)

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

Section continued on the next page

832WC-A
(PART A)
USA
Other Classifications
HMIS® RATING

| | |
|-----------------------------|------------|
| HEALTH: | * 2 |
| 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 which 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**SDS Prepared by** MG Chemicals Regulatory Department**Date of Review** 02 March 2020**Supersedes** 07 February 2020**Reason for Changes:** Update to the emergency phone number information.**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 |
| 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 |

Section continued on the next page

832WC-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.

Email: support@mgchemicals.com

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.

832WC-B

(PART B)

Safety Data Sheet

Section 1: Identification

Product Identifier and Other Means of Identification

Product Identifier: 832WC-B**Other Means of Identification:** Optically Clear Epoxy**Related Part #** 832WC-375ML, 832WC-3L, 832WC-12L, 832WC-60L

Recommended Use and Restriction on Use

Use: Epoxy hardener for use with resins**Uses Advised Against:** Not for use as a spray coating

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**FAX** +1-800-340-0773**E-MAIL** support@mgchemicals.com**WEB** www.mgchemicals.com**☎** +1-905-331-1396**FAX** +1-905-331-2682**E-MAIL** info@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

832WC-B
(PART B)
Section 2: Hazard(s) Identification
Classification of the Chemical Material
GHS Categories

| Criteria | | Category | Signal Word | Pictograms |
|----------------------------------|---------|----------|-------------|-------------|
| Serious Eye Damage | | 1 | Danger | Corrosion |
| Skin Corrosion | | 1B | Danger | Corrosion |
| Sensitization | Skin | 1A | Warning | Exclamation |
| Acute Toxicity | Oral | 4 | Warning | Exclamation |
| Hazardous to Aquatic Environment | Chronic | 2 | <i>none</i> | 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

| | |
|---|---|
| Signal Word | DANGER |
| Pictograms | Hazard Statements |
|  | H314: Causes severe skin burns and eye damage |
|  | H317: May cause an allergic skin reaction H302: Harmful if swallowed |
|  | H411: Toxic to aquatic life with long lasting effects |

Section continued on the next page

832WC-B
(PART B)
Continued...

| Prevention | Precautionary Statements |
|--------------------|--|
| P102 | Keep out of reach of children. |
| P260 | Do not breathe fumes or vapors. |
| P280 | Wear protective gloves, protective clothing, eye protection, and face protection. |
| P264 | Wash hands thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P270 | Do not eat, drink or smoke when using this product. |
| 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 [or shower]. |
| 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. |
| P391 | Collect spillage. |
| Storage | Precautionary Statements |
| P405 | Store locked up. |
| Disposal | Precautionary Statements |
| P501 | Dispose of contents in accordance to local, regional, national, and international regulations. |

Section continued on the next page

832WC-B
(PART B)
Hazards Not Otherwise Classified

| Other Criteria | Hazard Statements/Precautionary Statement | Signal Word | Pictograms |
|----------------|---|----------------|----------------|
| None | None | Not applicable | Not applicable |

Section 3: Composition/Information on Ingredients

| CAS # | Chemical Name | %(weight) |
|------------|--|-----------|
| 100-51-6 | benzyl alcohol | 43% |
| 68609-08-5 | cyclohexanemethanamine | 32% |
| 2855-13-2 | 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 24% |

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, severe irritation, pain, burns, loss of vision</i> |
| Response | 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. |
| IF ON SKIN (or hair) | P303 + P361+ P353, P310, P333 + P313, P363 |
| Immediate Symptoms | <i>redness, irritation, rash (allergic contact dermatitis), pain, chemical burns, blistering</i> |
| Response | Take off immediately all contaminated clothing. Wash with plenty of water or shower. Immediately call a POISON CENTRE or doctor. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse. |

Section continued on the next page

832WC-B
(PART B)

| | |
|---------------------------|---|
| IF INHALED | P304 + P340, P310 |
| Immediate Symptoms | <i>cough, irritation of the respiratory track, burning sensation</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>irritation, abdominal pain, nausea, vomiting, burns to the digestive tract</i> |
| Response | Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor. |

Advice to Physicians

In case of exposure to nitrogen oxides (NO_x) combustion products vapors during a fire, the symptoms may be delayed. For significant exposures, 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 burns if involved in a fire. Produces irritating and toxic fumes in fires or in contact with hot surfaces. Inhalation of toxic smoke during fire may have delayed effects. Exposed person may need to be put under surveillance for 48 h. Toxic for aquatic environment: Prevent fire-fighting wash from entering waterway or sewer system. |
| Combustion Products | Produces carbon oxides (CO, CO ₂) and nitrogen oxides (NO _x). |
| Fire-Fighter | Wear self-contained breathing apparatus and full fire-fighting turn-out gear. |

832WC-B

(PART B)**Section 6: Accidental Release Measures**

| | |
|----------------------------------|--|
| Personal Protection | Use personal protection recommended in Section 8. |
| Precautions for Response | Do not breathe the fumes or vapors. |
| 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 container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe residue with a paper towel wetted with a suitable organic solvent such as alcohol or ethyl lactate, 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 or vapors. Avoid contact with skin or eyes. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Avoid release to the environment. |
| Handling | Wear protective gloves, protective clothing, eye protection, and face protection. Take off contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Collect spillage. |
| 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) |
|----------------------|--------------------------|--|--|
| benzyl alcohol | ACGIH | Not established | Not established |
| | U.S.A. OSHA PEL | Not established | Not established |
| | U.S.A (WEEL) | 10 ppm | Not established |
| | Canada AB | Not established | Not established |
| | Canada BC | Not established | Not established |
| | Canada ON | Not established | Not established |
| | Canada QC | Not established | Not established |

Note: The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS² database and 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.

Engineering Controls
Ventilation

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

Due to low vapor pressure of the product, general ventilation should be adequate for normal, small scale use. 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.

Section continued on the next page

832WC-B**(PART B)**

Respiratory Protection For over-exposures up to 10 x OEL of mist/vapors/spray, 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.

832WC-B
(PART B)
Section 9: Physical and Chemical Properties

| | | | |
|----------------------------------|----------------------|--|---------------------------|
| Physical State | Liquid | Lower Flammability Limit | Not available |
| Appearance | Clear | Upper Flammability Limit | Not available |
| Odor | Ammoniacal | Vapor Pressure @20 °C | 0.002 kPa [<0.02 mmHg] |
| Odor Threshold | Not available | Vapor Density | >5 (Air = 1) |
| pH | Not available | Relative Density @25 °C | 1.03 |
| Freezing/Melting Point | Not available | Solubility in Water | Slightly soluble |
| Initial Boiling Point | 247 °C [477 °F] | Partition Coefficient n-octanol/water | Not available |
| Flash Point ^{a)} | >112 °C [>234 °F] | Auto-ignition Temperature | Not available |
| Evaporation Rate | Not available | Decomposition Temperature | Not available |
| Flammability | Non flammable | Viscosity @25 °C | >300 mm ² /s |

a) literature closed cup value

Section 10: Stability and Reactivity

| | |
|----------------------------|--|
| Reactivity | Reacts exothermically with ketones, halogenated hydrocarbons, cyanides, nitriles, and epoxides. May attack metals such as aluminum, zinc, copper, and their alloys. May form explosive peroxides |
| 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 a mist or aerosolize the product. |
| 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. |

832WC-B**(PART B)****Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

| | |
|-------------------|---|
| Eyes | May cause redness, severe eye irritation, pain, burns and/or loss of vision. |
| Skin | May cause redness, serious skin irritation, allergic contact dermatitis, pain, blistering and/or chemical burns. |
| Inhalation | Inhalation of vapors or mist may cause cough, burning sensation and/or irritation to the nose, throat and lung (upper respiratory tract). |
| Ingestion | May cause severe irritation, abdominal pain, nausea, vomiting and/or corrosive burns to the mouth, throat, esophagus, and stomach. May cause allergic reactions. (See inhalation symptoms.) |
| Chronic | Prolonged and repeated exposure to uncured epoxy hardener may lead to skin sensitization. |

Acute Toxicity (Lethal Exposure Concentrations)

| Chemical Name | LD50 oral | LD50 dermal | LC50 inhalation |
|--|--------------------|------------------------|------------------------|
| benzyl alcohol | 1 620 mg/kg Rat | Not available | 4.2 mg/L 4 h Rat |
| cyclohexanemethanamine | Not available | Not available | Not available |
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine | 1 030 mg/kg Rat | >2 000 mg/kg Rabbit | >5.01 mg/L 4 h Rat |

Note: Toxicity data from the RTECS² and ECHA were consulted. The data from supplier SDS were also consulted.

Section continued on the next page

832WC-B**(PART B)****Other Toxicological Effects**

| | |
|--|--|
| Skin corrosion/irritation | Cyclohexanemethanamine and 3-aminomethyl-3,5,5-trimethylcyclohexylamine causes skin burns. |
| Serious eye damage/irritation | Cyclohexanemethanamine and 3-aminomethyl-3,5,5-trimethylcyclohexylamine causes serious eye damage. |
| Respiratory and skin sensitization (allergic reactions) | The epoxy hardener components (cyclohexanemethanamine and 3-aminomethyl-3,5,5-trimethylcyclohexylamine) 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) | Based on available data, the classification criteria are not met. |
| Reproductive Toxicity (risk to sex functions) | Based on available data, the classification criteria are not met. |
| 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 no category 1 components, and the kinematic viscosity is $>20.5 \text{ mm}^2/\text{s}$ at $40 \text{ }^\circ\text{C}$. |

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.

Cyclohexanemethanamine is classified as a chronic category 2 environmental toxicant LC50 range of 1–10 mg/L for fish; EC0 bacterial >10 and ≤ 100 mg/L.

3-aminomethyl-3,5,5-trimethylcyclohexylamine is classified as an acute category 3 environmental toxicant.

Based on available data, benzyl alcohol is not classified as aquatic environmental toxicant according to GHS criteria.

Section continued on the next page

832WC-B**(PART B)****Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds.

Chronic Ecotoxicity

Category 2

Toxic to aquatic life with long lasting effect

Avoid release to the environment. Collect spillage.

Biodegradability

Not readily biodegradable

Bioaccumulation

Not available

Other Effects

Not available

Section 13: Disposal Information

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

832WC-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 1 L and under
Part B of 832WC-375ML, 832WC-3L kits

Limited Quantity

Note: The 832WC-375ML and 832WC-3L kits are composed of separate containers which meet this inner packaging limit.



Sizes greater than 1 L (Cargo only)

Part B of 832WC-12L, 832WC-60L kits

UN number: UN2735

Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. * (cyclohexanemethanamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

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 832WC-375ML kit

Limited Quantity



Sizes greater than 0.5 L up to 1 L (Passenger), 5 L (Cargo)

Part B of 832WC-3L kit

UN number: UN2735

Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. * (cyclohexanemethanamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

Class: 8

Packing Group: II

Marine Pollutant: Yes



Section continued on the next page

832WC-B

(PART B)

Sea

| Refer to IMDG regulations. | |
|--|--|
| <p>Sizes 1 L and under <i>Part B of 832WC-375ML, 832WC-3L kits</i></p> <p>Limited Quantity Note: The 832WC-375ML and 832WC-3L kits are composed of separate containers which meet this inner packaging limit.</p>  | <p>Sizes greater than 1 L <i>Part B of 832WC-12L, 832WC-60L kits</i></p> <p>UN number: UN2735 Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. * (cyclohexanemethanamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine) Class: 8 Packing Group: II Marine Pollutant: Yes</p>   |

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.

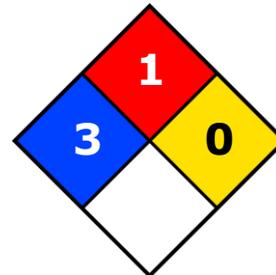
Hazardous Products Act (R.S.C., 1985, c. H-3)

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

Section continued on the next page

832WC-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, 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

| | |
|----------------------------|---|
| SDS Prepared by | MG Chemicals Regulatory Department |
| Date of Revision | 02 March 2020 |
| Supersedes | 07 February 2020 |
| Reason for Changes: | Update to the emergency phone number information. |

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 |
| 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 |

Section continued on the next page

832WC-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.

Email: support@mgchemicals.com

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.