

834HTC- A

**(PART A)**

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Identifier:** 834HTC-A**Other Means of Identification:** High Thermal Conductivity Epoxy (Part A)**Related Part #** 834HTC-900ML, 834HTC-4.25L

### Recommended Use and Restriction on Use

**Use:** Epoxy resin for use with hardeners**Uses Advised Against:** Not applicable

### 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**FAX** +1-800-340-0773**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)**TEL** +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 service  
CANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones

**834HTC- A**
**(PART A)**
**Section 2: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

| Criteria                             |         | Category | Signal Word | Pictograms  |
|--------------------------------------|---------|----------|-------------|-------------|
| Sensitization                        | Skin    | 1        | Warning     | Exclamation |
| Eye Irritation                       |         | 2        | Warning     | Exclamation |
| Skin Irritation                      |         | 2        | Warning     | Exclamation |
| Reproductive Toxicity                |         | 2        | Warning     | Health      |
| Hazardous to the 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**

|   |  |
|---|--|
| <b>Signal Word</b>  | <b>WARNING</b>   |
| <b>Pictograms</b>   | <b>Hazard Statements</b>   |
|  | H317: May cause an allergic skin reaction<br>H319: Causes serious eye irritation<br>H315: Causes skin irritation |
|  | H361: Suspected of damaging fertility or the unborn child if swallowed   |
|  | H411: Toxic to aquatic life with long lasting effects  |

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**834HTC- A**
**(PART A)**
*Continued...*

| <b>Prevention</b>  | <b>Precautionary Statements</b>  |
|--------------------|--|
| P102               | Keep out of reach of children.   |
| P201, P202         | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.                |
| P261               | Avoid breathing fumes and vapors.  |
| P280               | Wear protective gloves, eye protection, and face protection.   |
| P272               | Contaminated work clothing should not be allowed out of the workplace.   |
| 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.   |
| P308 + P313        | IF exposed or concerned: Get medical advice or attention.  |
| P391               | Collect spillage.  |
| <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, national, and international regulations.                                   |

**Hazards Not Otherwise Classified**

| <b>Other Criteria</b> | <b>Hazard Statements/Precautionary Statement</b>      | <b>Signal Word</b> | <b>Pictograms</b> |
|-----------------------|---|--------------------|-------------------|
| Defats skin           | Repeated exposure may cause skin dryness or cracking. | None               | None              |

**834HTC- A**
**(PART A)**
**Section 3: Composition/Information on Ingredients**

| <b>CAS #</b> | <b>Chemical Name</b>                                     | <b>%(weight)</b> |
|--------------|--|------------------|
| 21645-51-2   | aluminum trihydrate                                      | 40%              |
| 25085-99-8   | bisphenol-A-(epichlorhydrin)                             | 23%              |
| 1344-28-1    | aluminium oxide  | 17%              |
| 138265-88-0  | zinc borate  | 10%              |
| 17557-23-2   | neopentyl glycol diglycidyl ether                        | 7%               |
| 25068-38-6   | bisphenol-A epoxy resin (reaction product) <sup>a)</sup> | 1%               |
| 1333-86-4    | carbon black   | 0.4%             |
| 68609-97-2   | alkyl glycidyl ether                                     | 0.3%             |

a) Average molecular weight of  $\leq 700$

**Section 4: First-Aid Measures**

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

*Section continued on the next page*

**834HTC- A**
**(PART A)**
*Continued...*

|                           |  |
|---------------------------|--|
| <b>IF INHALED</b>         | P304 + P340, P312  |
| <b>Immediate Symptoms</b> | <i>cough, respiratory irritation</i>   |
| <b>Response</b>           | Remove person to fresh air and keep comfortable for breathing.<br>If you feel unwell: Get medical advice or attention. |
| <b>IF SWALLOWED</b>       | P308 + P313, P330  |
| <b>Immediate Symptoms</b> | <i>irritation</i>  |
| <b>Response</b>           | IF exposed or concerned: Get medical advice or attention.<br>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 burns if involved in a fire. Produces irritating smoke of unknown toxicity in fires.<br><br>Aluminum oxide fumes may cause metal fever and irritate the respiratory tract. The flu-like symptoms of metal fever may be delayed, occurring 4 to 12 hours after exposure.<br><br>Prevent fire-fighting wash from entering waterway or sewer system. |
| <b>Combustion Products</b> | Produces carbon oxides (CO,CO <sub>2</sub> ) and metal oxide fumes.   |
| <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>       | See personal protection recommendations in Section 8.   |
| <b>Precautions for Response</b>  | Avoid breathing the fumes and vapors. Remove or keep away all sources of extreme heat or open flames. |
| <b>Environmental Precautions</b> | Avoid releasing to the environment. Prevent spill from entering drains and waterways.                 |
| <b>Containment Methods</b>       | Contain with inert and non-flammable absorbent (such as soil, sand, vermiculite).                     |

*Section continued on the next page*

**834HTC- A****(PART A)**

|                         |   |
|-------------------------|---|
| <b>Cleaning Methods</b> | 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. Use 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.<br>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.<br>Avoid breathing fumes and vapors.<br>Avoid release to the environment.                                 |
| <b>Handling</b>   | Wear protective gloves, eye protection, and face protection.<br>Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.<br>Wash hands thoroughly after handling.<br>Collect spillage. |
| <b>Storage</b>    | Store locked up.<br>DO NOT FREEZE. Store in a clean and dry area between 5 to 35 °C.  |

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

| <b>Chemical Name</b>                                 | <b>Country</b>  | <b>Long Term Exposure Limits (PEL)</b> | <b>Short Term Exposure Limits (STEL)</b> |
|--|-----------------|--|--|
| aluminum metal and insoluble compounds <sup>a)</sup> | ACGIH           | 1 mg/m <sup>3</sup>                    | Not established                          |
|  | U.S.A. OSHA PEL | 15 mg/m <sup>3</sup>                   | Not established                          |
|  | Canada AB       | 10 mg/m <sup>3</sup>                   | Not established                          |
|  | Canada BC       | 1 mg/m <sup>3</sup>                    | Not established                          |
|  | Canada ON       | 1 mg/m <sup>3</sup>                    | Not established                          |
|  | Canada QC       | 10 mg/m <sup>3</sup>                   | Not established                          |
| aluminium oxide                                      | ACGIH           | Not established                        | Not established                          |
|  | U.S.A. OSHA PEL | 5 mg/m <sup>3</sup>                    | Not established                          |
|  | Canada AB       | 10 mg/m <sup>3</sup>                   | Not established                          |
|  | Canada BC       | Not established                        | Not established                          |
|  | Canada ON       | Not established                        | Not established                          |
|  | Canada QC       | 10 mg/m <sup>3</sup>                   | Not established                          |
| carbon black <sup>a)</sup>                           | ACGIH           | 3.5 mg/m <sup>3</sup>                  | Not established                          |
|  | U.S.A. OSHA PEL | 3.5 mg/m <sup>3</sup>                  | Not established                          |
|  | Canada AB       | 3.5 mg/m <sup>3</sup>                  | Not established                          |
|  | Canada BC       | 3 mg/m <sup>3</sup>                    | Not established                          |
|  | Canada ON       | 3.5 mg/m <sup>3</sup>                  | Not established                          |
|  | Canada QC       | 3.5 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 the RTECS<sup>2</sup> 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.

a) Respirable airborne particles

**Engineering Controls**
**Ventilation**

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

Note that the aluminum oxide, and carbon black are inextricably bound to the adhesive mixture; therefore, they are not available as airborne hazard under normal or foreseeable condition of use. Ensure adequate ventilation if the product is mechanically misted or aerosolized.

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**834HTC- A****(PART A)****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**

For over-exposures up to 10 x OEL of vapors or fumes, 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.

**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.



**834HTC- A**
**(PART A)**
**Section 9: Physical and Chemical Properties**

|  |                      |  |                      |
|--|----------------------|--|----------------------|
| <b>Physical State</b>                      | Liquid               | <b>Lower Flammability Limit</b>                | Not available        |
| <b>Appearance</b>                          | Black                | <b>Upper Flammability Limit</b>                | Not available        |
| <b>Odor</b>                                | Mild                 | <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>Relative Density @25 °C</b>                 | 1.86                 |
| <b>Freezing/Melting Point</b>              | Not available        | <b>Solubility in Water</b>                     | Negligible           |
| <b>Initial Boiling Point</b> <sup>a)</sup> | ≥150 °C<br>[≥302 °F] | <b>Partition Coefficient n-octanol/water</b>   | Not available        |
| <b>Flash Point</b> <sup>b)</sup>           | 250 °C<br>[482 °F]   | <b>Auto-ignition Temperature</b> <sup>b)</sup> | ≥315 °C<br>[≥599 °F] |
| <b>Evaporation Rate</b>                    | Not available        | <b>Decomposition Temperature</b>               | Not available        |
| <b>Flammability</b>                        | Non Flammable        | <b>Viscosity @25 °C</b>                        | 55 918 cP            |

a) Component with the lowest value—bisphenol-A epoxy resin (reaction product)

**Section 10: Stability and Reactivity**

|                            |  |
|----------------------------|--|
| <b>Reactivity</b>          | Reacts exothermically with amines.   |
| <b>Chemical Stability</b>  | Chemically stable at normal temperatures and pressures   |
| <b>Conditions to Avoid</b> | Ignition sources, open flames, and incompatible substances   |
| <b>Incompatibilities</b>   | Strong oxidizing agents, strong acids, alkaly  |
| <b>Polymerization</b>      | Will not occur   |
| <b>Decomposition</b>       | Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5. |

**834HTC- A**
**(PART A)**
**Section 11: Toxicological Information**
**Summary of Effects and Symptoms by Routes of Exposure**

|                   |   |
|-------------------|---|
| <b>Eyes</b>       | May cause redness, irritation, and/or pain.                                       |
| <b>Skin</b>       | May cause skin redness, irritation, dry skin, and/or allergic contact dermatitis. |
| <b>Inhalation</b> | May cause cough and respiratory irritation.                                       |
| <b>Ingestion</b>  | May cause irritation and is harmful if swallowed.                                 |
| <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>             |
|--|----------------------|----------------------|------------------------------------|
| aluminum trihydrate                        | Not available        | Not available        | Not available                      |
| bisphenol-A-(epichlorhydrin)               | 19 200 mg/kg<br>Rat  | 4 500 mg/kg<br>Rat   | Not available                      |
| aluminium oxide                            | >2 000 mg/kg<br>Rat  | Not available        | Not available                      |
| zinc borate                                | >10 000 mg/kg<br>Rat | >10 000 mg/kg<br>Rat | >5.0 mg/L<br>4 h Rat <sup>a)</sup> |
| bisphenol-A epoxy resin (reaction product) | >2 000 mg/kg<br>Rat  | >2 000 mg/kg<br>Rat  | Not available                      |
| carbon black                               | >15 g/kg<br>Rat      | >3 g/kg<br>Rabbit    | Not available                      |
| alkyl glycidyl ether                       | 19 000 mg/kg<br>Rat  | >4 000 mg/kg<br>Rat  | Not available                      |

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

a) Supplier value based on zinc (4:1) borate monohydrate

*Section continued on the next page*

**834HTC- A****(PART A)****Other Toxicological Effects**

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>                           | Causes skin irritation.   |
| <b>Serious eye damage/irritation</b>                       | Causes serious eye irritation.  |
| <b>Sensitization</b><br>(allergic reactions)               | Skin sensitizer based on animal studies on the epoxy components.  |
| <b>Carcinogenicity</b><br>(risk of cancer)                 | <p>The carbon black [1333-86-4] is possibly carcinogenic by airborne routes of exposures under WHMIS.</p> <p>Because the carbon black is bound in the epoxy liquid mixture, it is not available as an airborne hazard (dust, mist, or spray) under normal use.</p> <p><b>Carbon Black [1333-86-4]</b></p> <p>IARC Group 2B: Possibly carcinogenic to humans<br/>ACGIH A4: Not classified as a human carcinogen<br/>CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)<br/>NTP: Not listed</p> |
| <b>Mutagenicity</b><br>(risk of heritable genetic effects) | Based on available data, the classification criteria are not met.   |
| <b>Reproductive Toxicity</b><br>(risk to sex functions)    | Animal ingestion studies show that high doses of zinc borate cause reproductive and developmental effects.  |
| <b>Teratogenicity</b><br>(risk of fetus malformation)      | Based on available data, the classification criteria are not met.   |
| <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 met.   |
| <b>Aspiration hazard</b>                                   | 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.

In Europe, similar epoxy resin mixtures with CAS# 25068-38-6 and 25085-99-8 have an average molecular weight of less than 700 and are generally classified as chronic category 2 marine pollutant due to LC50 96 h of >1 mg/L but ≤10 mg/L.

The zinc borate is classified as a chronic category 1 environmental toxicant with a M-Factor of 1 (with minimal LC50 96 h of 2.4 mg/L for *Oncorhynchus mykiss* (rainbow trout); LC50 48 h of 76 mg/L *Daphnia magna* (water flea); and transformation/dissolution endpoint for zinc borate powder that release of 0.452 mg/L of zinc ion, which is higher than zinc's NOEC limit).

Based on available data, aluminum trihydrate, aluminium oxide, neopentyl glycol diglycidyl ether, carbon black, and alkyl glycidyl ether are not classified as environmental hazards according to GHS criteria.

### Acute Ecotoxicity

See chronic ecotoxicity.

### Chronic Ecotoxicity

Category 2

Toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

### Biodegradability

Not available

### Bioaccumulation

Not available

## Section 13: Disposal Information


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

**834HTC- A**

**(PART A)**

**Section 14: Transport Information**

**Ground**

|  |   |
|--|---|
| <p><b>Refer to TDG regulations</b> (Canadian Transportation of Dangerous Goods regulations);<br/><b>USA DOT 49 CFR</b> (Parts 100 to 185) <b>Regulations.</b></p>  |   |
| <p>Sizes under 450 L<br/><i>Part A of all 834HTC kits</i></p> <p><b>NOT REGULATED</b> in TDG per Special Provisions 99</p>   | <p>49 CFR: Sizes greater than 5 L</p> <p><b>UN number:</b> UN3082<br/><b>Shipping Name:</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin))<br/><b>Class:</b> 9<br/><b>Packing Group:</b> III<br/><b>Marine Pollutant:</b> Yes</p> |
| <p>Sizes 5 L and under<br/><i>Part A of 834HTC-900ML, 834HTC-4.25L kits</i></p> <p><b>NOT REGULATED</b> in 49 CFR per exception 171.4 (c)(2)</p>   | <div style="text-align: right;">  </div>   |
| <p><b>Special Provision 99 (2):</b> 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.</p> |   |

**Temperature sensitive—Keep between 5 °C and 35 °C.**

*Section continued on the next page*

**834HTC- A****(PART A)****Air****Refer to ICAO-IATA Dangerous Goods Regulations.**

Sizes 5 L and under  
*Part A of 834HTC-900ML,  
834HTC-4.25L kits*

**NOT REGULATED**

Not Restricted, as per  
Special Provisions A197

Sizes greater than 5 L

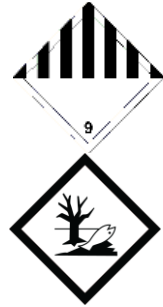
**UN number:** UN3082

**Shipping Name:** ENVIRONMENTALLY  
HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Reaction product: bisphenol-A-  
(epichlorhydrin))

**Class:** 9

**Packing Group:** III

**Marine Pollutant:** Yes



**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.

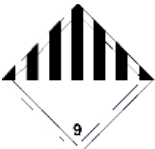

**Temperature sensitive—Keep between 5 °C and 35 °C.**

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**834HTC- A**

**(PART A)**

**Sea**

| Refer to IMDG regulations.  |  |
|---|--|
| <p>Sizes 5 L and under<br/><i>Part A of 834HTC-900ML, 834HTC-4.25L kits</i><br/><b>NOT REGULATED</b><br/>per 2.10.2.7</p>   | <p>Sizes greater than 5 L</p> <p><b>UN number:</b> UN3082<br/><b>Shipping Name:</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction product: bisphenol-A-(epichlorhydrin))<br/><b>Class:</b> 9<br/><b>Packing Group:</b> III<br/><b>Marine Pollutant:</b> Yes</p> <div style="text-align: right;"> <br/>  </div> |
| <p><b>2.10.2.7:</b> 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.</p> |  |

**Temperature sensitive—Keep between 5 °C and 35 °C.**

**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.

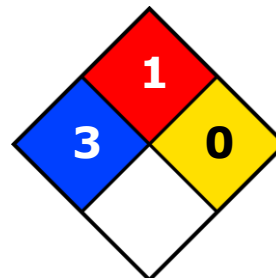
**Hazardous Products Act (R.S.C., 1985, c. H-3)**

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

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**834HTC- A****(PART A)****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 contains zinc borate (CAS# 138265-88-0), which have a 1 000 lb reporting quantity requirements in 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 contains carbon black, but it is bound and exposures during normal conditions of uses are below the Safe Harbor Threshold.

**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.



**834HTC- A****(PART A)****Section 16: Other Information**

|                            |   |
|----------------------------|---|
| <b>SDS Prepared by</b>     | MG Chemicals' Regulatory Department               |
| <b>Date of Review</b>      | 02 March 2020                                     |
| <b>Supersedes</b>          | 20 November 2019                                  |
| <b>Reason for Changes:</b> | 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  |

**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)

*Section continued on the next page*

**834HTC- A****(PART A)**

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

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

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