



Kit Revision Date: 06/09/2023

## 834BLV FLAME RETARDANT 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	834BLV-A	Resin for use with epoxy hardener
B	834BLV-B	Hardener for use with epoxy resin

*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.

834BLV-A

FLAME RETARDANT EPOXY (PART A)

# Safety Data Sheet

## Section 1: Identification



### Product Identifier and Other Means of Identification

**Product Name:** 834BLV-A**Other Means of Identification:** Flame Retardant Epoxy (Part A)**Related Part #** 834BLV-450ML, 834BLV-3L, 834BLV-60L

### Recommended Use and Restriction on Use

**Use:** Resin for use with epoxy hardener**Uses Advised Against:** Not for use as spray coating

### 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

**834BLV-A**
**FLAME RETARDANT EPOXY (PART A)**
**Section 2: Hazard(s) Identification**
**Classification of the Chemical Material**
**GHS Categories**

Criteria		Category	Signal Word	Pictograms
Sensitization	Skin	1	Warning	Exclamation
Eye Irritation		2	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	2	<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>
	H319: Causes serious eye irritation H315: Causes skin irritation H317: May cause an allergic skin reaction
	H411: Toxic to aquatic life with long lasting effects

*Section continued on the next page*

**834BLV-A**
**FLAME RETARDANT EPOXY (PART A)**
*Continued...*

<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P261	Avoid breathing fumes and vapors.
P280	Wear protective gloves and eye protection.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice or attention.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
<b>Storage</b>	<b>Precautionary Statements</b>
Not applicable	Not applicable
<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>
None	None	None	None

**834BLV-A**
**FLAME RETARDANT EPOXY (PART A)**
**Section 3: Composition/Information on Ingredients**

CAS #	Chemical Name	%(weight)
25085-99-8	propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers	53%
21645-51-2	aluminum trihydrate	23%
68333-79-9	ammonium polyphosphate	16%
108-65-6	2-methoxy-1-methylethyl acetate	0.9%
1333-86-4	carbon black	0.8%
8052-41-3	Stoddard solvent	0.4%
162627-21-6	polyphosphoric acids	0.3%
64742-47-8	kerosine	0.2%
64742-95-6	naphtha, petroleum, light aromatic	0.1%
1330-20-7	xylene	0.1%

**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>redness, severe irritation, pain</i>
<b>Response</b>	Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  If eye irritation persists: Get medical advice or attention.
<b>IF ON SKIN</b>	P302 + P352, P333 + P313, P362 + P364
<b>Immediate Symptoms</b>	<i>redness, irritation, rash, dry skin, allergic contact dermatitis</i>
<b>Response</b>	Wash with plenty of water.  Get medical advice or attention.  Take off contaminated clothing and wash it before reuse.
<b>IF INHALED</b>	P304 + P340
<b>Immediate Symptoms</b>	<i>Low Toxicity: cough, irritation of the respiratory track</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing.

*Continued on the next page*

**834BLV-A****FLAME RETARDANT EPOXY (PART A)****IF SWALLOWED** P301 + P330 + P331**Immediate Symptoms** *Low Toxicity: irritation, stomach/abdominal discomfort or pain***Response** Rinse mouth. Do NOT induce vomiting.**Section 5: Fire-Fighting Measures****Extinguishing Media** In case of fire: Use water fog or fine spray, alcohol-resistant foam, dry chemical or carbon dioxide.**Specific Hazards** Do not use direct water stream, may spread fire. Violent steam generation or eruption may occur upon application of direct water steam to hot liquids.

Container may rupture from gas generation in a fire situation. Dense smoke is emitted when burned without sufficient oxygen.

**Combustion Products** Produces carbon oxides (CO, CO<sub>2</sub>), phenolics, and toxic fumes.**Fire-Fighter** Wear self-contained breathing apparatus and full fire-fighting turn-out gear.**Section 6: Accidental Release Measures****Personal Protection** See personal protection recommendations in Section 8.**Precautions for Response** Avoid breathing fumes and 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 absorbent (such as soil, sand, vermiculite).**Cleaning Methods** Collect liquid in a sealable, chemical-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe 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.**Disposal Methods** Dispose of spill waste according to Section 13.

**834BLV-A**
**FLAME RETARDANT EPOXY (PART A)**
**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children. Avoid breathing fumes and vapors. Avoid release to the environment.
<b>Handling</b>	Wear protective gloves and eye protection. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Collect spillage.
<b>Storage</b>	Not applicable

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

<b>Chemical Name</b>	<b>Country or Vendor</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
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	3.0 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
Stoddard solvent	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	500 ppm	Not established
	Canada AB	100 ppm	Not established
	Canada BC	290 mg/m <sup>3</sup>	50 mg/m <sup>3</sup>
	Canada ON	100 ppm	Not established
	Canada QC	100 ppm	Not established

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**834BLV-A**
**FLAME RETARDANT EPOXY (PART A)**
*Continued...*

<b>Chemical Name</b>	<b>Country or Vendor</b>	<b>Long Term Exposure Limits (PEL)</b>	<b>Short Term Exposure Limits (STEL)</b>
kerosine	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	Not established	Not established
	Canada BC	200 mg/m <sup>3</sup>	Not established
	Canada ON	Not established	Not established
	Canada QC	Not established	Not established
xylene	ACGIH	100 ppm	150 ppm
	U.S.A. OSHA PEL	100 ppm	150 ppm
	Canada AB	100 ppm	150 ppm
	Canada BC	100 ppm	150 ppm
	Canada ON	100 ppm	150 ppm
	Canada QC	100 ppm	150 ppm

*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) Respirable airborne particles

### Engineering Controls

#### Ventilation

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

Because the carbon black is bound to the liquid mixture, it does not present an airborne hazard under normal use. Ensure adequate ventilation if the product is mechanically misted or aerosolized.

### 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*



**834BLV-A**
**FLAME RETARDANT EPOXY (PART A)**
**Respiratory Protection**

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.

Generally, for emergencies and exposure above 0.5 mg/m<sup>3</sup>, use a self-contained breathing apparatus with full face piece operated in a pressure positive mode.

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

**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	1.36%
<b>Appearance</b>	Black	<b>Upper Flammability Limit</b>	6.89%
<b>Odor</b>	Mild	<b>Vapor Pressure @25 °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>	1.51
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Not available
<b>Initial Boiling Point</b>	>110 °C [>230 °F]	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b>	Not available	<b>Auto-ignition Temperature <sup>a)</sup></b>	>220 °C [>428 °F]
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Non flammable	<b>Viscosity @25 °C</b>	3928 cP

**834BLV-A****FLAME RETARDANT EPOXY (PART A)****Section 10: Stability and Reactivity**

<b>Reactivity</b>	Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures.
<b>Conditions to Avoid</b>	Avoid prolonged exposure to temperatures above 250 °C. Avoid short term exposure to temperatures above 300 °C.
<b>Incompatibilities</b>	Avoid contact with oxidizing materials. Avoid contact with acids and bases. Avoid unintended contact with amines.
<b>Polymerization</b>	Will not occur on its own.
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

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

<b>Eyes</b>	May cause redness, severe eye irritation, and pain.
<b>Skin</b>	May cause redness, irritation, dry skin, and rash.
<b>Inhalation</b>	Mist may cause irritation to the nose, throat and lung (upper respiratory tract). Will result in cough.
<b>Ingestion</b>	It may cause irritation or abdominal discomfort. At higher concentrations symptoms include abdominal pain, diarrhoea, and unconsciousness.
<b>Chronic</b>	Prolonged and repeated exposure may lead to skin sensitization.

*Section continued on the next page*

**834BLV-A**
**FLAME RETARDANT EPOXY (PART A)**
**Lethal Exposure Concentrations**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers	>5 000 mg/kg Rat	52 000 mg/kg Rabbit	Not available
aluminum trihydrate	79 000 mg/kg Rat	Not available	Not available
ammonium polyphosphate	500 mg/kg Rat	Not available	Not available
2-methoxy-1-methylethyl acetate	>5 000 mg/kg Rat	5 000 mg/kg Rabbit	Not available
carbon black	>5 000 mg/kg Rat	3 000 mg/kg Rabbit	Not available
Stoddard solvent	>5 000 mg/kg Rat	>3 000 mg/kg Rabbit	>5.5 mg/L 4hr Rat
kerosine	8 000 mg/kg Rat	4 000 mg/kg Rat	>17.38 mg/L 4hr Rat
naphtha, petroleum, heavy alkylate	>5 000 mg/kg Rat	>2 000 mg/kg Rabbit	Not available
xylene	3523 mg/kg Rat	1100 mg/kg Rabbit	>11 mg/L 4hr Rat
Mixture ATE	2690 mg/kg	>5 000 mg/kg	>1 000 mg/L

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

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b>Respiratory and skin sensitization</b> (allergic reactions)	The epoxy resin components (CAS# 25085-99-8) may cause skin sensitization in humans.

*Section continued on the next page*

**834BLV-A****FLAME RETARDANT EPOXY (PART A)****Carcinogenicity**  
(risk of cancer)

The carbon black is a possible carcinogen by airborne routes of exposures. Because carbon black is bond in the epoxy liquid mixture, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal use.

**Carbon Black [1333-86-4]**

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A4: Not classified as a human carcinogen

CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)

NTP: Not listed

**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 <1% category 1 component and the kinematic viscosity is >20.5 mm<sup>2</sup>/s at 40 °C.

**834BLV-A****FLAME RETARDANT EPOXY (PART A)****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.

The epoxy resin (CAS# 25085-99-8) are generally classified as a chronic category 2 marine pollutant due to LC50 96 h of >1 mg/L and ≤10 mg/L.

Based on available data, carbon black is not classified as environmental hazard according to GHS criteria.

**Acute Ecotoxicity**

Not classified as acutely ecotoxic.

**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 Considerations**

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

**834BLV-A**

**FLAME RETARDANT EPOXY (PART A)**

**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 5 L and under  
*Part A of 834BLV-450ML, 834BLV-3L kits*  
**NOT REGULATED** in TDG  
per Special Provisions 99

Sizes 5 L and under  
834BLV-450ML, 834BLV-3L

**NOT REGULATED** in 49 CFR  
per exception 171.4 (c)(2)

49 CFR: Sizes greater than 5 L

*Part A of 834BLV-60L kit*

**UN number:** UN3082

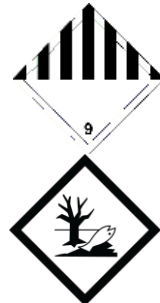
**Shipping Name:**

ENVIRONMENTALLY  
HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (propane, 2,2-  
bis[p-(2,3-  
epoxypropoxy)phenyl]-  
,polymers)

**Class:** 9

**Packing Group:** III

**Marine Pollutant:** Yes



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

*Section continued on the next page*

**834BLV-A****FLAME RETARDANT EPOXY (PART A)**

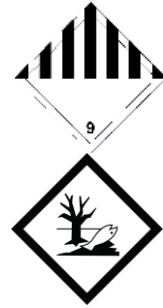
Air

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

Sizes 5 L and under

*Part A of 834BLV-450ML, 834BLV-3L kits***NOT REGULATED**Not Restricted, as per  
Special Provisions A197

Sizes greater than 5 L

*Part A of 834BLV-60L kit***UN number:** UN3082**Shipping Name:**ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(propane, 2,2-bis[p-(2,3-  
epoxypropoxy)phenyl]-, polymers)**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 packaging's meet the general provisions 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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**834BLV-A**

**FLAME RETARDANT EPOXY (PART A)**

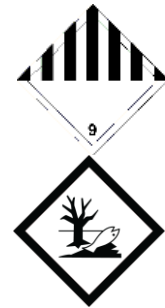
**Sea**

**Refer to IMDG regulations.**

Sizes 5 L and under  
*Part A of 834BLV-450ML, 834BLV-3L kits*  
**NOT REGULATED**  
per 2.10.2.7

Sizes greater than 5 L  
*Part A of 834BLV-60L kit*

**UN number:** UN3082  
**Shipping Name:**  
ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(propane, 2,2-bis[p-(2,3-  
epoxypropoxy)phenyl]-, polymers)  
**Class:** 9  
**Packing Group:** III  
**Marine Pollutant:** Yes



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

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

**Section 15: Regulatory Information**

**Canada**

**Domestic Substance List (DSL)/Non-Domestic Substance Lists (NDSL)**

All hazardous ingredients are listed on the DSL/NDSL.

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

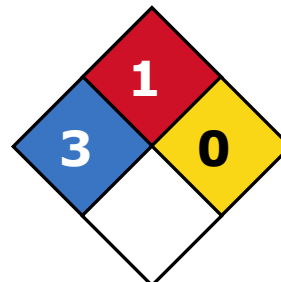
The safety data sheet and label comply with the Hazardous Product Act and WHMIS 2015.

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**834BLV-A****FLAME RETARDANT EPOXY (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 contain an "antimony compound", which is listed as hazardous air pollutants.

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

This product does not contain any substances on the EPCRA.

**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.

*Section continued on the next page*

**834BLV-A****FLAME RETARDANT EPOXY (PART A)****Europe****RoHS** (Restriction of Hazardous Substances Directive)

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

**WEEE** (Waste Electrical and Electronic Equipment Directive)

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

**Section 16: Other Information**

**Prepared by** Regulatory department

**Date of Revision** 25 May 2023

**Supersedes** Not applicable

**Reason for Changes:** First version of SDS.

**Reference**

1) ACGIH 2023 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 (2023).

**Abbreviations**

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

*Section continued on the next page*

**834BLV-A****FLAME RETARDANT EPOXY (PART A)**

**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

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

Phone: +1-905-331-1396

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

**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.

834BLV-B

FLAME RETARDANT EPOXY (PART B)

# Safety Data Sheet

## Section 1: Identification



### Product Identifier and Other Means of Identification

**Product Name:** 834BLV-B**Other Means of Identification:** Flame Retardant Epoxy (Part B)**Related Part #** 834BLV-450ML, 834BLV-3L, 834BLV-60L

### Recommended Use and Restriction on Use

**Use:** Hardener for use with epoxy resin**Uses Advised Against:** Not for use as spray coating

### 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



**ISO 9001:2015 Quality Management System**

SAI Global File #004008

Burlington, Ontario, Canada

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**834BLV-B**

**FLAME RETARDANT EPOXY (PART B)**

**834BLV-B**

**FLAME RETARDANT EPOXY (PART B)**

**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
Hazardous to the Aquatic Environment	Chronic	2	none	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>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H314: Causes severe skin burns and eye damage.
	H317: May cause an allergic skin reaction
	H411: Toxic to aquatic life with long lasting effects

*Section continued on the next page*

**834BLV-B**

**FLAME RETARDANT EPOXY (PART B)**

*Continued...*

<b>Prevention</b>	<b>Precautionary Statements</b>
P102	Keep out of reach of children.
P260	Do not breathe fumes, vapors, or mist.
P280	Wear protective gloves, protective clothing, and eye protection or face protection.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
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.
P310	Immediately call a POISON CENTER or doctor.
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>
None	None	None	None

**834BLV-B****FLAME RETARDANT EPOXY (PART B)****Section 3: Composition/Information on Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
68082-29-1	reaction product of Fatty acids, C18-unsatd., dimers and trimers with amines, polyethylenepoly-, triethylenetetramine fraction	40%
21645-51-2	aluminum trihydrate	23%
68333-79-9	ammonium polyphosphate	16%
112-24-3	triethylenetetramine	4%
112-57-2	3,6,9-triazaundecamethylenediamine	2%
108-65-6	2-methoxy-1-methylethyl acetate	0.9%
1333-86-4	carbon black	0.8%
8052-41-3	Stoddard solvent	0.4%
162627-21-6	polyphosphoric acids, reaction products with 2-oxepanone and polyethylene glycol monomethylether	0.3%
64742-95-6	solvent naphtha (petroleum), light aromatic	0.1%



**834BLV-B****FLAME RETARDANT EPOXY (PART B)****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 at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor
<b>IF ON SKIN (or hair)</b>	P302 + P361 + P352, P310, P333 + P313
<b>Immediate Symptoms</b>	<i>redness, irritation, rash, pain, burns, blistering</i>
<b>Response</b>	Take off immediately all contaminated clothing. Wash with plenty of water. Immediately call a POISON CENTRE or doctor. If skin irritation or rash occurs: Get medical advice or attention.
<b>IF INHALED</b>	P304 + P340, P310
<b>Immediate Symptoms</b>	<i>cough, irritation of the respiratory track, burning sensation</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
<b>IF SWALLOWED</b>	P301 + P330 + P331, P310
<b>Immediate Symptoms</b>	<i>burns to mouth, throat, stomach, abdominal pain, nausea, vomiting, diarrhea</i>
<b>Response</b>	Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTRE or doctor.

**834BLV-B**

**FLAME RETARDANT EPOXY (PART B)**

**Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: Use water fog or fine spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Specific Hazards</b>	Not flammable or combustible but will burn if involved in a fire. It should self-extinguish when removed from external flame sources.  Prevent fire-fighting wash from entering waterway or sewer system.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), and toxic fumes.
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**834BLV-B****FLAME RETARDANT EPOXY (PART B)****Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	Do not breathe the fumes, vapors or mist. 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 absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</b>	Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe off residues with paper towels and place the used towels in the waste container. Wash spill area with soap and water to remove the last traces of residue.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children. Do not breathe fumes, vapors or mist. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.
<b>Handling</b>	Wear protective gloves, protective clothing, and eye protection or face protection. Take off contaminated clothing and wash it before reuse. Collect spillage.
<b>Storage</b>	Store locked up.

**834BLV-B**
**FLAME RETARDANT EPOXY (PART B)**
**Section 8: Exposure Controls/Personal Protection**
**Substances with Occupational Exposure Limit Values**

<b>Chemical Name</b>	<b>Country or Vendor</b>	<b>Long Term Exposure Limits (PEL)</b>	<b>Short Term Exposure Limits (STEL)</b>
aluminium metal and insoluble compounds	ACGIH	1 mg/m <sup>3</sup>	Not established
	U.S.A. OSHA PEL	15 mg/m <sup>3</sup>	Not established
	U.S.A (WEEL)	10 mg/m <sup>3</sup>	Not established
	Canada AB	1 mg/m <sup>3</sup>	Not established
	Canada BC	1 mg/m <sup>3</sup>	Not established
	Canada ON	10 mg/m <sup>3</sup>	Not established
triethylenetetramine	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	U.S.A (WEEL)	1 ppm	Not established
	Canada AB	Not established	Not established
	Canada BC	Not established	Not established
	Canada ON	0.5 mg/m <sup>3</sup> (Skin)	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	3.0 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
Stoddard solvent	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	500 ppm	Not established
	Canada AB	100 ppm	Not established
	Canada BC	290 mg/m <sup>3</sup>	50 mg/m <sup>3</sup>
	Canada ON	100 ppm	Not established
	Canada QC	100 ppm	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) Respirable airborne particles

*Section continued on the next page*

**834BLV-B****FLAME RETARDANT EPOXY (PART B)****Engineering Controls****Ventilation**

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

Because the carbon black is bound to the liquid mixture, it does not present an airborne hazard under normal use. Ensure adequate ventilation if the product is mechanically misted or aerosolized.

**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**

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.

Generally, for emergencies and exposure above 0.5 mg/m<sup>3</sup>, use a self-contained breathing apparatus with full face piece operated in a pressure positive mode.

**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.

**834BLV-B**
**FLAME RETARDANT EPOXY (PART B)**
**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	1.17%
<b>Appearance</b>	Black	<b>Upper Flammability Limit</b>	6.62%
<b>Odor</b>	Mild, amine like	<b>Vapor Pressure @25 °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>	1.30
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Practically insoluble
<b>Initial Boiling Point</b>	>110 °C [>230 °F]	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b>	Not available	<b>Auto-ignition Temperature</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Decomposition Temperature</b>	Not available
<b>Flammability</b>	Non flammable	<b>Viscosity @25 °C</b>	2 495 cP

**Section 10: Stability and Reactivity**

<b>Reactivity</b>	Will not react violently.
<b>Chemical Stability</b>	Chemically stable.
<b>Conditions to Avoid</b>	Avoid all sources of ignition: heat, sparks, open flame. Avoid electrostatic discharge. Do not heat over: 290 °C.
<b>Incompatibilities</b>	Strong oxidizing agents, strong acids, strong bases, and strong oxidants.
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**834BLV-B****FLAME RETARDANT EPOXY (PART B)****Section 11: Toxicological Information****Summary of Effects and Symptoms by Routes of Exposure**

<b>Eyes</b>	May cause chemical burns or severe eye irritation, redness, and pain.
<b>Skin</b>	May cause chemical burns and serious skin irritation. May cause skin sensitization. Triethylenetetramine can be absorbed through skin.
<b>Inhalation</b>	Cough. Sore throat. Burning sensation. Shortness of breath. Labored breathing.
<b>Ingestion</b>	Single dose oral toxicity is low. It may cause burns or severe irritation to the digestive tract.
<b>Chronic</b>	Prolonged and repeated exposure may lead to skin sensitization reactions.

*Section continued on the next page*

**834BLV-B**
**FLAME RETARDANT EPOXY (PART B)**
**Lethal Exposure Concentrations**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
reaction product of Fatty acids, C18-unsatd., dimers and trimers with amines, polyethylenepoly-, triethylenetetramine fraction	>2 000 mg/kg Rat	>2 000 mg/kg Rat	Not available
aluminum trihydrate	79 000 mg/kg Rat	Not available	Not available
ammonium polyphosphate	500 mg/kg Rat	Not available	Not available
triethylenetetramine	2 500 mg/kg Rat	805 mg/kg Rabbit	Not available
3,6,9-triazaundecamethylenediamine	3 990 mg/kg Rat	659 mg/kg Rabbit	Not available
2-methoxy-1-methylethyl acetate	>5 000 mg/kg Rat	5 000 mg/kg Rabbit	Not available
carbon black	>5 000 mg/kg Rat	3 000 mg/kg Rabbit	Not available
Stoddard solvent	>5 000 mg/kg Rat	>3 000 mg/kg Rabbit	>5.5 mg/L 4hr Rat
polyphosphoric acids, reaction products with 2-oxepanone and polyethylene glycol monomethylether	Not available	Not available	Not available
solvent naphtha (petroleum), light aromatic	>5 000 mg/kg Rat	>2 000 mg/kg Rabbit	Not available
xylene	3 523 mg/kg Rat	1 100 mg/kg Rabbit	>11 mg/L 4hr Rat
Mixture ATE	waived corrosive	3 429 mg/kg	>1 000mg/L

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

*Section continued on the next page*



**834BLV-B****FLAME RETARDANT EPOXY (PART B)****Other Toxicological Effects****Skin corrosion/irritation**

Triethylenetetramine (CAS# 112-24-3) and 3,6,9-triazaundecamethylenediamine (CAS# 112-57-2) can cause skin burns.

**Serious eye damage/irritation**

Triethylenetetramine (CAS# 112-24-3) and 3,6,9-triazaundecamethylenediamine (CAS# 112-57-2) can cause severe eye damage.

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

The epoxy hardener components (CAS# 68082-29-1, 112-24-3, and 112-57-2) may cause skin sensitization in humans.

**Carcinogenicity**  
(risk of cancer)

The carbon black is a possible carcinogen by airborne routes of exposures. Because carbon black is bound in the epoxy liquid mixture, it is not expected to be available as an airborne hazard (dust, mist, or spray) under normal use.

**Carbon Black [1333-86-4]**

IARC Group 2B: Possibly carcinogenic to humans

ACGIH A4: Not classified as a human carcinogen

CA Prop 65: Listed as a carcinogen (airborne, as unbound particles of respirable size)

NTP: Not listed

**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. The kinematic viscosity is  $>20.5 \text{ mm}^2/\text{s}$  at  $40 \text{ }^\circ\text{C}$ .

*Section continued on the next page*

**834BLV-B****FLAME RETARDANT EPOXY (PART B)****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.

The Reaction product of Fatty acids, C18-unsatd., dimers and trimers with amines, polyethylenepoly-, triethylenetetramine fraction (CAS# 68082-29-1) was classified as a chronic category 2 environmental toxicant.

Literature for the triethylenetetramine (CAS# 112-24-3) suggest low category 3 aquatic toxicity (LC50, IC50, and EC50 values of >100 mg/L for fish and between 10 and 100 for algae).

Based on available data, carbon black is not classified as environmental hazard 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

**834BLV-B**

**FLAME RETARDANT EPOXY (PART B)**

**Section 13: Disposal Considerations**

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

**Section 14: Transport Information**

**Ground**

**Refer to TDG regulations** (Canadian Transportation of Dangerous Goods regulations); **USA DOT 49 CFR** (Parts 100 to 185) **Regulations.**

Sizes 1 L and under  
Part B of 834BLV-450ML, 834BLV-3L kits  
**Limited Quantity**



Sizes greater than 1 L (Cargo only)

Part B of 834BLV-60L kit

**UN number:** UN2735

**Shipping Name:** AMINES,  
LIQUID, CORROSIVE, N.O.S.  
(triethylenetetramine)



**Class:** 8

**Packing Group:** II

**Marine Pollutant:** Yes



Note: The 834BLV-450ML and 834BLV-3L kits are composed of separate containers which meet this inner packaging limit.

**Air**

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

Sizes 0.5 L and under  
Part B of 834BLV-450ML



**Limited Quantity**

Sizes greater than 0.5 L up to 1 L

Part B of 834BLV-3L,  
834BLV-60L kit

**UN number:** UN2735

**Shipping Name:** AMINES,  
LIQUID, CORROSIVE, N.O.S.  
(triethylenetetramine)



**Class:** 8

**Packing Group:** II

**Marine Pollutant:** Yes



Note: The 834BLV-450ML kit are composed of separate containers which meet this inner packaging limit.

**834BLV-B****FLAME RETARDANT EPOXY (PART B)***Section continued on the next page***Sea****Refer to IMDG regulations.**

Sizes 1 L and under  
*Part B of 834BLV-450ML,  
834BLV-3L kits*  
**Limited Quantity**



Sizes greater than 1 L  
*Part B of 834BLV-60L kit*  
**UN number:** UN2735  
**Shipping Name:** AMINES,  
LIQUID, CORROSIVE, N.O.S.  
(triethylenetetramine)  
**Class:** 8  
**Packing Group:** II  
**Marine Pollutant:** Yes



Note: The 834BLV-450ML and 834BLV-3L kits are composed of separate containers which meet this inner packaging limit.

**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.

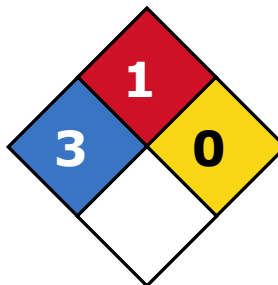
**Hazardous Products Act (R.S.C., 1985, c. H-3)**

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

*Section continued on the next page*

**834BLV-B****FLAME RETARDANT EPOXY (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 contain an "antimony compound", which is listed as hazardous air pollutants.

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

This product is EPCRA compliant.

**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.

*Section continued on the next page*

**834BLV-B****FLAME RETARDANT EPOXY (PART B)****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**

**MSDS Prepared by** Regulatory Department

**Date of Revision** 25 May 2023

**Supersedes** Not applicable.

**Reason for Changes:** First version of SDS.

**Reference**

1) ACGIH 2023 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 (2023).

*Section continued on the next page*

**834BLV-B****FLAME RETARDANT EPOXY (PART B)****Abbreviations**

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

**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at [www.mgchemicals.com](http://www.mgchemicals.com).

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

Phone: +1-905-331-1396

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

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