

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 WeB www.mgchemicals.com**

畲 Fax +1-905-331-1396 +1-905-331-2682

E-MAIL (Competent Person): <a href="mailto:sds@mgchemicals.com">sds@mgchemicals.com</a>

### **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

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### 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	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**

Signal Word	WARNING
Pictograms	Hazard Statements
~	H319: Causes serious eye irritation
	H315: Causes skin irritation
$\checkmark$	H317: May cause an allergic skin reaction
¥2	H411: Toxic to aquatic life with long lasting effects

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Continued	
Prevention	Precautionary Statements
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.
Response	Precautionary Statements
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.
Storage	Precautionary Statements
Not applicable	Not applicable
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	None	None



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Section 3: Composition/Information on Ingredients		
Chemical Name	%(weight)	
propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers	53%	
aluminum trihydrate	23%	
ammonium polyphosphate	16%	
2-methoxy-1-methylethyl acetate	0.9%	
carbon black	0.8%	
Stoddard solvent	0.4%	
polyphosphoric acids	0.3%	
kerosine	0.2%	
naphtha, petroleum, light aromatic	0.1%	
xylene	0.1%	
	Chemical Name propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,polymers aluminum trihydrate ammonium polyphosphate 2-methoxy-1-methylethyl acetate carbon black Stoddard solvent polyphosphoric acids kerosine naphtha, petroleum, light aromatic	

### **Section 4: First-Aid Measures**

Exposure Condition	GHS Code: Precautionary Statement	
IF IN EYES	P305 + P351 + P338, P337 + P313	
Immediate Symptoms	redness, severe irritation, pain	
Response	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.	
IF ON SKIN	P302 + P352, P333 + P313, P362 + P364	
Immediate Symptoms	redness, irritation, rash, dry skin, allergic contact dermatitis	
Response	Wash with plenty of water.	
	Get medical advice or attention.	
	Take off contaminated clothing and wash it before reuse.	
IF INHALED	P304 + P340	
Immediate Symptoms	Low Toxicity: cough, irritation of the respiratory track	
Response	Remove person to fresh air and keep comfortable for breathing.	
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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	g 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.
<b>Combustion Products</b>	Produces carbon oxides (CO, $CO_2$ ), 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.	
<b>Containment Methods</b>	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.	

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### Section 7: Handling and Storage

Prevention	Keep out of reach of children.
	Avoid breathing fumes and vapors.
	Avoid release to the environment.
Handling	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.
Storage	Not applicable

### 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)
aluminum metal	ACGIH	1 mg/m <sup>3</sup>	Not established
and insoluble	U.S.A. OSHA PEL	15 mg/m <sup>3</sup>	Not established
compounds <sup>a)</sup>	Canada AB	10 mg/m <sup>3</sup>	Not established
	Canada BC	1 mg/m <sup>3</sup>	Not established
	Canada ON	$1 \text{ mg/m}^3$	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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Chemical Name	Country or Vendor	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
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 Eq	uipment
Eye protection	Wear appropriate protective eyeglasses or chemical safety goggles.
	<b>RECOMMENDATION:</b> 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.
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**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  $0.5 \text{ mg/m}^3$ , 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**

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



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#### **Section 10: Stability and Reactivity**

Reactivity	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.
Conditions to Avoid	Avoid prolonged exposure to temperatures above 250 °C. Avoid short term exposure to temperatures above 300 °C.
Incompatibilities	Avoid contact with oxidizing materials. Avoid contact with acids and bases. Avoid unintended contact with amines.
Polymerization	Will not occur on its own.
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 eye irritation, and pa	ain.
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**Skin** May cause redness, irritation, dry skin, and rash.

- **Inhalation** Mist may cause irritation to the nose, throat and lung (upper respiratory tract). Will result in cough.
- **Ingestion** It may cause irritation or abdominal discomfort. At higher concentrations symptoms include abdominal pain, diarrhoea, and unconsciousness.
- **Chronic** Prolonged and repeated exposure may lead to skin sensitization.

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### **Lethal Exposure Concentrations**

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
propane, 2,2-bis[p-(2,3-	>5 000 mg/kg	52 000 mg/kg	Not
epoxypropoxy)phenyl]-,polymers	Rat	Rabbit	available
aluminum trihydrate	79 000 mg/kg	Not	Not
	Rat	available	available
ammonium polyphosphate	500 mg/kg	Not	Not
	Rat	available	available
2-methoxy-1-methylethyl acetate	>5 000 mg/kg	5 000 mg/kg	Not
	Rat	Rabbit	available
carbon black	>5 000 mg/kg	3 000 mg/kg	Not
	Rat	Rabbit	available
Stoddard solvent	>5 000 mg/kg	>3 000 mg/kg	>5.5 mg/L
	Rat	Rabbit	4hr Rat
kerosine	8 000 mg/kg	4 000 mg/kg	>17.38 mg/L
	Rat	Rat	4hr Rat
naphtha, petroleum, heavy alkylate	>5 000 mg/kg	>2 000 mg/kg	Not
	Rat	Rabbit	available
xylene	3523 mg/kg	1100 mg/kg	>11 mg/L
	Rat	Rabbit	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	
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory and skin sensitization (allergic reactions)	The epoxy resin components (CAS# 25085-99-8) may cause skin sensitization in humans.

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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
<b>Mutagenicity</b> (risk of heritable genetic effects)	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity</b> (risk to sex functions)	Based on available data, the classification criteria are not met.
<b>Teratogenicity</b> (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.

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#### **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 (<u>http://echa.europa.eu</u>), 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  $\leq$ 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.

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#### **Section 14: Transport Information**

#### Ground

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

Sizes 5 L and under	49 CFR: Sizes greater than 5 L
<i>Part A of 834BLV-450ML, 834BLV-3L kits</i> <b>NOT REGULATED</b> in TDG per Special Provisions 99	Part A of 834BLV-60L kit UN number: UN3082 Shipping Name: ENVIRONMENTALLY
Sizes 5 L and under 834BLV-450ML, 834BLV-3L	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (propane, 2,2- bis[p-(2,3- epoxypropoxy)phenyl]- ,polymers)
<b>NOT REGULATED</b> in 49 CFR per exception 171.4 (c)(2)	Class: 9 Packing Group: III Marine Pollutant: Yes

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

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#### Air

#### **Refer to ICAO-IATA Dangerous Goods Regulations.** Sizes 5 L and under Sizes greater than 5 L Part A of 834BLV-450ML, 834BLV-3L Part A of 834BLV-60L kit kits **UN number**: UN3082 **NOT REGULATED** Not Restricted, as per Shipping Name: ENVIRONMENTALLY HAZARDOUS Special Provisions A197 SUBSTANCE, LIQUID, N.O.S. (propane, 2,2-bis[p-(2,3epoxypropoxy)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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#### Sea

Refer to IMDG regulations.		
Sizes 5 L and under Part A of 834BLV-450ML, 834BLV-3L kits	Sizes greater than 5 L Part A of 834BLV-60L kit	
NOT REGULATED per 2.10.2.7	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 <u>trained and certified</u> 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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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 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.

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#### 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

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**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at <u>www.mgchemicals.com</u>.

Email: <u>support@mgchemicals.com</u>

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.

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