

832TC-A

(PART A)

# **Safety Data Sheet**

#### Section 1: Identification

#### **Product Identifier and Other Means of Identification**

**Product Identifier: 832TC-A** 

Other Means Of Identification: Thermally Conductive Epoxy: Encapsulating and Potting

Compound (Part A)

Related Part # 832TC-450ML, 832TC-450MLCA, 832TC-2L, 832TC-8L, 832TC-40L

#### Recommended Use and Restriction on Use

**Use:** Thermally conductive 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 CANADA

#1-800-340-0772

FAX +1-800-340-0773

E-MAIL support@mgchemicals.com

www.mgchemicals.com

MG Chemicals (Head Office)

9347-193 Street

Surrey, British Columbia V4N 4E7

CANADA

+1-905-331-1396 FAX +1-905-331-2682 E-MAIL info@mgchemicals.com

**E-MAIL** (Competent Person): sds@mgchemicals.com

### **Emergency Phone Number**

**For hazardous material incidents ONLY** (leaks, spills, fires, exposures or accidents) USA or CANADA—Call Verisk 3E at +1-866-519-4752 or +1-760-476-3962 (Service access code: 335388)

For emergencies involving the transport of dangerous goods; 24/7 service CANADA—Call CANUTEC collect at +1-613-996-6666 or \*666 on cellular phones



832TC-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
Hazardous to the Aquatic Environment	Chronic	2	none	Environment
	Acute	2	none	none

Note: The degree of severity is ranked within each hazard class from

# **Label Elements**

Signal Word	WARNING
Pictograms	Hazard Statements
	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

<sup>1 (</sup>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.



832TC-A (PART A)

Continued ...

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



832TC-A (PART A)

# **Section 3: Composition/Information on Ingredients**

CAS #	Chemical Name	%(weight)
28064-14-4	phenyl glycidyl ether/ formaldehyde copolymer	48%
1344-28-1	aluminium oxide	47%
25068-38-6	bisphenol-A epoxy resin (reaction product)	2%
64741-65-7	naphtha, petroleum, heavy alkylate	1%
1333-86-4	carbon black	0.7%
68609-97-2	alkyl glycidyl ether	0.2%

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

Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF IN EYES	P305 + P351 + P338, P337 + P313
Immediate Symptoms	redness, 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, dry skin, allergic contact dermatitis
Response	Wash with plenty of water.
	If skin irritation or rash occurs: Get medical advice or attention.
	Take off contaminated clothing and wash it before reuse.
IF INHALED	P304 + P340
Immediate Symptoms	cough, irritation of the respiratory track
Response	Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED	P301 + P330, P331
Immediate Symptoms	irritation
Response	Rinse mouth. Do NOT induce vomiting.

SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

# **Section 5: Fire-Fighting Measures**

**Extinguishing Media** In case of fire: Use extinguishing media suitable for

surrounding materials.

**Specific Hazards** Not flammable or combustible, but burns if involved in a fire.

Produces irritating smoke of unknown toxicity in fires.

Prevent fire-fighting wash from entering waterway or sewer

system.

**Combustion Products** Produces carbon oxides (CO,CO<sub>2</sub>) 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 the fumes or vapors. Remove or keep away all sources of extreme heat or open flames.

**Environmental** 

**Precautions** 

Avoid releasing to the environment. Prevent spill from entering

drains and waterways.

**Containment Methods** Contain with inert and non-flammable absorbent (such as soil,

sand, vermiculite).

Cleaning Methods Collect liquid in a sealable, chemical-resistant container.

> Sprinkle inert absorbent compound onto spill, then sweep into the container. Wipe the residues with a paper towel and place dirty towels in container. Use soap and water to remove the

last traces of residue.

**Disposal Methods** Dispose of spill waste according to Section 13.

SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

# **Section 7: Handling and Storage**

**Prevention** Keep out of reach of children.

Avoid breathing fumes or vapors.

Avoid release to the environment.

**Handling** Wear protective gloves and eye protection.

Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before

reuse.

Wash hands and exposed skin thoroughly after handling.

Collect spillage.

**Storage** 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**

Chemical Name	Country/Province	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
aluminum oxide <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
naphtha, petroleum,	ACGIH	100 ppm (525 mg/m <sup>3</sup> )	Not established
heavy distillate	U.S.A. OSHA PEL	500 ppm (2 900 mg/m <sup>3</sup> )	Not established
	Canada AB	572 mg/m <sup>3</sup>	Not established
	Canada BC	290 mg/m <sup>3</sup>	580 mg/m <sup>3</sup>
	Canada ON	100 ppm	Not established
	Canada QC	525 mg/m <sup>3</sup>	Not established



SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

Continued...

Chemical Name	Country/Province	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
carbon black <sup>a)</sup>	ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC	3.5 mg/m <sup>3</sup> 3.5 mg/m <sup>3</sup> 3.5 mg/m <sup>3</sup> 3 mg/m <sup>3</sup> 3.5 mg/m <sup>3</sup>	Not established Not established Not established Not established Not established 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	General ventila

General ventilation is adequate for normal use; keep overall

exposure as low as possible.

Because the carbon black and aluminum oxide are bound to the liquid mixture, they do not present an airborne hazard under normal use. Ensure adequate ventilation if the product is

mechanically misted or aerosolized.

### **Personal Protective Equipment**

	14/			· l C . l
Eve protection	Wear appropriate	e protective eve	alasses or cnem	icai saretv

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 Not normally required, but if exposed to high levels of mist,

vapors or fumes, wear respirator such as a half-mask

respirator with organic vapor cartridge.

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.

Section continued on the next page

Page **7** of **18** 

SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

**Respiratory Protection** Not normally required, but if exposed to high levels of mist, vapors or fumes, wear respirator such as a half-mask respirator with organic vapor cartridge.

> If the product is heated or worker has a known allergic reaction, consider using a full mask with organic vapor cartridge or with an independent air supply.

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

# **General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

# **Section 9: Physical and Chemical Properties**

Physical State	Liquid	Lower Flammability Limit	Not available
Appearance	Black	Upper Flammability Limit	Not available
Odor	Mild aromatic	Vapor Pressure @20 °C	Not available
Odor Threshold	Not available	Vapor Density	>1 (Air = 1)
pH	Not available	Relative Density @25 °C	1.73
Freezing/Melting Point	Not available	Solubility in Water	Insoluble
Initial Boiling Point	>150 °C [>302 °F]	Partition Coefficient n-octanol/water	Not available
Flash Point a)	150 °C [302 °F]	Auto-ignition Temperature	Not available
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Non Flammable	Viscosity @25 °C	36 000 cP

a) The closed cup flash point based on phenyl glycidyl ether/formaldehyde copolymer.



SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

# Section 10: Stability and Reactivity

**Reactivity** Reacts exothermically with amines.

Chemical Stability

Chemically stable at normal temperatures and pressures.

**Conditions to** 

Avoid

Avoid excessive heat and incompatible substances. Do not use in a

way that forms a mist or aerosolize the product.

**Incompatibilities** Strong oxidizing agents, strong bases, strong acids, halogenated

hydrocarbons

**Polymerization** Will not occur

**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** Causes eye redness, irritation, or pain.

**Skin** Causes skin redness, irritation, dry skin, or allergic contact dermatitis.

**Inhalation** Inhalation of vapors or fumes may cause irritation to the nose, throat

and lung (upper respiratory tract).

**Ingestion** Low toxicity: May cause irritation. Also see inhalation symptoms.

**Chronic** Prolonged or repeated exposure to the uncured epoxy resins used may

cause dermatitis and sensitization.



832TC-A

(PART A)

# **Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
phenyl glycidyl ether/	4 000 mg/kg	Not	6 000 mg/kg
formaldehyde copolymer	Rabbit <sup>a)</sup>	available	Rabbit <sup>a)</sup>
aluminum oxide	>2 000 mg/kg	Not	Not
	Rat <sup>a)</sup>	available	available
bisphenol-A-(epichlorhydrin)	>2 000 mg/kg	23 000 mg/kg	Not
	Rat	7 h Rabbit <sup>a)</sup>	available
naphtha, petroleum, heavy	>7 600 mg/kg	>3 040 mg/kg	Not
alkylate	Rat	Rabbit <sup>a)</sup>	available
carbon black	>15 g/kg	>3 g/kg	Not
	Rat	Rabbit	available
alkyl glycidyl ether	19 200 mg/kg	4 500 mg/kg	Not
	Rat <sup>a)</sup>	Rat <sup>a)</sup>	available

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

a) According to supplier safety data sheet

Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

# **Other Toxicological Effects**

**Skin corrosion/irritation** Based on rabitt studies, the epoxy resin components

cause skin irritation.

Serious eye

damage/irritation

Sensitization
(allergic reactions)

Carcinogenicity (risk of cancer)

Based on rabbit studies, the epoxy resin components cause serious eye irritation.

The epoxy resin components (CAS# 28064-14-4, 25068-38-6, and 68609-97-2) may cause skin

sensitization in humans.

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.

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% components, and the kinematic viscosity is >20.5 mm<sup>2</sup>/s at 40 °C.

SAI Global File #004008

Burlington, Ontario, Canada

(PART A)

832TC-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.

In Europe, similar epoxy resins with CAS# 28064-14-4 and 25068-38-6 are generally classified as category 2 marine pollutants due to a LC50 96 h of >1 mg/L but ≤10 mg/L with chronic toxic effects.

Naptha, petroleum, heavy alkylate is classified as category 2 chronic environmental toxicant.

Based on available data, aluminum oxide, carbon black and alkyl glycidyl ether 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**

The content is not readily biodegradable.

#### **Bioaccumulation**

Not available

#### Other Effects

Not available

# **Section 13: Disposal Information**

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

SAI Global File #004008 Burlington, Ontario, Canada

832TC-A

(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 under 450 L
Part A of all 832TC kits

**NOT REGULATED** in TDG per Special Provisions 99(2)

Sizes 5 L and under Part A of 832TC-450ML, 832TC-2L, 832TC-8L kits

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

49 CFR: Sizes greater than 5 L

Part A of 832TC-40L kit

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 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.

**171.4 (c) Exceptions**: 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 of 5 kg or less for solids, are not subject to any other requirements of this subchapter provided the packagings meet the general requirements in §§ 173.24 and 173.24a. This exception does not apply to marine pollutants that are a hazardous waste or a hazardous substance. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class, all provisions of this subchapter relevant to any additional hazards continue to apply.

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

Section continued on the next page

Page 13 of 18



SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

### Air

# Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 5 L and under Part A of 832TC-450ML, 832TC-2L, 832TC-8L kits

#### **NOT REGULATED**

On air waybill write: "Not Restricted, as per Special Provisions A197" Sizes greater than 5 L Part A of 832TC-40L kit

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.

Section continued on the next page



SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

#### Sea

# Refer to IMDG regulations.

Sizes 5 L and under: Part A of 832TC-450ML, 832TC-2L, 832TC-8L kits

**NOT REGULATED** 

per 2.10.2.7

Sizes greater than 5 L: Part A of 832TC-40L kit

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





**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.

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

*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.

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

All hazardous ingredients are listed on the DSL.

Section continued on the next page

SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

#### **USA**

#### Other Classifications

#### **HMIS® RATING**

HEALTH:	*	2
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

#### NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

#### CAA (Clean Air Act, USA)

This product does not contain any class 1 ozone depleting substances.

This product does not contain any class 2 ozone depleting substances.

This product does not contain substances that are listed as hazardous air pollutants.

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

This product does not contain substances which are subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

**TSCA** (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, USA).

This product 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 electronic equipment and is therefore not governed by this regulation.

Page 16 of 18

SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

# **Section 16: Other Information**

**Prepared by the** Regulatory Affairs Department

Date of Review 02 March 2020 Supersedes 20 November 2019

**Reason for Changes:** Update to the emergency phone number information.

#### Reference

1) ACGIH 2017 TLVs and BEIs: Based on the documentation of the threshold limit values for chemical substances and physical agents & biological exposure indices, American Conference of Governmental of Industrial Hygienist Cincinnati, OH (2017).

2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

#### **Abbreviations**

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



SAI Global File #004008 Burlington, Ontario, Canada

832TC-A (PART A)

**Technical Queries** Contact us regarding any questions, improvement suggestions, or

problems with this product. Application notes, instructions, and FAQs

are located at www.mgchemicals.com.

Email: <a href="mailto:support@mgchemicals.com">support@mgchemicals.com</a>

Phone: 1-905-331-1396

Mailing Addresses Manufacturing & Support Head Office

1210 Corporate Drive 9347–193rd Street

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**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.