

SAI Global File #004008 Burlington, Ontario, Canada

#### SUPER WASH ELECTRONICS CLEANER

#### 406B-AEROSOL

# **Safety Data Sheet**

#### Section 1: Identification

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

Product Name: Contact Cleaner with Silicones

**SDS Code:** 406B-Aerosol **Related Part #** 406B-425G

### **Recommended Use and Restriction on Use**

Use: Zero residue electronic cleaner

Uses Advised Against: Do NOT use on live circuits or in presence of ignition source

### **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

WEB www.mgchemicals.com

MG Chemicals (Head Office) 9347-193 Street Surrey British Columbia, V4N 4

Surrey, British Columbia V4N 4E7 CANADA

+1-905-331-1396 FAX +1-905-331-2682

**E-MAIL** <u>info@mgchemicals.com</u>

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

### **Emergency Phone Number**

For hazardous material incidents ONLY—leaks, spills, fires, exposures or accidents

USA or CANADA: Call CHEMTREC **☎**: +1-800-424-9300

For emergencies involving dangerous goods; Collect 24/7

CANADA: Call CANUTEC **2**: +1-613-996-6666 or \*666 on cellular phones



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### **Section 2: Hazard(s) Identification**

#### **Classification of Hazardous Chemical**

### **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Flammable Aerosol		2	Danger	Flame
Gases Under Pressure		Liquefied gas	Warning	Gas cylinder
Aspiration Hazard		1	Danger	Health
Reproductive Toxicity		2	Warning	Health
Skin irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	2	none	Environment

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

#### **Label Elements**

Signal Word	DANGER
Pictograms	Hazard Statements
	H223: Flammable aerosol
	H280: Contains gas under pressure; may explode if heated
	H304: May be fatal if swallowed and enters airways
	H361: Suspected of damaging fertility or the unborn child

<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.



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Pictograms	Hazard Statements
^	H315: Causes skin irritation
	H336: May cause drowsiness or dizziness
***	H411: Toxic to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection.
P273	Avoid release to the environment.
Response	Precautionary Statements
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P391	Collect spillage.



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Storage	Precautionary Statements
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].
P403	Store in a well-venilated place.
P405	Store locked up.
Disposal	Precautionary Statements
P501	Dispose of contents/container in accordance to local/regional/international regulations.

### **Hazards Not Otherwise Classified**

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

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

CAS #	Chemical Name	%(weight)
107-83-5	methyl-2-pentane	28-35%
75-37-6	1,1-difluoroethane <sup>a)</sup>	30%
96-14-0	methyl-3-pentane	11-14%
79-29-8	dimethyl-2,3-butane	11-14%
75-83-2	dimethyl-2,2-butane	7-11%
109-66-0	pentane	4-7%
110-54-3	n-hexane	1-4%

a) Commonly referred to as HFC-152a



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Section 4: First-Aid Mea	asures
Exposure Condition	GHS Code/Symptoms/Precautionary Statements
IF SWALLOWED	P301 + P310, P331, P308 + P313
Immediate Symptoms	nausea, weakness, headache, abdominal pain, drowsiness, dizziness, unconsciousness
Response	Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
	IF exposed or concerned: Get medical advice/attention.
IF ON SKIN	P302 + P352, P332 + P313, P362 + P364, P308 + P313
Immediate Symptoms	dry skin, redness, irritation
Response	Wash with plenty of water.
	If skin irritation occurs: Get medical advice/attention.
	Take off contaminated clothing and wash it before reuse.
	IF exposed or concerned: Get medical advice/attention.
IF INHALED	P304 + P340, P312, P308 + P313
Immediate Symptoms	nausea, weakness, headache, drowsiness, dizziness, respiratory irritation, unconsciousness
<b>Delayed Symptoms</b>	deep and rapid breathing, nausea
Response	Remove person to fresh air and keep comfortable for breathing.
	Call a POISON CENTER/doctor if you feel unwell.
	IF exposed or concerned: Get medical advice/attention.
IF IN EYES	P305 + P351 + P338, P308 + P313
Immediate Symptoms	redness, pain
Response	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	IF exposed or concerned: Get medical advice/attention.



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

**Extinguishing Media** In case of fire: Use dry chemical, carbon dioxide, chemical foam.

Use water spray to cool containers.

**Specific Hazards** The vapors are heavier than air and may accumulate in low-lying

areas. Vapors may travel long distances and ignite at an ignition

source, which can cause a flashback or an explosion.

Prevent fire-fighting wash from entering waterway or sewer

system.

**Combustion Products** Produces carbon oxides (CO, CO<sub>2</sub>), halogenated compounds, and

hydrogen fluorides.

**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** 

Remove or keep away all sources of extreme heat or open

flames. Avoid breathing the mist/spray/vapors.

Environmental

Avoid releasing to the environment. Prevent spill from entering

**Precautions** drains and waterways.

**Containment Methods** Not applicable

**Cleaning Methods** Collect liquid in a sealable, solvent-resistant container. Sprinkle

inert absorbent compound onto spill, then sweep into the container. Wash spill area with 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.

Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not spray on an open flame or other

ignition source. Do not pierce or burn, even after use.

Avoid breathing mist/vapors/spray. Use only outdoors or in a

well-ventilated area.

**Handling** Wear protective gloves/protective clothing/eye protection.

Wash hands thoroughly after handling.

Avoid release to the environment.

**Storage** Protect from sunlight. Do not expose to temperatures exceeding

50 °C [122 °F].

Store in well ventilated place.

Store locked up.

### **Section 8: Exposure Controls/Personal Protection**

### **Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
methyl-2-pentane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) <sup>a)</sup>	(1 000 ppm) <sup>a)</sup>
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm
1,1-difluoroethane	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada	Not established	Not established
methyl-3-pentane	ACGIH	500 ppm	1 000 ppm
Hexane isomers	U.S.A. OSHA PEL	(500 ppm) <sup>a)</sup>	(1 000 ppm) <sup>a)</sup>
(except n-Hexane)	Canada AB	500 ppm	1 000 ppm
-	Canada BC	200 ppm	Not established
	Canada ON	500 ppm	1 000 ppm
	Canada QC	500 ppm	1 000 ppm

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Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
ACGIH	500 ppm	1 000 ppm
U.S.A. OSHA PEL	(500 ppm) <sup>a)</sup>	(1 000 ppm) <sup>a)</sup>
Canada AB	500 ppm	1 000 ppm
Canada BC	200 ppm	Not established
Canada ON	500 ppm	1 000 ppm
Canada QC		1 000 ppm
ACGIH		1 000 ppm
U.S.A. OSHA PEL	(500 ppm) <sup>a)</sup>	(1 000 ppm) <sup>a)</sup>
Canada AB	500 ppm	1 000 ppm
Canada BC	200 ppm	Not established
Canada ON	500 ppm	1 000 ppm
Canada QC	500 ppm	1 000 ppm
ACGIH	600 ppm	Not established
U.S.A. OSHA PEL		Not established
		Not established
		Not established
Canada ON		Not established
Canada QC		Not established
		Not established
Canada QC	50 ppm	Not established
	ACGIH U.S.A. OSHA PEL Canada AB Canada ON Canada QC ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC ACGIH U.S.A. OSHA PEL Canada AB Canada QC ACGIH U.S.A. OSHA PEL Canada AB Canada AB Canada AB Canada AB Canada BC Canada ON Canada QC ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Canada QC ACGIH U.S.A. OSHA PEL Canada AB Canada AB Canada AB	ACGIH U.S.A. OSHA PEL Canada AB Canada ON Canada QC ACGIH U.S.A. OSHA PEL Canada ON Canada QC  ACGIH U.S.A. OSHA PEL Canada AB Canada ON Canada QC  ACGIH U.S.A. OSHA PEL Canada ON Canada QC  ACGIH U.S.A. OSHA PEL Canada ON Canada QC  ACGIH U.S.A. OSHA PEL Canada AB Canada AB Canada AB Canada AB Canada AB Canada AB Canada ON Canada QC  ACGIH U.S.A. OSHA PEL Canada ON Canada QC  ACGIH U.S.A. OSHA PEL Canada AB Canada BC Canada ON Cana

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 by RTECS database<sup>2</sup> and data 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) Value vacated (retracted) under court order, but still in effect in some states.
- b) Skin significant exposure through skin route

## **Engineering Controls**

**Ventilation** 

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

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### **Personal Protective Equipment**

**Eye protection** Wear appropriate protective eyeglasses or chemical safety

goggles.

**Recommendation:** Ensure that glasses have side shields for

lateral protection.

**Skin Protection** For likely contacts, use of protective butyl rubber or other

chemically resistant gloves.

For incidental contacts, use nitrile or other chemically resistant

gloves.

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

respirator such as a half-mask respirator with organic vapor

cartridges.

Above 10 x OEL, use a positive-pressure, air-supplied respirator

or a self-contained breathing apparatus.

**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.



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Section 9: Physical and Chemical Properties				
Physical State	Liquid	Lower Flammability Limit	1%	
Appearance	Clear	Upper Flammability Limit	7%	
Odor	Mild hydrocarbon	Vapor Pressure @20°C	33 kPa [250 mmHg]	
Odor Threshold	Not available	Vapor Density	3 (Air =1)	
рH	Not available	Specific Gravity	0.66	
Freezing/Melting Point	Not available	Solubility in Water	Immiscible	
<b>Boiling Point</b>	52 °C [125 °F]	Partition Coefficient	Not available	
Flash Point a)	-29 °C [-20 °F]	Auto-ignition Temperature	Not available	
Evaporation Rate	0.8 (Ether = 1)	Decomposition Temperature	Not available	
Flammability (solid, gas)	Not applicable	Viscosity @40 °C	<20.5 mm <sup>2</sup> /s	

a) Closed cup flash point

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

**Reactivity** Not available

**Chemical Stability** Chemically stable at normal temperatures and pressures

**Conditions to** Temperatures above 50 °C [122 °F], open flames, other ignition

**Avoid** sources and incompatible substances

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

compounds, aluminum at temperatures ≥49 °C [>120 °F], peroxides.

**Polymerization** Will not occur

**Decomposition** Will not decompose under normal conditions. For thermal

decomposition, see combustion products in Section 5.



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#### **Section 11: Toxicological Information**

### **Routes of Exposure**

Ingestion, Inhalation, Skin Contact, and Eye Contact

### **Symptoms Summary**

**Skin** May cause dry skin, redness, and irritation.

**Eyes** May cause redness and pain.

**Inhalation** May cause nose, throat and lung irritation. Overexposure may lead to

visual impairment and central nervous system effects such as dizziness,

drowsiness, or weakness

**Ingestion** Swallowing the liquid may cause aspiration into the lungs with the risk of

chemical pneumonitis. See inhalation symptoms.

**Chronic** Prolonged or repeated exposure may cause skin dryness, cracking, as well

as defatting the skin.

Ingestion or inhalation of paint material, mist, or vapor during pregnancy

may increase the chances fetal death and developmental defects.

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

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
methyl-2-pentane	Not	Not	3 125 ppm
	available	available	4 h Rat <sup>a)</sup>
1,1-difluoroethane	Not	Not	1 500 g/m³
	available	available	4 h Rat
methyl-3-pentane	Not	Not	Not
	available	available	available
dimethyl-2,3-butane	Not	Not	Not
	available	available	available
dimethyl-2,2-butane	Not	Not	Not
	available	available	available
pentane	>2 000 mg/kg	Not	<20 000 ppm
	Rat	available	Rat 4 h (vapor)
n-hexane	15 480 mg/kg	>1.3 g/kg	627 000 ppm
	Rat	Rabbit <sup>a)</sup>	3 min Rat

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

a) Supplier SDS

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damage/irritation

#### **Quality System Certified to ISO 9001:2008**

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### **Other Toxicological Effects**

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye**Based on available data, the classification criteria are not

met.

**Sensitization** Based on available data, the classification criteria are not

(allergic reactions) me

**Carcinogenicity** Not classified or listed as a carcinogen by IARC, ACGIH,

(risk of cancer) CA Prop 65, or NTP.

**Mutagenicity** Based on available data, the classification criteria are not

(risk of heritable genetic effects) met.

**Reproductive Toxicity** The n-hexane component was found to harm fetus in

(risk to sex functions) animal studies.

**Teratogenicity** Harm to fetus found in animal studies.

(risk of fetus malformation)

**STOT-single exposure** Hexane isomers can affect the central nervous system by

inhalation causing drowsiness or dizziness.

**STOT-repeated exposure** Based on available data, the classification criteria are not

met.

**Aspiration hazard** Mixture is a class 1 aspiration hazard. It contain over

10% class 1 aspiration hazard components and has a

mixture viscosity of <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 (<a href="http://echa.europa.eu">http://echa.europa.eu</a>), and other reliable sources.

Similar mixtures of isoalkanes C6-C7 with <5% n-hexane have a LC50 of 11.4 mg/L for rainbow trout (Oncorhynchus mykiss) 96 h, and an EL50 of 3.0 mg/L water flea (Daphnia magna) 48 h.

### **Acute Ecotoxicity**

Category 2

Toxic to aquatic life

Avoid release to the environment.

### **Chronic Ecotoxicity**

Category 2

Toxic to aquatic life with long lasting effects

Avoid release to the environment. Collect spillage.

#### **Biodegradability**

Not available

#### Other Effects

Actual VOC (Volatile Organic Compounds) content according to the US (EPA) and Canadian (CEPA) authorities.

Actual VOC = 75% [495 g/L]

#### **Section 13: Disposal Information**

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

**Limited Quantity** 



**UN number**: UN1950 **Shipping Name**: AEROSOLS, flammable

**Class:** 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

#### Air

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

**Limited Quantity** 



**UN number**: UN1950 **Shipping Name**: AEROSOLS, flammable

**Class:** 2.1

Packing Group: Not applicable

Marine Pollutant: Yes



#### Sea

### Refer to IMDG regulations.

**Limited Quantity** 



**UN number**: UN1950 **Shipping Name**: AEROSOLS, flammable

**Class:** 2.1

Packing Group: Not applicable

Marine Pollutant: Yes

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



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Burningto

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#### **Section 15: Regulatory Information**

#### Canada

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

All hazardous ingredients are listed on the DSL.

#### **Industry and Science Canada**

MG Labels products intended for the workplace to conform to WHMIS labeling regulations. Product identification, net quantity declaration, minimum printing type size heights, and packaging of this product are in compliance.

#### **Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

#### USA

#### **Other Classifications**

### **HMIS® RATING**

HEALTH:	*	2
FLAMMABILITY:		3
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.



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

This product contains n-hexane (CAS# 110-54-3) which has a 5 000 lb reporting quantity requirements in section 313 Title III of the SARA of 1986 and 40 CFR part 372.

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

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, June 06, 2014 revision, USA).

This product does not contain any substances known to be listed in California.

#### **Europe**

**RoHS** (Restriction of Hazardous Substances Directive)

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

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

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

#### **Section 16: Other Information**

SDS Prepared by Michel Hachey
Date of Review 28 March 2016
Supersedes 09 May 2013

**Reason for Changes:** Reclassification due to new composition information in

compliance with HCS 2012 and WHMIS 2015.

#### Reference

- 1) ACGIH 2013 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 (2013).
- 2) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)

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#### **Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists (USA)

ECHA European Chemicals Agency

ΕU European Union

EC50 Half maximal effective concentration

EL50 Half maximal effective loading

International Agency for Research on Cancer IARC

No observable effect loading ratio NOELR National Toxicology Program NTP

Globally Harmonized System of Classification of Labeling of Chemicals GHS

LC50 Lethal Concentration 50%

Lowest published lethal concentration LCLo

Lethal Dose 50% LD50

Occupational Exposure Limit OEL PEL Permissible Exposure Limit

Safety Data Sheet SDS

Short-Term Exposure Limit STEL

TCLo Lowest published toxic concentration

Time Weighted Average TWA VOC Volatile Organic Content

**Technical Queries** Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs

Head Office

are located at www.mgchemicals.com.

Email: support@mqchemicals.com

Mailing Addresses Manufacturing & Support

1210 Corporate Drive 9347-193rd Street

Burlington, Ontario, Canada Surrey, British Columbia, Canada

L7L 5R6 V4N 4E7

#### Disclaimer

This material 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.