

SAI Global File #004008 Burlington, Ontario, Canada

422BP

# PURE SILICONE MODIFIED CONFORMAL COATING

# Safety Data Sheet

### Section 1: Identification

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

**Product Identifier: 422BP** 

Other Means of Identification: Pure Silicone Modified Conformal Coating

**Related Part #** 422BP-4L, 422BP-20L

#### Recommended Use and Restriction on Use

**Use:** Conformal coating

Uses Advised Against: Not available

## **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 **W**EB

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 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 Hazardous Chemical**

# **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Aspiration Hazard		1	Danger	Health
Carcinogenicity		2	Warning	Health
Reproductive Toxicity		2	Warning	Health
Specific Target Organ Toxicity	Repeated Exposure	2	Warning	Health
Flammable Liquid		3	Warning	Flame
Eye Irritation		2A	Warning	Exclamation
Skin Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Acute Toxicity	Dermal <sup>a)</sup>	4	Warning	Exclamation
Acute Toxicity	Inhalation <sup>a)</sup>	4	Warning	Exclamation
Hazardous to the Aquatic Environment	Chronic	3	None	None

Note: The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories rankings do not allow comparisons between classes.

a) CLP Annex VI mandated classifications

### **Label Elements**

Signal Word	DANGER	
Pictograms	Hazard Statements	
	H304: May be fatal if swallowed and enters airways	
	H351: Suspected of causing cancer	
	H361: May damage fertility or the unborn child	
	H373: May cause damage to liver, kidney, and inner ears through prolonged or repeated exposure	
	H226: Flammable liquid and vapor	

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Pictograms	Hazard Statements
^	H319: Causes serious eye irritation
	H315: Causes skin irritation
\•/	H335: May cause respiratory irritation
	H312 + H332: Harmful in contact with skin or if inhaled
No Symbol Mandated	H412: Harmful 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.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe mist, vapors, and spray.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting equipment.
P243	Take action to prevent static discharges.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection, and face protection.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
Response	Precautionary Statements
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, water fog, or chemical foam to extinguish.
P308 + P313	IF exposed or concerned: Get medical advice or attention.
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

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Response	Precautionary Statements
P303 + P361 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with plenty of water or shower.
P332 + P313	If skin irritation occurs: Get medical advice or attention.
P363	Wash contaminated clothing before reuse.
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.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor if you feel unwell.
Storage	Precautionary Statements
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
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
Defats skin	Repeated exposure may cause skin dryness or cracking.	None	None

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

CAS #	Chemical Name	%(weight)
1330-20-7	xylene (mixed isomers)	30-60%
100-41-4	ethylbenzene	5-10%
108-88-3	toluene	0.1-1%

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Chemicals

Section 4: First-Aid Mea	dSuleS
Exposure Condition	GHS Code: Precautionary Statement
IF SWALLOWED	P301 + P310, P331, P308 + P313
Immediate Symptoms	cause a burning sensation, abdominal pain, nausea, and headaches (see also inhalation symptoms).
Response	Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting.
	IF exposed or concerned: Get medical advice or attention.
IF ON SKIN (or hair)	P303 + P361 + P352, P332 + P313, P308 + P313, P363
Immediate Symptoms	redness, irritation, dry skin
Response	Take off immediately all contaminated clothing. Wash with plenty of water or shower.
	If skin irritation occurs: Get medical advice or attention.
	IF exposed or concerned: Get medical advice or attention.
	Wash contaminated clothing before reuse.
IF INHALED	P304 + P340, P312, P308 + P313
IF INHALED  Immediate Symptoms	P304 + P340, P312, P308 + P313  irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)
	irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and
Immediate Symptoms	irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)
Immediate Symptoms	irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)  Remove person to fresh air and keep comfortable for breathing.
Immediate Symptoms	irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)  Remove person to fresh air and keep comfortable for breathing.  Call a POISON CENTER or doctor if you feel unwell.
Immediate Symptoms Response	irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)  Remove person to fresh air and keep comfortable for breathing.  Call a POISON CENTER or doctor if you feel unwell.  IF exposed or concerned: Get medical advice or attention.
Immediate Symptoms Response IF IN EYES	irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)  Remove person to fresh air and keep comfortable for breathing.  Call a POISON CENTER or doctor if you feel unwell.  IF exposed or concerned: Get medical advice or attention.  P305 + P351 + P338, P337 + P313

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

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

or water spray to extinguish.

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.

**Combustion Products** Produces carbon oxides (CO, CO<sub>2</sub>).

**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. Do not breathe mist, vapors, and spray.

**Environmental Precautions** 

Avoid releasing to the environment. Prevent spill from entering

drains and waterways.

**Containment** Contain with inert absorbent (such as soil, sand, vermiculite).

**Cleaning** Collect the 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 the spill area with soap

and water to remove remaining residues.

**RECOMMENDATION:** Use a grounded stainless steel or carbon steel

container.

**Disposal** 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. No smoking.

Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Take precautionary measures against static discharge.

Do not breathe mist, vapors, and spray. Use only outdoors or in well-ventilated area. In cases of inadequate ventilation wear

respiratory protection.

Avoid release to the environment.

**Handling** Wear protective gloves, protective clothing, eye protection, and

face protection.

Wash hands thoroughly after handling.

**Storage** Keep container tightly closed.

Store in a well-ventilated area. Keep cool.

Store locked up.

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

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

Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
xylene (mixed isomers)	ACGIH U.S.A. OSHA PEL Canada AB Canada BC	100 ppm 100 ppm 100 ppm 100 ppm	150 ppm Not established 150 ppm 150 ppm
	Canada ON Canada QC	100 ppm 100 ppm	150 ppm 150 ppm

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#### Continued...

Chemical Name	Country/ Provinces	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
ethylbenzene	ACGIH	20 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	100 ppm	125 ppm
	Canada BC	20 ppm (2B)	Not established
	Canada ON	100 ppm	125 ppm
	Canada QC	100 ppm	125 ppm
toluene	ACGIH	20 ppm	Not established
	U.S.A. OSHA PEL	200 ppm	300 ppm
	Canada AB	50 ppm	Not established
	Canada BC	20 ppm	Not established
	Canada ON	20 ppm	Not established
	Canada QC	100 ppm	150 ppm

Note: Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH¹, OSHA (Table Z-1), and Canadian provinces exposure limits were consulted. Limits from the RTECS² 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.

(2B) Carcinogen

# **Engineering Controls**

**Ventilation** Keep airborne concentrations below the occupational exposure

limits (OEL).

### **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 incidental contacts, use disposable nitrile, neoprene, or

other chemically resistant gloves.

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### **Respiratory Protection**

For over-exposures up to 10 x OEL of mist, vapors, and spray, wear respirator such as a half-mask respirator with organic vapor cartridges and particulate filter.

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 <sup>©</sup>	1.2%
Appearance	Clear	Upper Flammability Limit <sup>c)</sup>	7.6%
Odor	Aromatic	Vapor Pressure @20 °C °)	1.06 kPa [7.95 mmHg]
Odor Threshold	≥0.324 ppm	Vapor Density <sup>b)</sup>	>3.16 (Air = 1)
pH	Not available	Relative Density @25°C	0.98
Freezing/Melting Point	Not available	Solubility in Water	Insoluble
Initial Boiling Point <sup>b)</sup>	137 °C [279 °F]	Partition Coefficient (n-octanol/water)	Not available
Flash Point <sup>a)</sup>	24.5 °C [76 °F]	Auto-ignition Temperature <sup>b)</sup>	500 °C [932 °F]
Evaporation Rate	0.86 (ButAc = 1)	Decomposition Temperature	Not available
Flammability	Flammable	Viscosity @40 °C	<20.5 mm <sup>2</sup> /s

- a) Based on supplier SDS
- b) Based on xylene component
- c) Based on Raoult's Law and LeChatelier' principal

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

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

**Conditions to Avoid** Ignition sources, excessive heat, and incompatible

substances. Vapors may form explosive mixture with air.

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

**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**

### **Summary of Effects and Symptoms by Routes of Exposure**

**Ingestion** May cause a burning sensation, abdominal pain, nausea,

vomiting (See also inhalation symptoms).

**Skin** Causes skin redness, skin irritation, and dry skin.

**Inhalation** May cause irritation of the respiratory track, cough, dizziness,

drowsiness, and headaches (in extreme overexposure cases:

unconsciousness and death).

**Eyes** Causes redness, severe irritation, and pain.

**Chronic** Prolonged or repeated exposure may cause skin dryness and

cracking, defat skin, and local redness and discomfort.

Prolonged and repeated exposure is possibly carcinogenic

based on inhalation studies on rats.

Prolonged or repeated overexposure may damage the liver

and kidneys.

Long term exposure to loud noises and product vapors may

lead to some hearing loss.

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

<b>Chemical Name</b>	LD50	LD50	LC50
	oral	dermal	inhalation
xylene	4 350 mg/kg	>5 000 mg/kg	5 000 ppm
	Rat	Rabbit	4 h Rat
ethylbenzene	3 500 mg/kg	>5 000 mg/kg	35 500 mg/m <sup>3</sup>
	Rat	Rabbit	2 h Mouse
toluene	5 580 mg/kg	12 124 mg/kg	49 g/m³
	Rat	Rabbit	4 h Rat

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



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# **Other Toxicological Effects**

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

Serious eye damage/irritation

Causes severe eye irritation.

**Sensitization** Based on available data, the classification criteria are

(allergic reactions) not met.

Carcinogenicity Ethylbenzene [100-41-4]

(risk of cancer) IARC Group 2B: Possibly carcinogenic to humans

ACGIH A3: Confirmed animal carcinogen with unknown

relevance to humans

CA Prop 65: Listed as a carcinogen

NTP: Not listed

**Mutagenicity** Based on available data, the classification criteria are

(risk of heritable genetic effects) not met.

**Reproductive Toxicity** (risk to At high doses, spermatogenisis was observed in male

sex functions) rat by inhalation of toluene.

**Teratogenicity** Fetotoxicity is observed in animal studies for inhalation

(risk of fetus malformation) and oral exposures for toluene.

**STOT-single exposure** Xylene isomers and toluene can affect the central

nervous system by inhalation causing drowsiness or dizziness. They are a respiratory system irritant.

**STOT-repeated exposure** Contains toluene, which is a Cat 2 STOT repeated

exposure hazard for the central nervous system and

cochlear systems.

Prolonged or repeated over-exposure to toluene, pxylene and ethylbenzene and noise can lead to hearing loss (cochlear impairment) according to rat inhalation

studies.

Prolonged or repeated over-exposure to xylenes can damage the liver, kidneys, and central nervous system.

At high levels of exposures, ethylbenzene causes

damage of the liver.

**Aspiration hazard** The liquid content is classified as Cat 1 aspiration

hazards.

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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.

Xylene isomers mixture is acutely toxic to the aquatic environment of category 2 with a minimal LC50 96 h of 2.5 mg/L for Oncorhynchus mykiss (rainbow trout).

Ethylbenzene is an acute category 2 environmental toxicant with minimal LC50 96 h of 4.2 mg/L for Oncorhynchus mykiss (rainbow trout); EC50 48 h of 2.9 mg/L and 7d NOEL of 0.91 mg/L Daphnia magna (water flea).

Toluene is an acute category 2 environmental toxicant with minimal LC50 96 h of 7.63 mg/L for Oncorhynchus mykiss (rainbow trout); EC50 24 h of 8.9 mg/L Daphnia magna (water flea); EC50 24 h of 10 mg/L Pseudokirchneriella subcapitata (green algae).

# **Acute Ecotoxicity**

See chronic ecotoxicity

### **Chronic Ecotoxicity**

Category 3

Harmful to aquatic life with long lasting effects.

Avoid release to the environment.

#### **Biodegradability**

Readily biodegradable. Product is volatile and only slightly soluble in water. In water and soil, it is biodegradable under both aerobic and anaerobic condition. Photoxidation in the atmosphere are typically in the range of 0.5 to 1.5 days.

#### Other Effects

VOC (EPA, WHIMS, and Europe) = 100% (980 g/L)

\*VOC = Regulated Volatile Organic Content

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

Sizes 5 L and under 422BP-4L

**Limited Quantity** 



Sizes greater than 5 L 422BP-20L

UN number: UN1263 Shipping Name: PAINT

Class: 3

Packing Group: III Marine Pollutant: No



#### Air

# Refer to ICAO-IATA Dangerous Goods Regulations.

Sizes 5 L and under 422BP-4L

Limited Quantity Total net quantity per package 10 L



Sizes up to 60 L (Passenger), 220 L (Cargo)

422BP-20L

UN number: UN1263 Shipping Name: PAINT

Class: 3

Packing Group: III Marine Pollutant: No



#### Sea

### Refer to IMDG regulations.

Sizes 5 L and under 422BP-4L

**Limited Quantity** 

Packing instructions P001



Sizes greater than 5 L

422BP-20L

UN number: UN1263 Shipping Name: PAINT

Class: 3

Packing Group: III Marine Pollutant: No



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

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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/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.

#### **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 contains xylenes, ethylbenzene, and toluene that are listed as hazardous air pollutants.

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

This product contains ethylbenzene (CAS# 100-41-4; reportable quantity =  $1\ 000\ lb$ ) and xylene (CAS# 1330-20-7, reportable quantity =  $100\ lb$ ), 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.

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

This product contains ethylbenzene, which is listed as a carcinogen.

This product contains toluene, which is listed as reproductively toxic.

# **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.

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

**SDS Prepared by** Regulatory Department

Date 27 February 2020

**Supersedes** 29 April 2019

**Reason for Changes:** Update to emergency contact information.

#### References

- 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®)

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#### **Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists (USA)
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.

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

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L7L 5R6 V4N 4E7

**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.