

## SILICONE CONFORMAL COATING

## 422B-LIQUID

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Silicone Conformal Coating

**SDS Code:** 422B-Liquid

**Related Part #** 422B-55ML, 422B-1L, 422B-4L, 422BPX-4L, 422B-20L

### Recommended Use and Restriction on Use

**Use:** Conformal coating for printed circuit boards and electronic components

**Uses Advised Against:** Not applicable

### Details of Manufacturer or Importer

#### Manufacturer

MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADA

MG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA

**☎** +1-800-340-0772

**FAX** +1-800-340-0773

**E-MAIL** [support@mgchemicals.com](mailto:support@mgchemicals.com)

**WEB** [www.mgchemicals.com](http://www.mgchemicals.com)

**☎** +1-905-331-1396

**FAX** +1-905-331-2682

**E-MAIL** [info@mgchemicals.com](mailto:info@mgchemicals.com)

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

### Emergency Phone Number

**For hazardous material incidents ONLY**—leaks, spills, fires, exposures or accidents  
USA or CANADA: Call CHEMTREC ☎: **+1-800-424-9300**

**For emergencies involving dangerous goods:** Collect 24/7  
CANADA: Call CANUTEC ☎: **+1-613-996-6666** or **\*666** on cellular phones

**SILICONE CONFORMAL COATING**

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**Section 2: Hazards Identification**




**Classification of Hazardous Chemical**

**GHS Categories**

Criteria	Category	Signal Word	Pictograms
Flammable Liquid	2	Danger	Flame
Aspiration Hazard	1	Danger	Health
Carcinogenicity	2	Warning	Health
Eye irritation	2	Warning	Exclamation
Skin irritation	2	Warning	Exclamation
Specific Target Organ Toxicity Single Exposure	3	Warning	Exclamation
Environmental Hazard Acute Aqua. Tox.	3	<i>none</i>	<i>none</i>

**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	<b>DANGER</b>
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapor
	H304: May be fatal if swallowed and enters airways H351: Suspected of causing cancer
	H315: Causes skin irritation H319: Causes serious eye irritation H336: May cause drowsiness and dizziness
No Symbol Mandated	H402: Harmful to aquatic life

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<b>Prevention</b>	<b>Precautionary Statements</b>
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/sparks/open flames/hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241 + P243	Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.
P260 + P271	Do not breathe mist/vapors/spray. Use only outdoors or in well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
P370 + P378	In case of fire: Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish.
P308 + P313	IF EXPOSED OR CONCERNED: Get medical advice/attention.
P301 + 310 + P331	IF SWALLOWED: Immediately call a Poison Center/doctor. Do NOT induce vomiting.
P303 + P361 + P364 + P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
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 attention.
<b>Storage</b>	<b>Precautionary Statements</b>
P403 + P235	Store in well ventilated place. Keep cool.
P405	Store locked up.

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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)
67-64-1	acetone	40-45%
1330-20-7	xylene (mixed isomers)	19-22%
108-65-6	1-methoxy-2-propanol acetate	4-6%
100-41-4	ethylbenzene	4-5%

**Section 4: First Aid Measures**

Exposure Condition	GHS Code: Precautionary Statement
<b>IF ON SKIN (or hair)</b>	P303 + P361 + P364, P352, P332 + P313, P308 + P313
<b>Immediate Symptoms</b>	<i>redness, irritation, dry skin</i>
<b>Response</b>	Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention.
<b>IF SWALLOWED</b>	P301 + P310 + P331, P308 + P313
<b>Immediate Symptoms</b>	<i>abdominal pain, burning sensation, nausea, headaches, dizziness, drowsiness, vomiting</i>
<b>Response</b>	Immediately call a Poison Center/doctor. Do NOT induce vomiting. If exposed or concerned: Get medical advice/attention.

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<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>redness, severe irritation, pain, blurred vision</i>
<b>Response</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
<b>IF INHALED</b>	P304 + P340, P312, P308 + P313
<b>Immediate Symptoms</b>	<i>irritation of the respiratory track, cough, dizziness, drowsiness, headaches (in extreme exposure cases: nausea, unconsciousness)</i>
<b>Response</b>	Remove person to fresh air (out of the contaminated zone) and keep comfortable for breathing. If feeling unwell: Call a doctor. If exposed or concerned: Get medical advice/attention.

**Section 5: Fire Fighting Measures**

<b>Extinguishing Media</b>	Use dry chemical, carbon dioxide, chemical foam, or water spray to extinguish. Use water spray to cool containers.
<b>Specific Hazards</b>	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.
<b>Combustion Products</b>	Produces carbon oxides (CO, CO <sub>2</sub> ).
<b>Fire-Fighter</b>	Wear self-contained breathing apparatus and full fire-fighting turn-out gear.

**SILICONE CONFORMAL COATING****422B-LIQUID****Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	Do not breathe mist/vapors. Remove or keep away all sources of extreme heat or open flames.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment Methods</b>	Contain with inert and non-flammable absorbent (such as soil, sand, vermiculite).
<b>Cleaning Methods</b>	Collect liquid in a sealable, solvent-resistant container. Sprinkle inert absorbent compound onto spill, then sweep into the container. Wash spill area with soap and water to remove the last traces of residue.
<b>Disposal Methods</b>	Dispose of spill waste according to Section 13.

**Section 7: Handling and Storage**

<b>Prevention</b>	Keep out of reach of children.  Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.  Keep away from heat/sparks/open flames/hot surfaces. No smoking  Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.  Keep container tightly closed.  Do not breathe mist/vapors/spray/fumes. Use only outdoors or in well-ventilated area.  Avoid release to the environment.
<b>Handling</b>	Wash hands thoroughly after handling.  Wear protective gloves/eye protection/face protection.  Take off immediately all contaminated clothing and wash it before reuse.
<b>Storage</b>	Store in well ventilated place. Keep cool.  Store locked up.

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**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)
acetone	ACGIH	500 ppm	750 ppm
	U.S.A. OSHA PEL	1 000 ppm	Not established
	Canada AB	500 ppm	750 ppm
	Canada BC	250 ppm	500 ppm
	Canada ON Canada QC	500 ppm 750 ppm	750 ppm 1 000 ppm
xylene (mixed isomers)	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	150 ppm
	Canada AB	500 ppm	150 ppm
	Canada BC	100 ppm	150 ppm
	Canada ON Canada QC	100 ppm 100 ppm	150 ppm 150 ppm
1-methoxy-2- propanol acetate	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	U.S.A. California <sup>a)</sup>	100 ppm	150 ppm
	Canada AB	Not established	Not established
	Canada BC	50 ppm	75 ppm
	Canada ON Canada QC	50 ppm Not established	Not established Not established
ethylbenzene	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	100 ppm	125 ppm
	Canada AB	150 ppm	200 ppm
	Canada BC	20 ppm	Not established
	Canada ON Canada QC	100 ppm 100 ppm	125 ppm 125 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 by RTECS<sup>2</sup> database 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) California Code of Regulations, Title 8, Section 5155. Airborne Contaminants. Can be absorbed through skin.

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**SILICONE CONFORMAL COATING****422B-LIQUID****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 likely contacts, use of protective butyl rubber, fluorinated rubber, or other chemically resistant gloves.

For incidental contacts, neoprene 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**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b> <sup>b)</sup>	1%
<b>Appearance</b>	Clear	<b>Upper Flammability Limit</b> <sup>b)</sup>	13%
<b>Odor</b>	Ethereal	<b>Vapor Pressure @21 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	Not available
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	0.85
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Partially soluble
<b>Boiling Point</b> <sup>a)</sup>	≥56 °C [≥133 °F]	<b>Partition Coefficient</b>	Not available
<b>Flash Point</b> <sup>a)</sup>	-17 °C [1.4 °F]	<b>Auto-ignition Temperature</b> <sup>c)</sup>	≥432 °C [≥810 °F]
<b>Evaporation Rate</b>	Fast	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not available	<b>Viscosity @40 °C</b>	<20.5 mm <sup>2</sup> /s

a) Values for flash point and other threshold based on acetone

b) Calculated using Raoult's Law and Le Chatelier Principle

c) Values for based on the component with the lowest auto-ignition value

**SILICONE CONFORMAL COATING****422B-LIQUID****Section 10: Stability and Reactivity**

<b>Reactivity</b>	Not available
<b>Chemical Stability</b>	Chemically stable at normal temperatures and pressures
<b>Conditions to Avoid</b>	Ignition sources, excessive heat, and incompatible substances. Vapors may form explosive mixture with air.
<b>Incompatibilities</b>	Oxidizing agents, strong acids, strong bases
<b>Polymerization</b>	Will not occur
<b>Decomposition</b>	Will not decompose under normal conditions. For thermal decomposition, see combustion products in Section 5.

**Section 11: Toxicological Information****Likely Routes of Exposure**

Eye Contact, Ingestion, Inhalation, and Skin Contact

**Symptoms Summary**

<b>Eyes</b>	May cause redness, serious eye irritation, or pain.
<b>Skin</b>	May cause redness, skin irritation, or dry skin.
<b>Inhalation</b>	May cause cough, irritation of the respiratory track, dizziness, drowsiness, headaches, <i>(in extreme exposure cases: unconsciousness and death)</i> .
<b>Ingestion</b>	May cause burning sensation, abdominal pain, nausea, vomiting (see also inhalation symptoms).
<b>Chronic</b>	Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, and local redness and discomfort.  The ethylbenzene component is a possible carcinogen.

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**Acute Toxicity (Lethal Exposure Concentrations)**

<b>Chemical Name</b>	<b>LD50 oral</b>	<b>LD50 dermal</b>	<b>LC50 inhalation</b>
acetone	5 800 mg/kg Rat	>9 400 µL/kg Guinea pig	44 g/m <sup>3</sup> 4 h Rat
xylene	4 350 mg/kg Rat	>1 700 mg/kg Rabbit	5 000 ppm 4 h Rat
1-methoxy-2-propanol acetate	8 532 mg/kg Rat	>5 g/kg Rabbit	Not established
ethylbenzene	3 500 mg/kg Rat	>5 000 mg/kg Rabbit	35 500 mg/m <sup>3</sup> 2h Mouse

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

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	Causes skin irritation based on Draize tests on animals. Prolonged or repeated skin contact may cause dermatitis
<b>Serious eye damage/irritation</b>	Causes severe eye irritation based on Draize tests on animals.
<b>Sensitization</b> (allergic reactions)	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b> (risk of cancer)	<p><b>Ethylbenzene [CAS# 64-17-5]</b></p> <p>IARC Group 2B: Possibly carcinogenic to humans</p> <p>ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans</p> <p>CA Prop 65: Listed as a carcinogen</p> <p>NTP: Not listed</p>
<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.

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<b>STOT-single exposure</b>	Xylene and acetone can affect the central nervous system by inhalation causing drowsiness or dizziness.
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Mixture containing more than 10% Class 1 aspiration toxicant and having a viscosity <20.5 mm <sup>2</sup> /s

**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.

Acetone and 1-methoxy-2-propanol acetate have low fish ecotoxicity between 100 and 1000 mg/L for fish.

Xylene isomers mixture are expected to be acute category 2 environmental toxicant with minimal LC50 of 2.5 mg/L for fish.

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

**Acute Ecotoxicity**

Category 3

Harmful to aquatic life.

Avoid release to the environment.

**Chronic Ecotoxicity**

Based on available data, the classification criteria are not met.

**Biodegradability**

Not data available

**Other Effects**

Regulated Volatile Organic Content (VOC) = 32% (289 g/L)

**Section 13: Disposal Information**

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

**SILICONE CONFORMAL COATING**

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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 liter and under

**Limited Quantity**



Sizes greater than 5 liter

**UN number:** UN1263  
**Shipping Name:** PAINT  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No  
Flash Point = -17 °C [1.4 °F]



**Air**

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

Sizes up to 5 L (Passenger), 60 L (Cargo)

**UN number:** UN1263  
**Shipping Name:** PAINT  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No  
Flash Point = -17 °C [1.4 °F]

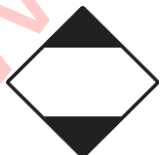


**Sea**

**Refer to IMDG regulations.**

Sizes 5 liter and under

**Limited Quantity**



Packing Instr. P001

Sizes greater than 5 liter

**UN number:** UN1263  
**Shipping Name:** PAINT  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No  
Flash Point = -17 °C [1.4 °F]



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

**SILICONE CONFORMAL COATING**

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**Section 15: Regulatory Information**

**Canada**

**WHMIS 1988 Classification**



B2 – Flammable Liquid;  
D2A – Very Toxic Material (Carcinogen IARC: 2B);  
D2B – Toxic Material (Eye and Skin Irritation)

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

All hazardous ingredients are listed on the DSL/NDSL.

**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.

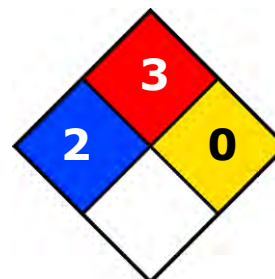
**USA**

**Other Classifications**

**HMIS® RATING**

<b>HEALTH:</b>	<b>* 2</b>
<b>FLAMMABILITY:</b>	<b>3</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	

**NFPA® 704 CODES**



*Approximate HMIS and NFPA Risk Ratings Legend:*

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

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**SILICONE CONFORMAL COATING****422B-LIQUID****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 ethylbenzene and xylene 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 = 1000 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.

This product contains acetone (CAS# 78-93-3, reportable quantity = 5000 lb), which can be subject to the CERCLA reporting requirements.

**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 contains ethylbenzene (CAS # 100-41-4), which is listed as a carcinogen.

**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**

<b>SDS Prepared by</b>	Michel Hachey
<b>Date of Revision</b>	25 November 2015
<b>Supersedes</b>	30 July 2014
<b>Reason for Changes:</b>	Format adjustments in compliance with HCS 2012 and WHMIS 2015.

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**SILICONE CONFORMAL COATING****422B-LIQUID****Reference**

- 1) All toxicological data were checked against the RTECS (Registry of Toxic Effects of Chemical Substances®)
- 2) ACGIH *2011 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 (2011).

**Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
ECHA	European Chemicals Agency
EU	European Union
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

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

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

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

*Head Office*  
9347-193rd Street  
Surrey, British Columbia, Canada  
V4N 4E7

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