

4223D

PREMIUM POLYURETHANE CONFORMAL COATING

# Safety Data Sheet

## Section 1: Identification

### Product Identifier and Other Means of Identification

**Product Identifier:** 4223D**Other Means of Identification:** Premium Polyurethane Conformal Coating**Related Part #** 4223D-1L, 4223D-4L, 4223D-20L

### Recommended Use and Restriction on Use

**Use:** Protective dielectric coating for printed circuit boards**Uses Advised Against:** Not available

### Details of Manufacturer or Importer

**Manufacturer**MG Chemicals  
1210 Corporate Drive  
Burlington, Ontario L7L 5R6  
CANADAMG Chemicals (Head Office)  
9347-193 Street  
Surrey, British Columbia V4N 4E7  
CANADA**TEL** +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)**TEL** +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 Verisk 3E at **+1-866-519-4752** or **+1-760-476-3962**  
(Service access code: 335388)**For emergencies involving the transport of dangerous goods;** 24/7 service  
CANADA—Call CANUTEC collect at **+1-613-996-6666** or **\*666** on cellular phones



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**PREMIUM POLYURETHANE CONFORMAL COATING**
**Section 2: Hazard(s) Identification**
**Classification of Hazardous Chemical**
**GHS Categories**

Criteria		Category	Signal Word	Pictograms
Flammable Liquid		2	Danger	Flame
Aspiration Hazard		1	Danger	Health
Specific Target Organ Toxicity	Repeated Exposure	2	Warning	Health
Carcinogenicity		2	Warning	Health
Eye Irritation		2	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	<b>DANGER</b>
Pictograms	Hazard Statements
	H225: Highly flammable liquid and vapor
	H351: Suspected of causing cancer H373: May cause damage to liver, kidney, and inner ears through prolonged or repeated exposure

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<b>Pictograms</b>	<b>Hazard Statements</b>
	H319: Causes serious eye irritation H315: Causes skin irritation H335: May cause respiratory irritation H312 + H332: Harmful in contact with skin or if inhaled
<i>No Symbol Mandated</i>	H412: Harmful to aquatic life with long lasting effects
<b>Prevention</b>	<b>Precautionary Statements</b>
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, spray, fumes.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting equipment.
P243	Take action to prevent static discharges.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, eye protection, face protection.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
<b>Response</b>	<b>Precautionary Statements</b>
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/attention.
P331	Do NOT induce vomiting.
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/attention.
P363	Wash contaminated clothing before reuse.

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<b>Response</b>	<b>Precautionary Statements</b>
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/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 advice/attention.
<b>Storage</b>	<b>Precautionary Statements</b>
P403 + P235	Store in well-ventilated place. Keep cool.
P405	Store locked up.
<b>Disposal</b>	<b>Precautionary Statements</b>
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**

<b>CAS #</b>	<b>Chemical Name</b>	<b>%(weight)</b>
1330-20-7	xylene (mixed isomers)	30-60%
78-93-3	2-butanone <sup>a)</sup>	10%
100-41-4	ethylbenzene	5-10%

a) Also known as methyl ethyl ketone

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**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code: Precautionary Statement</i>
<b>IF SWALLOWED</b>	P301 + P310, P331
<b>Immediate Symptoms</b>	<i>burning sensation, abdominal pain, nausea, and headaches (see also inhalation symptoms).</i>
<b>Response</b>	Immediately call a POISON CENTRE/doctor. Do NOT induce vomiting.
<b>IF ON SKIN (or hair)</b>	P303 + P361 + P532, P332 + P313, P308 + P313, P363
<b>Immediate Symptoms</b>	<i>redness, irritation, dry skin</i>
<b>Response</b>	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.
<b>IF INHALED</b>	P304 + P340, P312
<b>Immediate Symptoms</b>	<i>irritation of the respiratory track, cough, dizziness, drowsiness, headaches, (in extreme exposure cases: unconsciousness and death)</i>
<b>Response</b>	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>redness, severe irritation, pain</i>
<b>Response</b>	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

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**PREMIUM POLYURETHANE CONFORMAL COATING****Section 5: Fire-Fighting Measures**

<b>Extinguishing Media</b>	In case of fire: 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.

**Section 6: Accidental Release Measures**

<b>Personal Protection</b>	See personal protection recommendations in Section 8.
<b>Precautions for Response</b>	Remove or keep away all sources of extreme heat or open flames. Do not breathe mist, vapors, spray.
<b>Environmental Precautions</b>	Avoid releasing to the environment. Prevent spill from entering drains and waterways.
<b>Containment</b>	Contain with inert absorbent (such as soil, sand, vermiculite).
<b>Cleaning</b>	Collect the liquid in a sealable, solvent-resistant container with an electrically protected vacuum cleaner, chemical absorbent, or chemical spill pad.  <b>RECOMMENDATION:</b> Use a grounded stainless steel or carbon steel container.
<b>Disposal</b>	Dispose of spill waste according to Section 13.

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**Section 7: Handling and Storage**
**Prevention**

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, lighting equipment. Take precautionary measures against static discharge.

Do not breathe mist, vapors, spray, fumes. 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, eye protection, 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**

<b>Chemical Name</b>	<b>Country/ Provinces</b>	<b>Long Term Exposure Limits (PEL)</b>	<b>Short Term Exposure Limits (STEL)</b>
xylene (mixed isomers)	ACGIH	100 ppm	150 ppm
	U.S.A. OSHA PEL	100 ppm	Not established
	Canada AB	100 ppm	150 ppm
	Canada BC	100 ppm	150 ppm
	Canada ON	100 ppm	150 ppm
	Canada QC	100 ppm	150 ppm
2-butanone (methyl ethyl ketone)	ACGIH	200 ppm	300 ppm
	U.S.A. OSHA PEL	200 ppm	Not established
	Canada AB	200 ppm	300 ppm
	Canada BC	50 ppm	100 ppm
	Canada ON	200 ppm	300 ppm
	Canada QC	50 ppm	100 ppm

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

**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 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**

<b>Physical State</b>	Liquid	<b>Lower Flammability Limit</b>	1.6%
<b>Appearance</b>	Clear	<b>Upper Flammability Limit</b>	10.3%
<b>Odor</b>	Aromatic	<b>Vapor Pressure @20 °C</b>	Not available
<b>Odor Threshold</b>	Not available	<b>Vapor Density</b>	>3.1 (Air = 1)
<b>pH</b>	Not available	<b>Relative Density @25 °C</b>	0.96
<b>Freezing/Melting Point</b>	Not available	<b>Solubility in Water</b>	Insoluble
<b>Initial Boiling Point</b>	80 °C [176 °F]	<b>Partition Coefficient n-octanol/water</b>	Not available
<b>Flash Point</b> <sup>a)</sup>	-9 °C [16 °F]	<b>Auto-ignition Temperature</b>	430 °C [806 °F]
<b>Evaporation Rate</b> <sup>b)</sup>	0.86	<b>Decomposition Temperature</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable	<b>Viscosity @40 °C</b>	>20.5 mm <sup>2</sup> /s

a) Tag closed cup based on 2-butanone component

b) Evaporation rate is based off of xylene component

**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>	strong 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.

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**Section 11: Toxicological Information**
**Summary of Effects and Symptoms by Routes of Exposure**

<b>Ingestion</b>	May cause a burning sensation, abdominal pain, nausea, vomiting (See also inhalation symptoms).
<b>Skin</b>	Causes skin redness, skin irritation, and dry skin.
<b>Inhalation</b>	May cause irritation of the respiratory track, cough, dizziness, drowsiness, and headaches ( <i>in extreme overexposure cases: unconsciousness and death</i> ).
<b>Eyes</b>	Causes redness, severe irritation, and pain.
<b>Chronic</b>	<p>Prolonged or repeated exposure may cause skin dryness and cracking, defat skin, and local redness and discomfort.</p> <p>Prolonged and repeated exposure is possibly carcinogenic based on inhalation studies on rats.</p> <p>Prolonged or repeated overexposure may damage the liver and kidneys.</p> <p>Long term exposure to loud noises and product vapors may lead to some hearing loss.</p>

**Acute Toxicity (Lethal Exposure Concentrations)**

Chemical Name	LD50 oral	LD50 dermal	LC50 inhalation
xylene	4 350 mg/kg Rat	>5 000 mg/kg Rabbit	5 000 ppm 4 h Rat
2-butanone	2 737 mg/kg Rat	6 480 mg/kg Rabbit	23 500 mg/m <sup>3</sup> 8 h Rat
ethylbenzene	3 500 mg/kg Rat	>5 000 mg/kg Rabbit	35 500 mg/m <sup>3</sup> 2 h Mouse

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

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**4223D****PREMIUM POLYURETHANE CONFORMAL COATING****Other Toxicological Effects****Skin corrosion/irritation**

Xylene causes skin irritation.

**Serious eye damage/irritation**

Xylene and 2-butanone cause severe eye irritation.

**Sensitization**  
(allergic reactions)

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

**Carcinogenicity**  
(risk of cancer)**Ethylbenzene [100-41-4]**

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**  
(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**

Xylene isomers and 2-butanone can affect the central nervous system by inhalation causing drowsiness or dizziness. They are a respiratory system irritant.

**STOT-repeated exposure**

Prolonged or repeated over-exposure to p-xylene and ethylbenzene, in the presence of loud 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**

Although it contains more than 10% components of category 1 for aspiration hazard, the mixture has a kinematic viscosity of  $>20.5 \text{ mm}^2/\text{s}$  at  $40 \text{ }^\circ\text{C}$  for the separation layer.

**4223D****PREMIUM POLYURETHANE CONFORMAL COATING****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.

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).

The butan-2-one has minimal LC50 96 h of 3 130 mg/L for *Pimephales promelas* (fathead minnow); EC50 48 h 520 mg/L *Daphnia magna* (water flea).

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).

**Acute Ecotoxicity**

See chronic ecotoxicity

**Chronic Ecotoxicity**

Category 3

Harmful to aquatic life with long lasting effects.

Avoid release to the environment.

**Biodegradability**

Not available

**Other Effects**

VOC (EPA, WHIMS, and Europe) = 57% (551 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  
 4223D-1L, 4223D-4L  
**Limited Quantity**



Sizes greater than 5 L  
 4223D-20L

**UN number:** UN1263  
**Shipping Name:** PAINT  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No



**Air**

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

Sizes up to 60 L (passenger), 120 L (cargo)  
 4223D-1L, 4223D-4L, 4223D-20L

**UN number:** UN1263  
**Shipping Name:** PAINT  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No



**Sea**

**Refer to IMDG regulations.**

Sizes 5 L and under  
 4223D-1L, 4223D-4L  
 Limited Quantity



Packing instructions  
 P001

Sizes greater than 5 L  
 4223D-20L

**UN number:** UN1263  
**Shipping Name:** PAINT  
**Class:** 3  
**Packing Group:** II  
**Marine Pollutant:** No



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

**4223D**
**PREMIUM POLYURETHANE CONFORMAL COATING**
**Section 15: Regulatory Information**
**Canada**
**Domestic Substance List (DSL) / Non-Domestic Substance Lists (NDSL)**

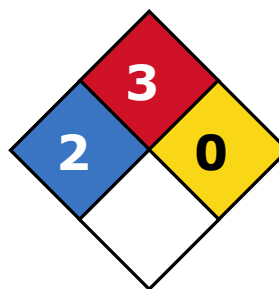
All hazardous ingredients are listed on the DSL/NDSL.

**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**

<b>HEALTH:</b>	<b>*</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)

**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 = 1 000 lb), xylene (CAS# 1330-20-7, reportable quantity = 100 lb), butan-2-one (CAS# 78-93-3, reportable quantity = 5 000 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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**4223D****PREMIUM POLYURETHANE CONFORMAL COATING****California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity)

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, PBDE's, DEHP, BBP, DBP, or DIBP and complies with European RoHS regulations.

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

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

**Section 16: Other Information**

<b>SDS Prepared by</b>	MG Chemical's Regulatory Department
<b>Date</b>	05 March 2020
<b>Supersedes</b>	09 January 2017
<b>Reason for Changes:</b>	Change to classification and format changes.

**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®)

**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

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**4223D****PREMIUM POLYURETHANE CONFORMAL COATING**

**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*  
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Burlington, Ontario, Canada  
L7L 5R6

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

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