

## ACRYLIC CONFORMAL COATING

## 419C-AEROSOL

# Safety Data Sheet

## Section 1: Product and Company Identification

### Product Identifier and Other Means of Identification

**Product Name:** Acrylic Conformal Coating**SDS Code:** 419C-Aerosol**Related Part #:** 419C-340G

### 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  
CANADA

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

**☎** +1-800-340-0772**☎** +1-905-331-1396**FAX** +1-800-340-0773**FAX** +1-905-331-2682**E-MAIL:** [support@mgchemicals.com](mailto:support@mgchemicals.com)**E-MAIL:** [info@mgchemicals.com](mailto:info@mgchemicals.com)**WEB** [www.mgchemicals.com](http://www.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

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**Section 2: Hazards Identification**

**Classification of Hazardous Chemical**

**WHMIS Classification**



A – Aerosol Container; B5 – Flammable Aerosol;  
D1B-Toxic (Aspiration Hazard), D2B – Toxic Material (Skin and Eye Irritant)

**GHS Categories**

Hazard Class	Category	Signal Word	Pictograms	
Aspiration Hazard	1	Danger	Health	
Flammable Aerosol	2	Warning	Flame	
Gas under pressure	Liquefied gas	3	Warning	Gas cylinder
Eye irritation	2A	Warning	Exclamation	
Skin irritation	2	Warning	Exclamation	
Specific Target Organ Toxicity	Single Exposure	3	Warning	Exclamation
Environmental Hazard	Acute Aqua. Tox.	2	—	No Symbol mandated

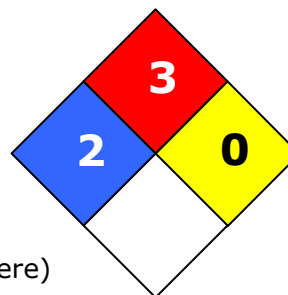
*Note:* The degree of severity is ranked within each hazard class from 1 (Highest Severity) to up to 5 (Lowest Severity). Severity categories do not allow comparisons between classes.

**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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**Label Elements**

<b>Signal Word</b>	<b>DANGER</b>
<b>Pictograms</b>	<b>Hazard Statements</b>
	H304: May be fatal if swallowed and enters airways
	H223: Flammable aerosol
	H280: Contains gas under pressure; may explode if heated
	H319: Causes serious eye irritation H315: Causes skin irritation H336: May cause drowsiness and dizziness
No Symbol mandated	H402: Harmful to aquatic life
<b>Prevention</b>	<b>Precautionary Statements</b>
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261 + P271	Avoid breathing gas/vapors/mist/spray. Use only outdoors or in well ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/eye protection/face protection.

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<b>Response</b>	<b>Precautionary Statements</b>
P301 + P310, P331	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
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.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation occurs: Get medical advice.
<b>Storage</b>	<b>Precautionary Statements</b>
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C [122 °F].
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.

**Other Hazards**

Repeated exposure may cause skin dryness or cracking

**Section 3: Hazardous Ingredients**

<b>CAS #</b>	<b>Chemical Name</b>	<b>Wt%</b>
811-97-2	1,1,1,2-tetrafluoroethane <sup>a)</sup>	45%
141-78-6	ethyl acetate	26-30%
67-64-1	acetone	8-9%
142-82-5	n-heptane	6-7%
108-65-6	1-methoxy-2-propanol acetate <sup>a)</sup>	2-5%

a) Commonly referred to as HFC-134a

b) Commonly known as propylene glycol methyl ether acetate (PGMEA)

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**Section 4: First-Aid Measures**

<i>Exposure Condition</i>	<i>GHS Code/Symptoms/Precautionary Statements</i>
<b>IF SWALLOWED</b>	P301 + P310, P331
<b>Immediate Symptoms</b>	<i>nausea, headaches, dizziness, weakness, unconsciousness</i>
<b>Response</b>	Immediately call a POISON CENTRE/doctor. Do NOT induce vomiting.
<b>IF IN EYES</b>	P305 + P351 + P338, P337 + P313
<b>Immediate Symptoms</b>	<i>irritation, tearing, redness, pain</i>
<b>Response</b>	Rinse cautiously with water for several 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
<b>Immediate Symptoms</b>	<i>Cough, dizziness, drowsiness, headaches, weakness, 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 POISON CENTRE/doctor.
<b>IF ON SKIN</b>	P302 + P352, P333 + P313
<b>Immediate Symptoms</b>	<i>dry skin, redness</i>
<b>Response</b>	Rinse skin with water.  If skin irritation occurs: Get medical advice.

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**Section 5: Fire-Fighting Measures**

<b>Auto-ignition Temperature</b> <sup>a)</sup>	>234 °C [>453 °F]	<b>Flash Point</b> <sup>b)</sup>	-18 °C [-0.4 °F]	<b>LFL [LEL]</b>	1%
				<b>UFL [UEL]</b> <sup>c)</sup>	13%

**In case of fire** P370 + P378

**Response** Use dry chemical, carbon dioxide, or chemical foam to extinguish. Use water spray to cool containers.

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

**Fire-Fighter** Wear self-contained breathing apparatus for fire fighting

**General Information** Aerosol container may erupt with force at temperatures above 50 °C [122 °F]. Vapors may accumulate in low-lying areas. They can cause flash fire or ignite explosively. Produces irritating and toxic fumes in fires or in contact with hot surfaces.

a) Literature value for n-heptane, which is the lowest auto-ignition component.

b) Closed cup literature value for acetone, which is the lowest component flash point.

c) LFL = Lower Flammability [or Explosion] Limit (in volume %);

UFL = Upper Flammability [or Explosion] Limit (in volume %)

**Section 6: Accidental Release Measures**

**Personal Protection** See Section 8. Avoid breathing the mist/vapors.

**Containment** Remove all sources of ignition.  
Contain with inert absorbent (such as soil, sand, vermiculite). Prevent spill from entering drains and waterways.

**Cleaning** 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.

**RECOMMENDATION:** Use a grounded metal container.

**Disposal** Do not flush to sewer. Dispose of spill waste according to Section 13.

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**Section 7: Handling and Storage**

- Prevention**      Keep out of reach of children.  
                           Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
                           Do not spray on an open flame or other ignition source.  
                           Do not pierce or burn, even after use.  
                           Avoid breathing gas/vapors/mist/spray. Use only outdoors or in a well-ventilated area.
- Handling**        Wear protective gloves/clothing/eye protection.  
                           Use non-sparking tools. Take precautionary measures against static discharge.  
                           Wash hands thoroughly after handling.
- Storage**          Store in a well-ventilated area. Keep cool.  
                           Store at moderate temperature. Do NOT store at temperatures above +50 °C [120 °F]. Do NOT store at temperatures below or equal to -26.5 °C [-15.7 °F] since this may crush or damage the container.  
                           Store locked up.

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

**Routes of Entry**

Eyes, ingestion, inhalation, and skin

**Substances with Occupational Exposure Limit Values**

Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
		ppm	ppm
1,1,1,2-tetrafluoroethane	MG Chemicals <sup>a)</sup>	1,000 ppm	
	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada	Not established	Not established
ethyl acetate	ACGIH	400	Not established
	U.S.A. OSHA PEL	400	Not established
	Canada AB	400	Not established
	Canada BC	150	Not established
	Canada ON	Not established	Not established
	Canada QC	400	Not established

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Chemical Name	Country	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
		ppm	ppm
acetone	ACGIH	500 (TWA)	750
	U.S.A. OSHA PEL	1 000	—
	Canada AB	500	750
	Canada BC	250	500
	Canada ON	500	750
	Canada QC	750	1 000
n-heptane	ACGIH	400	500
	U.S.A. OSHA PEL	400	500
	Canada AB	400	500
	Canada BC	400	500
	Canada ON	400	500
	Canada QC	400	500
1-methoxy-2-propanol acetate	ACGIH	Not established	Not established
	U.S.A. WEEL	50	Not established
	Canada AB	Not established	Not established
	Canada BC	50	75
	Canada ON	50	Not established
	Canada QC	Not established	Not established

*Note:* Ingredients are listed in descending weight contribution order (from greatest to least). The ACGIH<sup>1</sup>, OSHA, and Canadian provinces exposure limits were consulted. Limits from by RTECS database<sup>2</sup> of the Canadian Centre for Occupational Health and Safety (CCOHS) a data from suppliers' SDS were also consulted. Short term exposure limits (STEL) are usually for 15 min and long term permissible exposure limits (PEL) for 8 h.

a) MG Chemicals recommended limit corresponding to prevalent international threshold values

**Engineering Controls**

**Ventilation** Keep airborne concentrations below exposure limits.

**Personal Protective Equipment**

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

**RECOMMENDATION:** Use safety glasses with lateral protection (side shields).

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**Skin Protection** Wear appropriate protective clothing to prevent skin contact.

**RECOMMENDATION:** Use of latex protective gloves or other chemically resistant gloves.

**Respiratory Protection** If exposed to gas/vapors/mist/spray, wear respirator such as a half-mask respirator.

**RECOMMENDATION:** Consult your local safety supply store to ensure your respirator has filter cartridges appropriate for the ingredients listed in section 3 of this MSDS, and that the respirator is fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when not being used.

**General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.

**Section 9: Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Appearance</b>	Colorless
<b>Odor</b>	Ethereal	<b>Odor Threshold</b>	Not available
<b>pH</b>	Not available	<b>Specific Gravity @25 °C</b>	0.75
<b>Solubility in Water</b>	Partially miscible	<b>Freezing/Melting Point</b>	Not available
<b>Flash Point</b> <sup>a)</sup>	-18°C [-0.4 °F]	<b>Vapor Pressure</b> <sup>b)</sup> @ 20 °C	13 kPa [98 mmHg]
<b>Boiling Point</b> <sup>a)</sup>	≥56 °C [180 °F]	<b>Evaporation Rate</b>	Not available
<b>Lower Flammability Limit</b> <sup>b)</sup>	1%	<b>Upper Flammability Limit</b> <sup>b)</sup>	13%
<b>Auto-ignition Temperature</b> <sup>d)</sup>	234 °C [453 °F]	<b>Decomposition Temperature</b>	Not available
<b>Viscosity @40 °C</b>	Not established	<b>Vapor Density</b>	>2
<b>Partition Coefficient</b>	Not established		

a) Value for component with the lowest flash point: acetone, Tag closed cup value

b) Estimated using Raoult's Law

c) Estimated based on Acetone. Value is supported by Le Chatelier Principle calculation for solvent part.

d) Literature value for component with lowest auto-ignition: n-heptane

**ACRYLIC CONFORMAL COATING****419C-AEROSOL****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, temperatures above 50 °C [122 °F]), and incompatible substances. Low lying vapors may form explosive mixture with air.
<b>Incompatibilities</b>	Strong oxidizing agents, strong reducing 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****Routes of Exposure**

Eyes, ingestion, inhalation, and skin

**Symptoms Summary**

<b>Eyes</b>	Causes severe eye irritation if splashed in eyes or exposed to vapors. May also cause eye redness, pain, and blurred vision.
<b>Skin</b>	May causes mild to moderate skin irritation, redness, and dry skin.
<b>Inhalation</b>	May cause nose, throat and lung irritation leading to cough or sore throat, and shortness of breath. Overexposure may lead to visual impairment and central nervous system effects such as dizziness, drowsiness, or weakness.
<b>Ingestion</b>	If swallowed, it may nausea, vomiting, abdominal cramps, irritation. See inhalation symptoms.
<b>Chronic</b>	Prolonged and repeated exposure may cause dermatitis and defatting of the skin.

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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>	<b>TCLo inhalation</b>
1,1,1,2-tetrafluoroethane	Not available	Not available	1 500 g/m <sup>3</sup> 4 h Rat	Not available
ethyl acetate	5 620 mg/kg Rat	>20 000 µL/kg Rabbit	45 g/m <sup>3</sup> 2 h Mouse	400 ppm Human
acetone	5 800 mg/kg Rat	>9 400 µL/kg Guinea pig	44 g/m <sup>3</sup> 4 h Rat	10 mg/m <sup>3</sup> 6 h Human
n-heptane	Not established	Not established	29.29 g/ m <sup>3</sup> 4 h Rat	1 000 ppm 6 min human
1-methoxy-2-propanol acetate	8 532 mg/kg Rat	>5 g/kg Rabbit	Not established	400 ppm Human

*Note:* Representative toxicity data from by RTECS database of the Canadian Centre for Occupational Health and Safety (CCOHS)<sup>1</sup> data from supplier MSDS were also consulted.

**Other Toxicological Effects**

<b>Skin corrosion/irritation</b>	N-heptane is a skin irritant. Prolonged or repeated skin contact with the mixture may cause dermatitis
<b>Serious eye damage/irritation</b>	Acetone, ethyl acetate are known serious eye irritant
<b>Sensitization</b> (allergic reactions)	No sensitization effects known
<b>Carcinogenicity</b> (risk of cancer)	No known components listed in IARC, ACGIH, CA Prop 65, or NTP
<b>Mutagenicity</b> (risk of heritable genetic effects)	Not available
<b>Reproductive Toxicity</b> (risk to sex functions)	Not available
<b>Teratogenicity</b> (risk of fetus malformation)	Not available

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<b>STOT-single exposure</b>	Inhalation of ethyl acetate, acetone, n-heptane, and 1-methoxy-2-propanol acetate may affect the central nervous system
<b>STOT-repeated exposure</b>	At very large doses, n-heptane may impair liver function
<b>Aspiration hazard</b>	Cat 1 aspiration hazard because the mixture is composed of more than 10% Cat 1 aspiration toxicants (isoheptane) and has kinematic viscosity at 23 °C of 7 mm <sup>2</sup> /s.

**Section 12: Ecological Information**

The ecotoxicity of the mixture was estimated by the calculation method using the summation of classified ingredients. The IMDG Code criteria and the raw-material MSDS along with supporting data for the classification of registered substances from the European Chemical Agency database (<http://echa.europa.eu>) were used.

Ethyl acetate is not classifiable as an environmental toxicant (biodegradable, with minimal LC50 of 220 mg/L for fathead minnow; LC50 24 h of 560 mg/L and EC50 24 h of 2300 mg/L Daphnia magna (water flea)).

Acetone is not classifiable as an environmental toxicant (with minimal LC50 96 h of 5,540 mg/L for Oncorhynchus mykiss (rainbow trout); EC 50 48 h 13,500 mg/L Daphnia magna (water flea)).

The n-heptane component is an acute category 2 environmental toxicant (with minimal LC50 of 4 mg/L for Carassius auratus (gold fish); EC 50 48 h 13,500 mg/L Daphnia magna (water flea)).

1-methoxy-2-propanol acetate is an acute category 3 environmental toxicant (with minimal LC50 96 h of  $\geq 100$  mg/L Salmo gairdneri).

**Acute Ecotoxicity**

Available toxicity data does not meet classification thresholds

**Chronic Ecotoxicity**

Available toxicity data does not meet classification thresholds

**Biodegradability**

Not available

**Other Effects**

Regulated Volatile Organic Content (VOC) = 38% (330 g/L)

*Note:* Using acetone and 1,1,1,2-tetrafluoroethane exemptions in accordance with EPA and WHIMS

**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 CFR 49 Regulations** (Parts 100 to 185).

**Limited Quantity**



**UN number:** UN1950  
**Shipping Name:** AEROSOL,  
flammable  
**Class:** 2.1  
**Packing Group:** Not applicable  
**Marine Pollutant:** No



**Air**

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

**Limited Quantity**



**UN number:** UN1950  
**Shipping Name:** AEROSOL,  
flammable  
**Class:** 2.1  
**Packing Group:** Not applicable  
**Marine Pollutant:** No



**Sea**

**Refer to IMDG regulations.**

**Limited Quantity**



**UN number:** UN1950  
**Shipping Name:** AEROSOL,  
flammable  
**Class:** 2.1  
**Packing Group:** Not applicable  
**Marine Pollutant:** No



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

**ACRYLIC CONFORMAL COATING****419C-AEROSOL****Section 15: Regulatory Information****Canada****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****CAA** (Clean Air Act, USA)

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

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

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

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

This product contain  $\leq 1.5\%$  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.

This product contains 26% ethyl acetate (CAS# 141-78-6) and 9% acetone (CAS# 67-64-1), which are subject to the CERCLA reporting requirements at the 5000 lb (2268 kg) threshold.

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

All substances are TSCA listed.

**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, Sept 2, 2011 revision, USA).

This product does not contain any of the listed substances.

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**ACRYLIC CONFORMAL COATING****419C-AEROSOL****Europe****RoHS**

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

**WEEE**

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

**Section 16: Other Information**

<b>MSDS Prepared by</b>	Michel Hachey
<b>Date of Revision</b>	29 January 2014
<b>Supersedes</b>	03 February 2011
<b>Reason for Changes:</b>	Change to GHS classification and format

**References**

- 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®), MDL Information Systems, Inc.

**Abbreviations**

ACGIH	American Conference of Governmental Industrial Hygienists (USA)
EC50	Half maximal effective concentration
EL50	Half maximal effective loading
NOELR	No observable effect loading ratio
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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Quality System Certified to ISO 9001:2008

SAI Global File #004008  
Burlington, Ontario, Canada

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## ACRYLIC CONFORMAL COATING

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**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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