SAI Global File #004008 Burlington, Ontario, Canada

419C (AEROSOL)

# **Safety Data Sheet**

#### **Section 1: Identification**

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

Product Identifier: 419C Acrylic Conformal Coating (Aerosol)

**Other Means of Identification:** 419C Vernis Acrylique de Tropicalisation (Aérosol)

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

+1-800-340-0772 +1-800-340-0773 E-MAIL support@mgchemicals.com www.mgchemicals.com 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@mqchemicals.com

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

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

# **Classification of Hazardous Chemical**

## **GHS Categories**

Criteria		Category	Signal Word	Pictograms
Flammable Aerosol		2	Warning	Flame
Gas Under Pressure		Liquefied gas	Warning	Gas cylinder
Reproductive Toxicity		2	Warning	Health
Eye Irritation		2	Warning	Exclamation
Specific Target Organ Toxicity	Single Exposure	3	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), which is opposite to HMIS and NFPA conventions. Severity category rankings do not allow comparisons between classes.

# **Label Elements**

Signal Word	WARNING
Pictograms	Hazard Statements
	H223: Flammable aerosol
	H280: Contains gas under pressure; may explode if heated
	H361: Suspected of damaging fertility or the unborn child

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Pictograms	Hazard Statements
^	H319: Causes serious eye irritation
	H336: May cause drowsiness and dizziness
\•/	
none	H412: Harmful to aquatic life with long lasting effects
Prevention	Precautionary Statements
P102	Keep out of reach of children.
P201, P202	Obtain special instructions before use. 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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing vapors, mist, or spray.
P271	Use only outdoors or in well-ventilated area.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves and eye protection.
P273	Avoid release to the environment.
Response	Precautionary Statements
P308 + P313	IF exposed or concerned for all routes of exposure: Get medical advice or attention.
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.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTRE or doctor if you feel unwell.

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Continued ...

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

# **Hazards Not Otherwise Classified**

Other Criteria	Hazard Statements/Precautionary Statement	Signal Word	Pictograms
Simple Asphyxiants	May displace oxygen and cause rapid suffocation	Warning	none
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	30%
141-78-6	ethyl acetate	27%
74-98-6	propane	13%
75-28-5	isobutane	7%
108-65-6	1-methoxy-2-propyl acetate	2%
110-82-7	cyclohexane	0.3%
108-88-3	toluene	0.3%



# ISO 9001:2015 Quality Management System SAI Global File #004008

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Section 4: First-Aid Mea	asures	
Exposure Condition	GHS Code/Symptoms/Precautionary Statements	
IF IN EYES	P305 + P351 + P338, P337 + P313	
Immediate Symptoms	redness, irritation, pain, blurred vision	
Response	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.	
IF INHALED	P304 + P340, P312, P308 + P313	
Immediate Symptoms	dizziness, drowsiness, headaches, cough, sore throat, nausea, weakness	
Response	Remove person to fresh air and keep comfortable for breathing.	
	If feeling unwell: Call a POISON CENTRE or doctor.	
	IF exposed or concerned: Get medical advice.	
IF ON SKIN	P302 + P353, P308 + P313	
Immediate Symptoms	mild irritation, redness, dry skin	
Response	Rinse with water or shower.	
	IF exposed or concerned: Get medical advice.	
IF SWALLOWED	P301 + P330, P310, P308 + P313	
Immediate Symptoms	nausea, vomiting, abdominal cramps, diarrhea, irritation	
Response	Rinse mouth. Do NOT induce vomiting.	
	IF exposed or concerned: Get medical advice.	

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

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

foam to extinguish.

Use water spray to cool containers.

**Specific Hazards** Aerosol container may erupt with force at temperatures above

50 °C [122 °F].

The vapors are heavier than air and may accumulate in low-lying areas. Vapors may travel long distances and ignite at an ignition source, which can cause a flashback or an explosion.

Prevent fire-fighting wash from entering waterway or sewer

system.

**Combustion Products** Combustion 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

Avoid breathing the spray, mist or vapors. Remove or keep

away all sources of extreme heat or open flames.

**Environmental Precautions** 

Prevent spill from entering drains and waterways.

**Containment Methods** Not applicable

Mot applicable

**Cleaning Methods** Sprinkle inert absorbent compound onto spill, then sweep into

the container. Collect liquid in a sealable, chemical-resistant container. Wash spill area with soap and water to remove the

last traces of residue.

**Disposal Methods** Dispose of spill waste according to Section 13.



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# **Section 7: Handling and Storage**

**Prevention** Keep out of reach of children.

Obtain special instructions before use. Do not handle until all

safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Do not spray on an open flame or other ignition source. Do

not pierce or burn, even after use.

Avoid breathing vapors, mist, or spray. Use only outdoors or

in a well-ventilated area.

Avoid release to the environment.

**Handling** Wear protective gloves and eye protection. Wash hands

thoroughly after handling.

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

exceeding 50 °C [122 °F].

Store in well-ventilated place.

Store locked up.

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

# **Substances with Occupational Exposure Limit Values**

Chemical Name	Country/Region	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	500 ppm	750 ppm
	Canada QC	750 ppm	1 000 ppm
ethyl acetate	ACGIH	400 ppm	Not established
	U.S.A. OSHA PEL	400 ppm	Not established
	Canada AB	400 ppm	Not established
	Canada BC	150 ppm	Not established
	Canada ON	400 ppm	Not established
	Canada QC	400 ppm	Not established

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Chemical Name	Country/Region	Long Term Exposure Limits (PEL)	Short Term Exposure Limits (STEL)
propane	ACGIH	See footnote a)	Not established
	U.S.A. OSHA PEL	1 000 ppm	Not established
	Canada AB	1 000 ppm	Not established
	Canada BC	1 000 ppm	Not established
	Canada ON	1 000 ppm	Not established
	Canada QC	1 000 ppm	Not established
isobutane	ACGIH	Not established	Not established
	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	Not established	Not established
	Canada BC	Not established	Not established
	Canada ON	1 000 ppm	Not established
	Canada QC	Not established	Not established
1-methoxy-2-propyl	ACGIH	Not established	Not established
acetate	U.S.A. OSHA PEL	Not established	Not established
	Canada AB	Not established	Not established
	Canada BC	50 ppm	75 ppm
	Canada ON	50 ppm	Not established
	Canada QC	Not established	Not established
cyclohexane	ACGIH	100 ppm	Not established
	U.S.A. OSHA PEL	300 ppm	Not established
	Canada AB	100 ppm	Not established
	Canada BC	100 ppm	Not established
	Canada ON	100 ppm	Not established
	Canada QC	300 ppm	Not established
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.

a) Refer to the ACGIH Appendix F: Minimum Oxygen Content for Asphyxia TLV Basis

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

lateral protection.

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

chemically resistant gloves.

For incidental contacts, use disposable nitrile, neoprene or other

chemically resistant gloves.

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

wear respirator such as a half-mask respirator with organic

vapor cartridges.

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

or a self-contained breathing apparatus.

**RECOMMENDATION:** Consult your local safety supply store to ensure that your respirator has a NIOSH (U.S.) approved filter cartridges appropriate for the ingredients listed in Section 3. The respirator should be fitted to the employee by a professional. Ensure vapor cartridges are stored in sealed plastic bags when

not being used.

## **General Hygiene Considerations**

Wash hands thoroughly with water and soap after handling.



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# **Section 9: Physical and Chemical Properties**

Physical State	Liquid, in aerosol format	Lower Flammability Limit <sup>b)</sup>	2%
Appearance	Colorless	Upper Flammability Limit <sup>b)</sup>	10%
Odor	Ethereal	Vapor Pressure b) @20 °C	~13 kPa [~94 mmHg]
Odor Threshold	Not available	Vapor Density	≥2 (Air =1)
pH	Not available	Relative Density @25 °C	0.88
Freezing/Melting Point	Not available	Solubility in Water	Partially miscible
Initial Boiling Point <sup>a)</sup>	≥56 °C [133 °F]	Partition Coefficient- n-octanol/water	Not available
Flash Point a)	-17 °C [1.4 °F]	Auto-ignition Temperature <sup>c)</sup>	427 °C [433 °F]
Evaporation Rate	Not available	Decomposition Temperature	Not available
Flammability	Flammable	Viscosity @25 °C	Not available

- a) Estimated based on acetone value
- b) Calculated based on Raoult's Law and Le Chatelier's principle
- c) Literature value for component with lowest auto-ignition: acetone

# Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Chemically stable at normal temperatures and pressures
Conditions to Avoid	Avoid open flames, ignition sources, temperatures above 50 °C [122 °F], and incompatible substances.
Incompatibilities	Strong oxidizing agents, strong acids, and 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**

**Eyes** Causes eye redness, irritation, blurred vision, and pain.

**Skin** May cause dry skin, redness and/or mild irritation.

**Inhalation** May cause dizziness, drowsiness, cough, or nausea. For extreme

overexposures, it may cause sore throat, headaches, weakness, or

unconsciousness.

**Ingestion** May cause nausea, vomiting, abdominal cramps, diarrhea or irritation.

**Chronic** Prolonged and repeated exposure may cause dermatitis and defatting

of the skin.

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

Chemical Name	LD50	LD50	LC50
	oral	dermal	inhalation
acetone	5 800 mg/kg	20 mL/kg	16 000 ppm
	Rat	Rabbit	Rat 6 h
ethyl acetate	5 620 mg/kg	>20 000 mg/kg	45 g/m³
	Rat	Rabbit	Mouse 2 h
propane	Not	Not	>800 000 ppm
	applicable	applicable	Rat 4 h
isobutane	Not	Not	>570 000 ppm
	applicable	applicable	Rat 4 h
1-methoxy-2-propanol acetate	8 532 mg/kg	>5 g/kg	Not
	Rat	Rabbit	available
cyclohexane	>5 000 mg/kg	6 240 mg/kg	>32.88 mg/L
	Rat	Rabbit	Rat 4 h
toluene	5 580 mg/kg	>5 000 mg/Kg	49 mg/L
	Rat	Rabbit	Rat 4 h

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

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## Other Toxicological Effects

**Skin Corrosion/Irritation**Based on available data, the classification criteria

are not met.

**Serious Eye Damage/Irritation** Acetone and ethyl acetate are serious eye irritants.

**Sensitization** (allergic reactions)

Based on available data, the classification criteria

are not met.

Carcinogenicity (risk of cancer)

None of the ingredients are classified or listed as a carcinogen by IARC, ACGIH, CA Prop 65, or NTP.

**Mutagenicity** (risk of heritable genetic effects)

Based on available data, the classification criteria

are not met.

Reproductive Toxicity

At high doses, spermatogenisis was observed in

male rat by inhalation of toluene.

**Teratogenicity** 

(risk to sex functions)

(risk of fetus malformation) inhalatio

Fetotoxicity is observed in animal studies for inhalation and oral exposures for toluene. Extreme consumption of ethanol also presents risks for the

newborn.

**STOT-Single Exposure** Inhalation of ethyl acetate, acetone, cyclohexane,

and toluene may affect the central nervous system.

At very large dosed.

**STOT-Repeated Exposure** Based on available data, the classification criteria

are not met. At very large doses, n-heptane may

impair liver function.

**Aspiration Hazard** Based on available data, the classification criteria

are not met. There is less than 10% category 1

components.

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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.

Cyclohexane is an acute category 1 and chronic category 1 environmental toxicant. It has a minimal LC50 96 h of 4.53 mg/L for Pimephales promelas (fathead minnow) and an EC50 48 h of 0.9 mg/L for Daphnia magna.

Toluene is an acute category 2 aquatic environmental toxicant. It has a 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); and EC50 24 h of 10 mg/L Pseudokirchneriella subcapitata (green algae).

Ethyl acetate, acetone and 1-methoxy-2-propyl acetate are not classifiable as an environmental toxicant with minimal LC50 of >100 mg/L.

- Ethyl acetate is biodegradable and has a minimal LC50 96 h of 220 mg/L for Pimephales promelas (fathead minnow); and a LC50 24 h of 560 mg/L and EC50 24 h of 2 300 mg/L for Daphnia magna (water flea).
- Acetone has a minimal LC50 96 h of 5 540 mg/L for Oncorhynchus mykiss (rainbow trout) and an EC50 48 h of 13 500 mg/L for Daphnia magna (water flea).
- The 1-methoxy-2-propyl acetate ingredient has a minimal LC50 96 h of ≥100 mg/L for Oncorhynchus mykiss (rainbow trout) and an EC50 48 h of >500 mg/L for Daphnia magna (water flea).

#### **Acute Ecotoxicity**

See Chronic Ecotoxicity.

### **Chronic Ecotoxicity**

Category 3

Harmful to the aquatic life with long lasting effects.

Avoid release to the environment.

#### **Biodegradability**

Not available

#### Other Effects

Volatile Organic Compound (VOC) content = 60% [524 g/L]

Note: Using acetone exemption in accordance with EPA and WHIMS

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# **Section 13: Disposal Information**

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

# **Section 14: Transport Information**

#### Ground

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

### **Limited Quantity**



#### Air

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

# Limited Quantity Max Net Qty/Pkg

Max Net Qty/Pkg 30 kg Gross



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 <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 toluene, which is listed as hazardous air pollutants.

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

This product contains ethyl acetate (CAS# 141-78-6) and acetone (CAS# 67-64-1), which are subject to the CERCLA reporting requirements at the 5 000 lb (2 268 kg) threshold.

This product contains toluene (CAS# 108-88-3; reportable quantity = 1 000 lb), which is subject to the reporting requirements of section 313 Title III of the SARA of 1986 and 40 CFR part 372.

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

All substances are TSCA listed.

California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity).

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**

MSDS Prepared by Regulatory Department

**Date of Revision** 26 February 2020 **Supersedes** 22 August 2018

**Reason for Changes:** Update to the emergency phone numbers.

#### 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®), MDL Information Systems, Inc.

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#### **Abbreviations**

ACGIH American Conference of Governmental Industrial Hygienists (USA)

EC50 Half maximal effective concentration 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

**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>

**Mailing Addresses** Manufacturing & Support Head Office

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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.