

# Material Safety Data Sheet

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## Section 1: Product Identification

**MSDS Code: 419C - Aerosol Name: Acrylic Conformal Coating**

**Related Part Numbers: 419-340G**

Use: It provides an all round protective coating for printed circuit board against moisture, corrosion, weather, and thermal shock.

## Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
811-97-2	1,1,1,2-tetrafluoroethane	44-49	100 ppm	N/A	N/A
141-78-6	Ethyl acetate	26-30	400 ppm	N/A	N/A
67-64-1	Acetone	8-9	500 ppm	750 ppm	N/A
142-82-5	N-Heptane	6-7	400 ppm	500 ppm	500 ppm
108-65-6	PGMEA	5-6	100 ppm	N/A	N/A

## Section 3: Hazards Identification

<b>Eyes:</b>	Causes severe eye irritation.
<b>Skin:</b>	May cause skin irritation with pain and stringing, especially when skin is abraded.
<b>Inhalation:</b>	Solvents may cause respiratory tract irritation, headaches and possible dizziness.
<b>Ingestion:</b>	May cause respiratory and digestive tract irritation.
<b>Chronic:</b>	Prolonged and repeated exposure may cause dermatitis, defatting of the skin, liver and kidney damage, and adverse central nervous system effects.

## Section 4: First Aid Measure

<b>Eyes:</b>	Remove contact lenses. Flush with water or saline. Get medical aid.
<b>Skin:</b>	Wash skin with large quantities of soap and water. Get medical aid if symptoms persist.
<b>Inhalation:</b>	Immediately remove from exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
<b>Ingestion:</b>	Do not induce vomiting. If conscious, give 1 to 2 glasses of water. Get medical aid.

## Section 5: Fire Fighting Measures

<b>Autoignition Temperature:</b>	N/A	<b>Flash Point:</b>	-20 °C [-4 °F]	<b>LEL / UEL:</b>	N/A
<b>Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.				
<b>General Information:</b>	Will burn if involved in a fire. Flash back along vapor trail is possible.				

## Section 6: Accidental Release Measures

**Spill Procedure:** Remove all sources of ignition. Provide adequate ventilation. Wear appropriate personal protection. Sprinkle absorbent compound onto spill, then sweep into a plastic or metal container. Wipe up further residue with paper towel and place in container. Wash spill area with soap and water.

## Section 7: Handling and Storage

- Handling:** Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.
- Storage:** Keep away from sources of ignition. Store in cool, dry, and well-ventilated area, away from incompatible substances. Keep from freezing.

## Section 8: Exposure Controls

- Routes of entry:** Eyes, ingestion, inhalation and skin
- Ventilation:** Use adequate general or local exhaust ventilation to keep airborne concentrations below exposure limits.
- Personal Protection:** Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

## Section 9: Physical and Chemical Properties

- |  |  |  |   |                   |
|--|--|--|---|-------------------|
| <b>Physical State:</b><br>Aerosol        | <b>Odor:</b><br>Ether-like, gasoline and minty | <b>Solubility in Water:</b><br>Partial | <b>Evaporation Rate:</b><br>Slower than ether |                   |
| <b>Boiling Point:</b><br>≥66 °C [150 °F] | <b>Specific Gravity:</b><br>0.874              | <b>Vapor Pressure:</b><br>N/A          | <b>Vapor Density:</b><br>Heavier than Air     | <b>pH:</b><br>N/A |

## Section 10: Stability and Reactivity

- Stability:** Stable at normal temperatures and pressures
- Conditions to avoid:** Temperatures over 40 °C [104 °F], ignition sources, and incompatible substances
- Incompatibilities:** Strong oxidizers, hydrogen peroxide, Lewis or mineral acids
- Polymerization:** Will not occur
- Decomposition:** Carbon monoxide, carbon dioxide, nitrogen oxides

## Section 11: Toxicological Information

- |  |   |
|--|---|
| <b>Sensitization:</b> (effects of repeated exposure)             | Prolonged or repeated skin contact may cause dermatitis |
| <b>Carcinogenicity:</b> (risk of cancer)                         | No  |
| <b>Teratogenicity:</b> (risk of malformation in an unborn fetus) | No  |
| <b>Reproductive Toxicity:</b> (risk of sterility)                | No  |
| <b>Mutagenicity:</b> (risk of heritable genetic effects)         | No  |

Lethal Exposure Concentrations:	Ingestion (LD50):	Inhalation (LC50):	Skin (LD50):	Inhalation (TCLo):
1,1,1,2 Tetrafluoro ethane	N/E	1500 gm/m <sup>3</sup> /4H rat	N/E	50000 ppm/6H/2Y rat
Ethyl Acetate	4100 mg/kg mouse	45 gm/m <sup>3</sup> /2H mouse	>20 ml/kg rabbit	200 ppm/6M mouse
Acetone	3000 mg/kg mouse	44 mg/m <sup>3</sup> mouse	9400 uL/kg guinea-pig	12.63 ppm rabbit
N-Heptane	N/E	103 mg/m <sup>3</sup> /2H Rat	N/E	420 mg/m <sup>3</sup> /12H/2w rat
PGMEA	8532 mg/kg rat	N/A	>5000 mg/kg rabbit	N/A

## Section 12: Ecological Information

**Volatile Organic compounds, % by weight:** 37.8%  
**Volatile Organic compounds, grams per liter:** 330 g/L

## Section 13: Disposal Information

**General Information:** Dispose of in accordance with all local, provincial, state, and federal regulations. Water runoff can cause environmental damage.

## Section 14: Transportation Information

**Ground:** (all sizes 4 liter and smaller)

Classified as **Consumer Commodity/ORM-D**.

**Ground:** (all sizes larger than 4 liter)

Shipping Name: **PAINT RELATED MATERIAL**, UN number: **1263**, Class: **3**, Packing Group: **II**,  
Flash Point: -20 °C. **Shipper must be trained and certified. Refer to TDG regulations (Canada); Refer to CFR 49 regulations (USA).**

**Air: Shipper must be trained and certified. Refer to IATA Dangerous Goods Regulations.**

Shipping Name: **PAINT RELATED MATERIAL**, UN number: **1263**, Class: **3**, Packing Group: **II**,  
Flash Point: -20 °C. Subsidiary Risk – nil; Recommend using original MG Chemicals certified outer cartons.  
Tape all seams on the carton. Hazard Label required – Flammable Liquid. A double arrow orientation label is required and is already printed on the original outer carton.

**Sea: Shipper must be trained and certified. Refer to IMDG regulations.**

Shipping Name: **PAINT RELATED MATERIAL**, UN number: **1263**, Class: **3**, Packing Group: **II**,  
Flash Point: -20 °C. Storage category "A", segregation as for class 9 but away from sources of heat and separated from goods of class 1 except for those in division 1.4.

## Section 15: Regulatory Information

### CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

### **DSL**

All ingredients in this product are listed on the Domestic Substances List

### **WHMIS**

This product belongs to the following categories:

B2 Flammable  
D2B Toxic Material causing other toxic effects, Skin irritation

### **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.

### **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 any chemicals listed as hazardous air pollutants.

### **Health Canada**

Products produced by MG Chemicals intended for retail display conform to the Canadian Consumer Labeling Regulations.

### USA

**SARA** (Superfund Amendments and Reauthorization Act of 1986, USA, 40 CFR 372.4)

None of the chemicals in this product have a reportable quantity.

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

This product does not contain any chemicals 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.

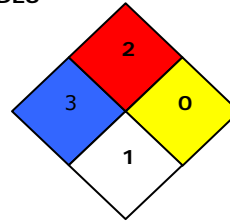
**California Proposition 65** (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product does not contain any chemicals listed.

**HMIS RATING**

<b>HEALTH:</b>	<b>3</b>
<b>FLAMMABILITY:</b>	<b>2</b>
<b>PHYSICAL HAZARD:</b>	<b>0</b>
<b>PERSONAL PROTECTION:</b>	<b>1</b>

**NFPA CODES**



**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**

**Definitions:** N/A = not applicable, N/E = not established

**Disclaimer:** This material safety data sheet is provided as an information resource only. M.G. Chemicals believes the information contained herein is accurate and compiled from reliable sources. It is the responsibility of the user to verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with federal, state, and local regulations.

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