

Material Safety Data Sheet

Revision DatePrepared byNovember 9, 2010Patti RogersHead Office9347 - 193 Street, Surrey, B.C., V4N 4E7

Technical Information 1-800-201-8822 or support@mgchemicals.com Emergency Phone Canutech (613) 996-6666 Collect 24 hrs

For updates please download from <u>www.mgchemicals.com</u> or fax requests to 1-800-708-9888

Section 1: Product Identification

MSDS Code: 419B - liquid Name: Acrylic Lacquer Conformal Coating Related Part Numbers: 419B-55ML; 419B-1L; 419B-4L; 419B-20L

Use: Protective coating for pc boards.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
108-88-3	Toluene	32-35%	50ppm	100ppm	150ppm
64-17-5	Ethyl alcohol	9-10%	200ppm	200ppm	250ppm
110-43-0	2-heptanone	9-10%	50ppm	100ppm	N/E
110-19-0	2-methylpropyl ester acetic acid	9-10%	150ppm	150ppm	N/E
141-78-6	Ethyl acetate	4.5-5.0%	400ppm	400ppm	N/E
67-56-1	Methanol	0.4-0.5%	200ppm	200ppm	250ppm

Section 3: Hazards Identification

Eyes:	Causes severe eye irritation.
Skin:	May cause skin irritation with pain and stinging, especially if skin is abraded.
Inhalation:	Solvents may cause respiratory tract irritation, headache, and possible dizziness.
Ingestion:	May cause respiratory and digestive tract irritation.
Chronic:	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

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

Section 5: Fire Fighting Measures

Autoignition Temperature:	465°C	Flash Point: -18°C	LEL / UEL: 1 / 36	
Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or chemical foam.			
General Information:	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 a cool, dry, 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								
Physical State:	Liquid	Odor:	Ethereal	Solubility in water:	Partial	Evaporation Rate:	Fast	
Boiling Point:	59°C	Specific Gravity:		Vapor Pressure:	1PSI @21°C	Vapor Density:	4.1 (Air=1)	pH : 7

Section 10: Stability and Reactivity

Stability:	Stable at normal temperatures and pressures.
Conditions to avoid:	Temperatures over 40°C, 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

Sensitization: (effects of repeated exposure)		Prolonged or repeated skin contact may cause dermatitis.					
Carcinogenicity: (risk of cancer)			No				
Teratogenicity: (risk of malformation fetus)	No						
Reproductive Toxicity: (risk of ster	rility)	No					
Mutangenicity: (risk of heritable ge	netic effects)	No					
Lethal Exposure Concentrations:	Ingestion (LD50):		Inhalation (LC50):	Skin (LD50):	Inhalation (TCLo):		
Toluene	636 mg/kg Rat		49 gm / m³/4H	14100 Ul/kg Rabbit	1000 ppm/6H Rat		
Ethyl alcohol	7060 mg/kg Rat		20000 ppm/10H Rat	N/A	50000 mg/ m³/2H Mouse		
2-heptanone	1670 mg/kg Rat		N/A	12600 uL/kg Rabbit	7000 mg/ m³/4H Guinea pig		
2-methylpropyl ester acetic acid	13400 mg/kg Rat		N/A	>17400 mg/kg Rabbit	N/A		
Ethyl acetate	5620 mg/kg Rat		200 gm/m ³ Rat	>20 mL/kg Rabbit	200 ppm/6H Mouse		
Methanol	7300 mg/kg M	louse	50 gm/m3/2H Mouse	15800 mg/kg Rabbit	5000 ppm/6H Rat		



Section 12: Ecological Information

General Information:

Avoid runoff into storms and sewers, which lead into waterways. Water runoff can cause environmental damage

Volatile Organic Compounds, % by weight: 53% Volatile Organic Compounds, grams per litre: 450.5 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 or less)

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: -18°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: -18°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: **11**, Flash Point: -18°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

<u>CANADA</u>

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

Health Canada

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

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.

WHMI S

This product belongs to the following categories: B2,D2A

<u>USA</u>

CAA (Clean Air Act, USA)

This product does not contain any class 1-ozone depletors.

This product does not contain any class 2-ozone depletors.

This product contains methanol (CAS #67-56-1, 2% by weight), listed as a hazardous air pollutant.

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

This product contains the following chemical subject to the reporting requirements of section 313 title III of the SARA of 1986 and the 40 CFR part 372: Methanol CAS# 64-56-1 0.1% and Toluene CAS# 108-88-3.

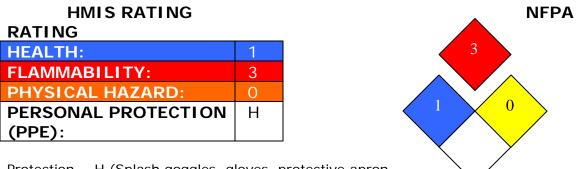
EPCRA (Emergency Planning and Right to Know Act, USA, 40 CFR 372.45

This product contains the following chemical subject to the reporting requirements of section 313 title III of the SARA of 1986 and the 40 CFR part 372: Methanol CAS# 64-56-1 0.1% and Toluene CAS# 108-88-3.



TSCA (Toxic Substances Control Act of 1976, USA) All substances are TSCA listed.

California Proposition 65 (Chemicals know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA) This product contains toluene, listed under the chemicals known to the state to cause reproductive toxicity.



Protection = H (Splash goggles, gloves, protective apron, and vapor respirator.)

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.