

Material Safety Data Sheet

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Section 1: Product Identification

MSDS Code: 422B - aerosol **Name: Silicone Conformal Coating**

Related Part Numbers: 422B-340G

Use: Protective coating for pc boards.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
115-10-6	dimethylether	33 - 37%	1000ppm	n/e	n/e
1330-20-7	xylenes	18 - 20%	100ppm	100ppm	150ppm
67-64-1	2-propanone	20 - 22%	750ppm	1000ppm	1000ppm
100-41-4	Ethylbenzene	1 -2%	100ppm	100ppm	N/A
78-93-3	2-butanone	12 -14%	200ppm	200ppm	300ppm

Section 3: Hazards Identification

- Eyes:** Causes severe eye irritation.
- Skin:** Harmful if absorbed through the skin. Irritant. Can cause redness, dryness, and loss of natural oils.
- Inhalation:** Harmful if inhaled. May cause nausea, dizziness, hallucinations, headache, and loss of coordination.
- Ingestion:** Harmful if swallowed. May cause headache, dizziness, nausea, vomiting, and abdominal pain. May cause central nervous system depression.
- Chronic:** No effects known.

Section 4: First Aid Measure

- Eyes:** Remove contact lenses. Flush with water or saline for 20 minutes. 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:** 432°C
- Flash Point:** -18°C
- LEL / UEL:** 0.8/13.1
- Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.
- General Information:** Will burn if involved in a fire. Containers may explode in the heat of 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:	Aerosol	Odor:	ethereal	Solubility:	insoluble	Evaporation Rate:	moderate
Boiling Point:	55°C	Specific Gravity:	0.90	Vapor Pressure:	40 PSI @21°C	Vapor Density:	3.1 (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 acids, bases, and oxidizing agents

Polymerization: Will not occur.

Decomposition: **Formaldehyde** (only at temperatures over 160C), dimethylcyclosiloxanes, methylphenylcyclosiloxanes, carbon monoxide, and carbon dioxide, halogens, halogen acids, possibly carbonyl halides.

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) Prolonged or repeated skin contact may cause dermatitis.

Carcinogenicity: (risk of cancer) IARC 2B: (Ethylbenzene) possibly carcinogenic to humans.

Teratogenicity: (risk of malformation in an unborn fetus) No

Reproductive Toxicity: (risk of sterility) The CCOHS list Xylene as a Reproductive Hazard.

Mutagenicity: (risk of heritable genetic effects) No

Lethal Exposure Concentrations:	Ingestion (LD50):	Inhalation (LC50):	Skin (LD50):	Inhalation (TCLo):
Acetone	3000gm/kg Mouse	50,100 mg/m ³ /8H	>9400 uL/Kg Guinea Pig	30,000 mg/m ³ /2H Mouse
Xylene	2119 mg/kg Rat	5000 ppm/4H Rat	>1700 mg/kg Rabbit	1600 ppm/20H/7D (Intermittent) Rat
Ethylbenzene	3500 mg/kg Rat	55000 mg/m ³ /2H Rat	17800 uL/kg Rabbit	600 ppm/6m Mouse
2-butanone	2737 mg/kg Rat	32 gm/m ³ /4H Rat	6480 mg/kg Rabbit	750 ppm/7h 7D 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: 56.5%

Volatile Organic compounds, grams per litre: 317 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 Canada:

Classified as **Consumer Commodity**.

Recommend Shipper be trained and certified. Refer to TDG regulations (Canadian Transportation of Dangerous Goods regulations).

Ground USA:

Classified as **ORM-D**.

Recommend Shipper be trained and certified. Refer to USA CFR 49 Regulations (Parts 100 to 185).

Air:

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

UN number: **1950**, Shipping Name: **AEROSOLS, Flammable**, Class: **2.1**, Flash Point: -18°C.

Refer to Pkg Instr Y203. Recommend using original MG Chemicals certified outer cartons. Tape all seams on the carton. Hazard Label required – Aerosols, flammable. A double arrow orientation label is required and is already printed on the original outer carton.

Sea - All Sizes:

Shipper must be trained and certified. Refer to IMDG regulations.

UN number: **1950**, Shipping Name: **AEROSOLS, Flammable**, Class: **2.1**, 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

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: **A, B5, D2A**

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 contains xylene and ethyl benzene, two chemicals listed as hazardous air pollutants.

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

This product contains toxic chemicals, which has a reportable quantity. (Xylene CAS# 1330-20-7, 20% and Ethylenebenzene CAS# 100-41-4, 1.5%)

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

This product contains (Xylene CAS# 1330-20-7 20%) and (Ethylenebenzene CAS# 100-41-4, 1.5%), toxic 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.

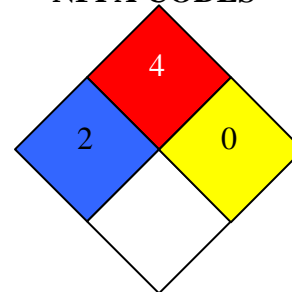
California Proposition 65 (Chemicals known to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

This product contains (Ethylenebenzene, CAS# 100-41-4, 1.5%) known to the state to cause cancer.

HMIS RATING

HEALTH:	2
FLAMMABILITY:	4
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	

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.