

Material Safety Data Sheet

Revision Date Prepared by Technical Information

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Section 1: Product Identification

MSDS Code: 4223-liquid Name: Urethane Conformal Coating

Related Part Numbers: 4223-55ML; 4223-1L; 4223-4L

Use: Protective coating for pc boards.

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
1330-20-7	Xylene	40 - 50	100	100	150
100-41-4	Ethyl benzene	10 - 12	100	100	125

Section 3: Hazards Identification

Eyes: Causes severe eye irritation, tearing, and redness.

Skin: May cause skin irritation.

Inhalation: Product is irritating to the nose, throat, and respiratory tract.

Ingestion: Harmful if swallowed in large amounts. Aspiration of material into lungs can cause lung inflammation

or damage.

Chronic: May cause defatting of skin. Extreme exposure over long periods of time may cause liver and kidney

damage.

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 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: N/e Flash Point: 27 °C LEL / UEL: 1/7

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

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do Handling:

not expose container to heat or flame.

Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible Storage:

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 Clear Odor: **Aromatic** Solubility: Negligible Evaporation N/E

State: Liquid Rate:

Boiling N/E Specific 0.95 Vapor N/E Vapor N/E pH: N/E

Point: Gravity: Pressure: Density:

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Storage temperatures over 40°C, ignition sources, and incompatible substances.

Incompatibilities: Oxidizers such as peroxides, chlorates, and permanganates.

Polymerization:

Decomposition: Carbon monoxide, carbon dioxide, and hydrocarbons

Section 11: Toxicological Information

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

Carcinogenicity: (risk of cancer) Ethyl benzene: IARC - 2B - 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.

Mutangenicity: (risk of heritable genetic effects)

Lethal Exposure Ingestion (LD50): Inhalation (LC50): Skin Inhalation

Concentrations: (LD50): (TCLo):

Xylene 2119 mg/kg Mouse 5000 ppm/4H Mouse >1700 mg/kg 15 mg/m3/24H/85D Rat

Rabbit

3500 mg/kg Rat 35500 mg/m3/2H 17800 uL/kg 740 ppm/6H/92D Rat Ethyl benzene

Rabbit mouse

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: 58% Volatile Organic compounds, grams per litre: 551 g/L

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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: III, Flash Point: 27°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: **III**, Flash Point: 27°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: **III**, Flash Point: 27°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: B3, D2B

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)

Ethyl Benzene CAS# 100-41-4 (<10%) and Xylene 1330-207 (15-40%) is listed under section 313 as toxic material.

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

This product contains Ethyl Benzene CAS# 100-41-4 (<10%) and Xylene 1330-207 (15-40%) a toxic chemical 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 know to cause cancer or reproductive toxicity, May 1, 1997 revision, USA)

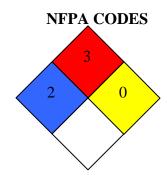
This product contains ethyl benzene, listed under chemicals known to the state to cause cancer.

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HMIS RATING

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	0
PERSONAL PROTECTION:	



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.