

Material Safety Data Sheet

Revision Date November 9, 2010 Head Office 9347 - 193 Street, Surrey, B.C., V4N 4E7	Prepared by Patti Rogers	Technical Information 1-800-201-8822 or support@mgchemicals.com Emergency Phone Canutech (613) 996-6666 Collect 24 hrs
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Section 1: Product Identification

MSDS Code: 701 – Liquid **Name: Negative Photo Resist Type 1****Related Part Numbers: 701**

Use: Negative photo etch resist

Section 2: Hazardous Ingredients

CAS#	Chemical Name	Percentage by weight	ACGIH TWA	Osha Pel	Osha Stel
110-49-6	2-methoxyethyl acetate	93-100	24mg/m ³	120mg/m ³	N/e

Section 3: Hazards Identification

WHMIS Codes: B2, D2A**NFPA Ratings:** Health 1 Flammability 2 Reactivity 0**HMIS Ratings:** Health 1 Flammability 2 Reactivity 0**Eyes:** Causes irritation, seen as excess redness and swelling of the conjunctiva. Corneal injury may occur.**Skin:** No evidence of adverse effects from information available.**Inhalation:** Vapor may be irritating and cause headache, dizziness, drowsiness, fatigue, nausea, vomiting, loss of coordination, and loss of appetite. May aggravate asthma and inflammatory or pulmonary fibrosis.**Ingestion:** Moderately toxic. Causes headaches, dizziness, nausea, vomiting, mental confusion, In coordination, prostration and death. Kidney damage has been described.**Chronic:** Repeated overexposure may cause injury to bone marrow and blood cells, kidney, liver, and testes.

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:** Seek medical attention immediately.

Section 5: Fire Fighting Measures

Auto ignition Temperature: N/e**Flash Point:** 44°C**LEL / UEL:** N/e**Extinguishing Media:** Use water spray, dry chemical, or chemical foam.**General Information:** Will burn if involved in a fire. Containers may explode in the heat of a fire. Highly flammable vapors are heavier than air and may accumulate in low areas. 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 gather and store in sealed container. Wash spill area with soap and water.

Section 7: Handling and Storage

Handling: Avoid skin contact. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame.

Storage: Product is temperature sensitive. Keep above 10C. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area, away from incompatible substances.

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. Protective gloves should be butyl rubber. Wear appropriate protective gloves and clothing to prevent skin contact. Use a NIOSH approved respirator when necessary.

Section 9: Physical and Chemical Properties

Physical State:	Liquid	Odor: Solvent	Solubility: 100%	Evaporation Rate: N/a
Boiling Point: N/a		Specific Gravity: N/a	Vapor Pressure: N/a	Vapor Density: N/e pH: N/a

Section 10: Stability and Reactivity

Stability: Stable at normal temperatures and pressures.

Conditions to avoid: Temperatures over 40C, ignition sources, and incompatible materials.

Incompatibilities: Strong oxidizing agents

Polymerization: Will not occur.

Decomposition: Carbon oxides

Section 11: Toxicological Information

Sensitization: (effects of repeated exposure) Not known to.

Carcinogenicity: (risk of cancer) The ingredients of this product are not classified as being carcinogenic by ACGIH (American Conference of Governmental industrial Hygienists) or IARC (International Agency for Research on Cancer), not regulated as carcinogens by OSHA (Occupational Safety and Health Administration), and not listed as carcinogens by NTP (National Toxicology Program)

Teratogenicity: (risk of malformation in an unborn fetus) Increased birth defects, fetal lethality, and delayed fetal development have been observed in female animals exposed to air concentrations of 50 ppm.

Reproductive Toxicity: (risk of sterility) Known to cause damage to male reproductive organs.

Mutagenicity: (risk of heritable genetic effects) Not known to.

Lethal Exposure Concentrations: **Ingestion** 1250 mg/kg (LD50): (guinea pig) **Inhalation** N/e (LC50): **Skin (LD50):** 5250 mg/kg (rabbit)

Section 12: Ecological Information

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



Information: environmental damage.

Environmental Impact Data: (percentage by weight)

CFC: 0

HFC: 0

Cl.Solv: 0

VOC: 0

HCFC: 0

ODP: 0

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:

Consumer Commodity, ORM-D. Keep from freezing. Maintain at temperatures above 10°C.

Air:

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

Sea:

UN# 1189 class 3 Shipper must be trained and certified Refer to IMDG regulations.

Section 15: Regulatory Information

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.

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

This product contains 2-methoxyethyl acetate CAS# 110-49-6 (93-100%, a toxic chemical subject to the reporting requirements.

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

This product contains 2-methoxyethyl acetate CAS# 110-49-6 (93-100%) a toxic chemical subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

TSCA (Toxic Substances Control Act of 1976, USA)

All substances are TSCA listed.

CAA (Clean Air Act, USA)

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

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

This product does not contain any chemicals listed as hazardous air pollutants.

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

This product contains ethylene glycol monomethyl ether acetate (cas# 110-49-6), known to the state of California to cause birth defects, and other reproductive harm.

Health Canada

Labeling and containers used in this product are listed in compliance with Consumer Chemicals and Container regulations.

Environment Canada

This product does not contain any ozone depleting substances.

Industry and Science Canada

Labeling, product identity, net quantity declaration, minimum printing type size heights, and packaging of this product is in compliance with the Consumer Packaging and Labeling Act and Regulations. This product is not slack filled in accordance to chapter 4 prohibitions.

RoHS (The restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2004).

This product is RoHS compliant.

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.