

MATERIAL SAFETY DATA SHEET

Trade Name: M-1 Remover

EMERGENCY TELEPHONE NUMBERS: 800-424-9300 CHEMTREC (transportation & spills)
800-900-4044 Poison Control (human health)
800-966-6175 Jomaps, Inc.

PRODUCT HAZARD RATING: Health = 2, Flammability = 0, Reactivity = 0
(Rating Legend: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Insignificant)

Jomaps, Inc.
6500 Industrial Way
Alpharetta, GA 30004
770-442-8808

Date prepared: September 17, 2004
Contact Person: Phil Connell

DOT PROPER SHIPPING NAME: CONSUMER COMMODITY, ORM-D
DOT HAZARD CLASS: Combustible Liquid NFPA #2-1-0
DOT I.D. NUMBER: UN 1142
HAZARDOUS SUBSTANCE: N/A

SECTION II – HAZARDOUS INGREDIENT DATA

Meta Xylene (cas# 108-38-3) OSHA TLV 100 PPM (435/mg/m) 8 hr. TWA
Ethyl Benzene (cas# 100-41-4) NIOSA ceiling limit – 200 ppm/10 min. }85%
Ortho Xylene (cas# 95-47-6) ACGIH adds skin notation to TLV
Para Xylene (Cas# 95-47-6)
Methylene Chloride – 500 PPM (8 hr. TWA) = PEL = OSHA permissible } 15% exposure limits

SECTION III – PHYSICAL DATA

Boiling Point (F): >100° F
Vapor Pressure (mm Hg.): @ 25 C: >8.5, <430
Solubility in Water: Nil
Evaporation Rate: .37
Appearance and Odor: Colorless, slight petroleum odor.

Specific Gravity (H₂O=1): 0.937
Vapor Density (Air = 1): >2.93
Percent, Volatile by Volume (%): 100%

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: (Method used) TCC>100° F
Flammable Limits: UPPER: 25 LOWER: 14
Extinguishing Media: Foam, dry chemical, Halon CO
Special Fire Fighting Procedures: Class IC flammable liquid, Vapors can readily form explosive mixtures with air.
Unusual Fire and Explosion Hazards: Keep away from heat, sources of ignition, oxidizers.

SECTION V – HEALTH HAZARD DATA

Acute Oral: LD 50 = 2000 – 4000 mg/kg (Rat)
Acute Dermal: LD LO = 2700 mg/kg (Rabbit)
Acute Inhalation: LC 50 = 2445 ppm (Rat)

A 1985 NTP, 2 yr. animal inhalation study report states that there is "clear evidence of carcinogenicity" in mice and female rats. Experience in industry has shown no increased incidences of cancer of any type in the worker population. IARC lists this product as having inadequate evidence in humans and inadequate evidence in animals to evaluate carcinogenicity, (Group 3).

Medical limitations: Persons with angina or heart disease should not be exposed to this product.

ROUTES OF EXPOSURE:

Inhalation: Excessive inhalation may produce symptoms of central nervous system depression, ranging from light-headedness, nausea and vomiting to unconsciousness and death.

Skin Contact: Mildly irritating to skin. Skin contact may produce a burning sensation. Prolonged or repeated contact may cause skin to become reddened, rough and dry due to the removal of natural oils and may result in dermatitis.

Skin Absorption: This product may be absorbed through the skin, although not expected to produce toxicity by this route.

Eye Contact: An irritant to the eyes, causing pain, lacrimation, and general inflammation.

Ingestion: Harmful if swallowed. May cause irritation of the gastrointestinal tract with vomiting. If vomiting results in aspiration, chemical pneumonia could follow. Absorption through the gastrointestinal tract may produce symptoms of central nervous system depression ranging from light-headedness to unconsciousness.

EFFECTS OF OVEREXPOSURE:

Acute: Excessive inhalation or ingestion may produce symptoms of central nervous system depression ranging from light-headedness, to unconsciousness and death. Exposure of the eyes and skin may produce irritation.

Chronic: Can cause headache, mental confusion, depression, fatigue, loss of appetite, nausea, vomiting, cough, loss of sense of balance, and visual disturbances. Prolonged or repeated skin contact may cause dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

Skin: Flush skin thoroughly with soap and water. If skin becomes dry, apply moisturizing cream or petroleum jelly. Remove contaminated clothing and footwear which cannot be decontaminated. Seek medical attention if needed.

Eyes: Object is to flush material out then seek medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire eye surface. Contact physician if needed.

Inhalation: If respiratory discomfort or irritation occurs, move to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek medical attention immediately.

Ingestion: If swallowed, do not induce vomiting. Contact physician at once.

SECTION VI – REACTIVITY DATA

Stability: Stable under normal conditions.

Conditions to avoid: Avoid heat, sparks, open flame, fire.

Incompatibilities: Avoid contacting this product with pure oxygen, alkali metals, open flames and electrical arcs.

Hazardous Decomposition: At high temperature, this product decomposes to give off hydrogen chloride vapor and small quantities of other toxic irritating vapors such as phosgene.

Hazardous Polymerization: Material is not known to polymerize.

SECTION VII – SPILL OR LEAK PROCEDURES

If material is released or spilled: Soak up with absorbent material. Do not allow to enter sewers or drains.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

SECTION VIII – CONTROL MEASURES

Respiratory Protection: Use organic cartridge respirator with full face piece for exposure over TLV to 1000 ppm up.

Ventilation: Local exhaust is usually sufficient, if not available, use mechanical exhaust.

Protective Gloves: Impervious gloves (such as rubber, neoprene, polyethylene) should be used when handling the product.

Eye Protection: Wear goggles and plastic face shield if danger of splash hazard.

Protective Clothing: Wear appropriate clothing to avoid skin contact.

Other Protective Equipment: Eye bath and safety bath.

SECTION IX – SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Store product in cool, dry, well ventilated area. Keep container closed when not in use. Avoid contact with skin and eyes. Do not ingest. Avoid breathing mist.

Disclaimer of Liability: The information provided in this MSDS is believed to be reliable and accurate. However, the information is provided without any warranty or guarantee, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of the use of this information. The buyer assumes all responsibility of using and handling the product in accordance with the federal, state and local regulations.