Material Safety Data Sheet

VMR (Vandal Mark Remover)

Momar Australia Pty Ltd
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U.N. Number: 2810
Class: 3 Flammable Liquid
Hazchem: 2Z
Packaging Group: 111
EPG: 3A1
Poisons No.: S6

HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

SECTION 1 - IDENTITY
Common Name: (used on label) VMR (Vandal Mark Remover)
Chemical Name: Not applicable
Chemical Family: Solvent / surfactant blend
Formula: Solvent mixture - vandal mark remover

SECTION 2 - HAZARDOUS INGREDIENTS
Principal Hazardous Component(s)/CAS No. % by Weight Threshold Limit Value (units)
1. Xylene 1330-20-7 50% (ACGIH-TWA) 435mg/m3
   (LD50 oral rats = 4300 mg/kg, LD50 dermal rats = 500mg/kgH MOD, LC50 inhalation rats = 6350ppm/4m)
2. Isopropyl Alcohol 78-83-1 20 (ACGIH-TWA) 980mg/m3
   (LD50 oral rats = 4000mg/kg, LD50 dermal rats = 16400mg/kg, LC50 inhalation rats = 1600ppm)
3. Methylethylketone 79-93-2 >5 (ACGIH-TWA) 590mg/m3
   (LD50 oral rats = 3400mg/kg, LD50 dermal rats = 402mg/24H MLD, LC50 inhalation rats = 2000ppm/4H)
4. Perchloroethylene 127-18-4 >5 (ACGIH-TWA) 335mg/m3
   (LD50 oral rats = 4000mg/kg, LD50 dermal rats = 500mg/24 SEV, LC50 inhalation rats = 4000ppm/4H)

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)
Boiling Point: 100-300°F (°C) Specific Gravity: (H2O=1) 0.890 Vapor Pressure: (mm Hg) 70 psig
Solubility in Water: Negligible Reactivity in Water: None
Appearance and Odour: Clear colourless liquid - sweet ethereal odour
Flash 650° Flammable Limits Lower Upper Extinguisher Water spray, CO2, Auto Ignition
Point (T.C.C.) In Air by Volume 4.5 10.5 Media dry chemical, alcohol foam Temp.: 600°F
Special Fire Fighting Procedures: Water spray may be ineffective. Use water spray to keep fire exposed container cool and to flush spills away from exposures. Fire fighters wear self contained breathing apparatus with full face piece in pressure demand or other positive pressure mode.
Unusual Fire and Explosion Hazards: Aerosol container pressurised with flammable propellant. Do not expose containers to temperatures above 130°F or containers may explode.
SECTION 4 - PHYSICAL HAZARDS

Stability: Unstable, to Avoid: Heat, spark, open flame, welding areas.

Incompatibility: Aluminium, possibly sodium, magnesium and potassium, caustics, amines, ammonia, halogens, acids, strong oxidants.

Hazardous Decomposition Products: Thermal degradation can result in emulsion of CO, CO2, HCL and small amounts of phosgene and chloring.

Hazardous Polymerization: Will Not Occur to Avoid: NONE

SECTION 5 - HEALTH HAZARDS

Threshold Limit Value: 460mg/m³ (estimated)

Signs & Symptoms of Exposure:
1. Acute Oversposure: Causes eye irritation. Ingestion may cause nausea, vomiting and diarrhea. Excessive inhalation may cause dizziness, headache, anesthetic effect.
2. Chronic Overexposure: Respiratory irritation with resultant kidney and liver damage, nausea, possible unconsciousness and even death under severe exposure. Prolonged or repeated frequent contact with skin by removing natural oils may cause dermatitis.

Medical Conditions Generally Aggravated by Exposure: None known

OSHA Permissible Exposure Limit: not est.
ACGIH Threshold Limit Value: not est.
Other Exposure Limit Used: 300mg/m³ (estimated)

EMERGENCY AND FIRST AID PROCEDURES

1. Inhalation: Remove from over exposure to fresh air. If breathing is difficult or discomfort occurs, obtain medical attention.
2. Eyes: Flush immediately with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.
3. Skin: Wash with soap and water. If irritation persists get medical attention.
4. Ingestion: Administer 2-4 oz of vegetable or olive oil and 1-2 oz activated charcoal. Do not induce vomiting as gastric aspiration may occur. Get immediate medical attention.

SECTION 6 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH approved respirator above TLV.

Ventilation: sufficient to keep below TLV
Local Exhaust: Adequate
Mechanical Ventilation: (General) Mechanical
Special Eye Protection: None
Other: None

Protective Gloves: Not required
Other Protective: Not required

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be taken in Handling and Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F.

Other Precautions: None

Steps to be taken in case material is Released or Spilled: If spilled absorb on mineral clay absorbent material.

Waste Disposal Methods: Aerosol cans, when vented at atmospheric pressure through normal use, pose no hazard.