

MATERIAL SAFETY DATA SHEET

PRO-MA MBL3 SPRAY

COMPANY DETAILS:

PRO-MA SYSTEMS (CANADA) INC
#120, 6330-12 ST SE
CALGARY, AB T2H 2X2
TELEPHONE (403) 258-2115 FAX (403) 252-3161

EMERGENCY TELEPHONE:

1-613-996-6666
Use in case of chemical emergency only.

IDENTIFICATION

PRO-MA Performance MBL Spray, Metal Based Lubricant Product Code 86,004, 86029
UN Number: None Allocated
Dangerous Goods Class: None Allocated Subsidiary Risk: None Allocated
Hazchem Code: None Allocated Poisons Schedule No: S 6
Packaging Group: None Allocated Pack Size: 250 ml and 4 litre plastic bottles

USE

Multi-purpose metal based penetrating lubricating spray. This is not a de-watering fluid.

PHYSICAL DESCRIPTION/PROPERTIES

Gray brown low viscosity liquid, having a petroleum distillate odor.
Boiling Point 157-260°C Specific Gravity: Water = 1 1.06 @ 15.5°C (60°F)
Vapor Pressure: 2 mm Hg Flash Point: Pensky Martens 49°C (120°)
Vapor Density: (Air=1) 5.5 Flammable Limits: LEL: 1.0 UEL: 6.0%
Solubility in water: Insoluble

OTHER PROPERTIES

Shock Sensitivity: Not relevant Corrosiveness: Not relevant
Oxidizing Properties Incompatible with strong oxidizing acids.
Reactivity: Stable. Hazardous polymerization will not occur. Thermal decomposition in the presence of air may yield carbon monoxide and metallic oxides.
Evaporative Rate: (Butyl Acetate = 1) 0.1 pH: Not relevant
Solubility: Soluble in gasoline, and similar organic solvents.
Percent volatiles: Non-Volatile Bulk Density: 1.06 Specific Gravity @ 15.5°C

INGREDIENTS

CHEMICAL ENTITY Solvent - An E.P. Gear Oil Base, proprietary additives, detergents and surfactants, copper and lead powders.

PROPORTION: Solvent 30 - 60% Additives 10-30 %
Base Metal Copper, Lead 10-30%

HEALTH HAZARD INFORMATION

U.S.A. ACGIH TLV's Lead 0.015 mg/M³ air, Copper 0.025 mg/M³ air. Rat Oral LD 50 10 gm/kg.
Petroleum Distillate 500 ppm, Proprietary additives including detergents and surfactants 400 ppm

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ACUTE: Respiratory deficiency.

EYES: Can cause severe irritation, redness, tearing, blurred vision.

SKIN: Prolonged contact can cause moderate irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

SWALLOWING: Can cause gastro-intestinal irritation, nausea, vomiting, diarrhea, aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

FIRST AID; IF ON SKIN: Thoroughly wash affected area with soap and water. Remove contaminated clothing & launder before re-use.

IF IN EYES - Flush with large amount of water, lifting lids occasionally. Get medical attention.

PRO-MA MBL3 SPRAY**M.S.D.S.**

IF BREATHED - If affected, remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet and get medical attention.

ADVICE TO DOCTOR: Product contains Petroleum base stock, Surfactants, Detergents, copper and lead powders. Show this MSDS to Doctor. Treat for lead and petroleum ingestion. Single dose oral toxicity is moderate, with an oral LD 50 for rats of 10g/kg.

PRECAUTIONS FOR USE**Exposure Standards**

THRESHOLD LIMIT VALUE: U.S.A. ACGIH TLV Petroleum Distillate 500 ppm, Proprietary additives including detergents and surfactants 400 ppm, Lead 0.015 mg/M³ air, Copper 0.025 mg/M³ air.

Engineering Controls

Use in a well ventilated area, and ensure ventilation is adequate to maintain concentration below exposure standards.

Personal Protection

RESPIRATOR: Not required under normal use. The use of a respirator depends on vapor concentration above the time-weighted TLV. If the TLV for the product, or any component is exceeded, an approved self-contained breathing apparatus with a full face piece operated in pressure-demand is advised.

PROTECTIVE GLOVES: Use Neoprene, Buna-N, or other resistant gloves.

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations.

PROTECTIVE CLOTHING: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Flammability

FIRE HAZARDS: Vapors are heavier than air, and may travel along the ground or be moved by ventilation, and ignited by heat, pilot light, other flames and ignition sources at locations distant from the material handling point. Never use welding or cutting torch on or near drum (even empty), because product (even just residue) can ignite explosively.

VENTILATION: Provide sufficient local exhaust, or mechanical ventilation to maintain exposure below TLV's.

HAZCHEM CODE: None Allocated

SAFE HANDLING INFORMATION

LOCATION: Store under cover and away from sunlight.

STORAGE INCOMPATIBILITIES: Store away from strong oxidizing acids.

STORAGE AND HANDLING: Keep container cool, dry and away from sources of ignition. Should product splash on a person, remove saturated clothing, and wash contaminated area. Launder clothing before re-use.

VENTILATION: Provide sufficient mechanical and / or local ventilation to maintain below TLV's

CONTAINERS / PACKAGES: Containers are PVC.

DANGEROUS GOODS CLASSIFICATION: This product is not classified as Dangerous Goods under the Australian Code for the transportation of Dangerous Goods by Road and Rail.

SPILLS AND DISPOSAL

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL - Absorb liquid on paper, vermiculite, or other absorbent material and transfer to hood.

LARGE SPILL - Eliminate all ignition sources (flares, electrical sparks, flames and pilot lights). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source: dike area, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay earth, floor absorbent or other absorbent material, and shovel into containers.

WASTE DISPOSAL METHOD:

SMALL SPILL: Allow volatile portion to evaporate in hood. Allow sufficient time for vapor to completely clear hood duct work. Destroy remaining material by burning in an iron pan.

LARGE SPILL - Destroy by liquid incineration. Material collected on absorbent material may be deposited in a toxic substance landfill. Dispose of product in accordance with local Council, State and Federal Regulations.

OTHER PRECAUTIONS: Containers of this product may be hazardous even when emptied. Since emptied containers retain product residues (vapor, liquid and/or solid) all hazardous precautions in this data sheet must be observed.

PRO-MA PERFORMANCE MBL SPRAY**M.S.D.S.****FIRE/EXPLOSION HAZARD**

FIRE HAZARDS: N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air, and may travel along the ground or be moved by ventilation, and ignited by heat, pilot light, other flames and ignition sources at locations distant from the material handling point. Never use welding or cutting torch on or near drum (even empty), because product (even just residue) can ignite explosively.

REACTIVITY HAZARD - Avoid strong oxidizing acids.

FIRE FIGHTING RECOMMENDATIONS - EXTINGUISHING MEDIA:

Foam, CO₂, or dry chemical. Water may be unsuitable as an extinguishing media as it can cause dangerous frothing and endanger the lives of fire fighters. However it is helpful in keeping adjacent containers cool. May produce toxic fumes of Carbon Monoxide and Metallic Oxides if burned in a confined space.

PROTECTIVE CLOTHING: Self-contained breathing apparatus with a full face piece operated in a pressure demand or other pressure positive mode.

OTHER INFORMATION

TOXICITY: Single dose oral toxicity is moderate with an oral LD 50 for rates of 10g/kg. May produce toxic fumes of Carbon Monoxide and metallic oxides if burned in a confined space.

CARCINOGENIC: Does not contain any ingredients or combustion residues currently known to be carcinogenic.

BIODEGRADABILITY: Not biodegradable. Can be broken down by detergents and surfactants used for petroleum product spills.