

MATERIAL SAFETY DATA SHEET

PRO-MA MBL8 CONCENTRATED OIL ADDITIVE

COMPANY DETAILS:

PRO-MA SYSTEMS (CANADA) INC
#120, 6330-12 ST SE
CALGARY, AB T2H 2X2
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EMERGENCY TELEPHONE:

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

IDENTIFICATION

PRO-MA Performance MBL Concentrate Metal Based Lubricant Product Code 84,008, 84024
UN Number: None Allocated
Dangerous Goods Class: None Allocated Subsidiary Risk: None Allocated
Hazchem Code: None Allocated Poisons Schedule No: None Allocated
Packaging Group: None Allocated Pack Size: 250 ml. and 4 Litres

USE

Additive to lubricating oils for engines, manual (but not automatic) transmissions, transfer cases, conventional differentials and hydraulic systems. Add specified quantity to lubricant at operating temperature, and run for at least 15 minutes.

PHYSICAL DESCRIPTION/PROPERTIES

Dark colored viscous liquid, having an oily odour.
Boiling Point: Above 210°C (410°F) Specific Gravity: Water = 1 1.1 @ 15.5°C (60°F)
Vapour Pressure: Non-volatile Flash Point: C.O.C. 216°C (420°)
Vapour Density: Non-volatile Flammable Limits: No data available
Solubility in water: Insoluble Viscosity SUS @ 38° (100°F) 64.5

OTHER PROPERTIES

Shock Sensitivity: Not relevant Corrosiveness: Not relevant
Oxidizing Properties: Incompatible with strong oxidizing agents.
Reactivity: Stable. Hazardous polymerization will not occur. Thermal decomposition in the presence of air
may yield carbon monoxide and metallic oxides.
Evaporative Rate: Non-volatile pH: Not relevant
Solubility: Soluble in gasoline, and similar organic solvents.
Percent volatiles: Non-volatile Bulk Density: 1.1 Specific Gravity @ 15.5°C (60°F)

INGREDIENTS

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

PROPORTION: Solvents 30 - 60% Additives 10 - 30 %
Base Metal Lead, Zinc, Copper 10 - 30% Alloys Zinc, Copper, Lead 10 - 30%

HEALTH HAZARD INFORMATION

U.S.A. ACGIH (for metals only) 0.015 mg/M³ air.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

ACUTE: Dizziness, muscle weakness, abdominal pain.

EYES: Treat as for oil contamination.

SKIN: Wash contaminated surfaces with soap and water.

SWALLOWING: DO NOT INDUCE VOMITING. Seek immediate medical advice / or attention.

ADVICE TO DOCTOR: Contains copper and lead powder and petroleum base stock. Show this MSDS to Doctor.

PRO-MA MBL CONCENTRATE M.S.D.S.

PRECAUTIONS FOR USE

Exposure Standards

THRESHOLD LIMIT VALUE: U.S.A. ACGIH TLV 0.15 mg / M³ air. Exposure limits not known.

Engineering Controls

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

Personal Protection

RESPIRATOR: The use of a respirator depends on vapor concentration above the time-weighted TLV. Use half-face filter respirator suitable for organic vapors.

PROTECTIVE GLOVES: The use of PVC gloves is advised to prevent skin irritation in sensitive individuals.

EYE PROTECTION: Use safety glasses or face shield to safeguard against potential eye contact.

Flammability

FIRE HAZARDS: Keep away from flames, and material heated above 232°C (450°F).

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 High Density Poly Ethylene.

DANGEROUS GOODS CLASSIFICATION / SUBSIDIARY RISK: 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:

Clean up spills as soon as possible. Use absorbent material for small spills. Place contaminated material in disposable containers, and bury in an approved dumping area..

WASTE DISPOSAL METHOD: Dispose of product in accordance with local Council, State and Federal Regulations.

FIRE/EXPLOSION HAZARD

FIRE HAZARDS: Keep away from flames, and material heated above 232°C (450°F). Hazardous polymerization will not occur. Thermal decomposition in the presence of air may yield carbon monoxide and metallic oxides.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

REACTIVITY HAZARD - Avoid strong oxidizing Acids.

FIRE FIGHTING RECOMMENDATIONS - EXTINGUISHING MEDIA: Foam, CO₂, or dry chemical or water spray. Water may be unsuitable as an extinguishing media, but helpful in keeping adjacent containers cool. May produce toxic fumes of Carbon Monoxide if burned in a confined space.

PROTECTIVE CLOTHING: Self-contained breathing apparatus is recommended for fire fighters in an enclosed or confined space.

OTHER INFORMATION

TOXICITY: 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.

THESE MATERIAL SAFETY DATA SHEETS MEET THE REQUIRED WHMIS STANDARDS ACCORDING TO CONTROL PRODUCT REGULATIONS SCHEDULE SOR/88-66