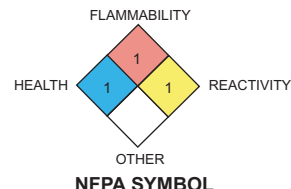


Health	1
Flammability	1
Reactivity	1
PPE	B

# MATERIAL SAFETY DATA SHEET



## MP-50™

### HMIS SYMBOL

### SECTION 1 - PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: **MP-50™**  
 Chemical Family: Mixture  
 Use: Equipment lubrication as an anti-seize.  
 Manufacturer/Supplier: Jet-Lube of Canada Ltd.  
 3820 - 97 Street  
 Edmonton, Alberta  
 Canada T6E 5S8

Phone: (780) 463-7441 Fax: (780) 463-7454  
 CCOHS: 1-800-263-8466 Emergency: (713) 674-7617

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	Molybdenum Disulphide
CAS No	1317-33-5
Wt. %	40 - 60
OSHA PEL	15 mg/m <sup>3</sup> , as Mo
ACGIH TLV	10 mg/m <sup>3</sup> , as Mo
LC50	N/A
LD50	>6 g/kg (oral, rat)
Other	N/A

### SECTION 3 - HAZARDS IDENTIFICATION

Route of Entry: Eyes, ingestion, inhalation, skin  
 Eyes: Not irritating to slight transient irritation to eyes.  
 Inhalation: Viscous nature may block breathing passages.  
 Ingestion: May cause diarrhea if ingested.  
 Skin: Not irritating to slight transient irritation to skin. May cause possible rash for persons with hypersensitivity.

### SECTION 4 - FIRST AID MEASURES

Eyes: Flush with water until all residual material is gone. If irritation persists, seek medical help.  
 Inhalation: Clear air passage. If respiratory difficulty continues, seek medical help.  
 Ingestion: Do not induce vomiting. Wash out mouth. Contact a physician immediately.  
 Skin: Remove by wiping or with a waterless hand cleaner, followed by washing with soap and water.

### SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Nil at ambient temperature.  
 Extinguishing Media: Foam, dry chemical, halon, carbon dioxide, sand, earth or water mist.  
 Flash Point (COC): >221°C (430°F)  
 Explosive Properties: LEL - 0.9% UEL - 7%  
 Autoignition Temperature: >260°C (500°F)  
 Hazardous Combustion Products: Oxides of carbon, smoke and irritating vapors as products of incomplete combustion.  
 Protective Equipment: Self-contained breathing apparatus.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Scoop up excess, then wipe down the affected area and pick up residue with diatomaceous earth to avoid a walking hazard.  
 Environmental Precautions: Do not allow to enter drains.

### SECTION 7 - HANDLING AND STORAGE

Handling Procedures: No special precautions necessary. Do not pressurize, cut, heat or weld empty containers. Store in a cool, well ventilated place.  
 Storage Requirements: If user's operation generates vapors or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make up air should always be supplied to balance air removed by exhaust ventilation. Ensure eyewash station and safety shower are close to work station.  
 Engineering Controls:

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection Equipment (PPE's)  
 Respiratory Protection: None required.  
 Hand Protection: Protective gloves for hypersensitive persons.  
 Eye Protection: Protective glasses if applied to moving parts.  
 Body Protection: Protective overalls.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Paste  
 Odour Threshold: Not Determined  
 Vapor Pressure: <0.01 kPa  
 Boiling Point: <316°C (600°F)  
 pH: Neutral  
 Density (Typical): 1.42 kg/L  
 Evaporation Rate (Butyl Acetate = 1.0): <0.01  
 Odour: Light Petroleum  
 Specific Gravity: 1.42 (Typical)  
 Vapor Density: Not Determined  
 Freezing Point: Not Determined  
 Melting Point: Not Determined

### SECTION 10 - STABILITY AND REACTIVITY

Stability: Chemically stable under normal conditions. No photoreactive agents.  
 Conditions to Avoid: Powerful sources of ignition, extreme temperatures.  
 Materials to Avoid: Strong acids and oxidizing agents.  
 Hazardous Decomposition Products: May release CO<sub>x</sub>, smoke and irritating vapors when heated to decomposition.

### SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure Limit of Material: See Section 2  
 LC50 of Ingredients, Species and Routes: See Section 2  
 LD50 of Ingredients, Species and Routes: See Section 2  
 Teratogenicity, Embryotoxicity and/or Fetotoxicity: Not Available  
 Mutagenicity: Not Available  
 Effects of Long-Term (Chronic) Exposure: Long term dermal application may produce possible skin irritation. Elevated temperatures or mechanical action may form vapors or fumes. Inhalation of oil mists or vapors from hot oil may cause irritation of the upper respiratory tract.  
 Carcinogen NTP: No IARC: No OSHA: No

### SECTION 12 - ECOLOGICAL INFORMATION

Possible Effects: May generate oil fractions that could act as a marine pollutant in extreme cases, but is highly unlikely.  
 Behavior: Relatively well behaved. Bioaccumulation potential nil.  
 Environmental Fate: Highly unlikely to cause widespread contamination. Non-toxic to land or marine organisms.

### SECTION 13 - DISPOSAL CONSIDERATIONS

Consult federal, provincial and local regulations for disposal of petroleum products.

### SECTION 14 - TRANSPORT INFORMATION

TDG (Canada): The mixture is not specifically listed in the Canadian Transportation of Dangerous Goods regulations. Mixture is not regulated.  
 Shipping Name: N/A  
 UN No.: N/A  
 Packing Group: N/A  
 Classification: N/A  
 Labelling Requirements: N/A  
 Placard Requirements: N/A

### SECTION 15 - REGULATORY INFORMATION

WHMIS: Not Regulated  
 DSL: All components listed.  
 CPR Compliance: This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations. The MSDS contains all of the information required by these regulations.

### SECTION 16 - OTHER INFORMATION

CPR - Controlled Product Regulations  
 DSL - Domestic Substance List

As of issue date, the information contained herein is accurate and reliable to the best of Jet-Lube of Canada Ltd.'s knowledge. Jet-Lube of Canada Ltd. does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the users' responsibility to satisfy themselves that the information offered for their consideration is suitable for their particular use.

Prepared By: **Jet-Lube of Canada Ltd. - Laboratory**  
 Last Date of Revision: **August 3, 2004**