

## MATERIAL SAFETY DATA SHEET

### SECTION I – PRODUCT IDENTIFICATION

<b>Product Name:</b>	PM PLUS Hydraulic Oil Concentrate	<u>SUPPLIER'S NAME &amp; ADDRESS</u> Comlube Technology Inc. 110 Scotia Court, Suite #34 Whitby, Ontario L1N 8Y7 Tel: (905) 438-8418
<b>Chemical Formula:</b>	Complex mixture	
<b>Product Family:</b>	Lubricant	
<b>Product Use:</b>	Standard Oil Fortifier	

### SECTION II – HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>% (weight)</u>	<u>LC<sub>50</sub> ppm (Inhalation rat)</u>	<u>LD<sub>50</sub> mg/kg (Oral rat)</u>
Alkanes, chemically Modified	68410-76-9	30-60	Not established	7 g/kg

### SECTION III – PHYSICAL DATA

<b>Physical state, odour and appearance:</b> All are clear amber liquids with mild odours.			
<b>Odour Threshold:</b>	Not available	<b>Freezing point:</b>	Not available
<b>Coefficient water/oil Distribution:</b>	Not available	<b>Vapour pressure (mm Hg):</b>	Not available
<b>PH:</b>	Not applicable	<b>Vapour density (Air=1):</b>	Not available
<b>Evaporation rate (nBuAc):</b>	Not available	<b>Solubility in water:</b>	Insoluble
<b>Volatiles, % by weight:</b>	Not available	<b>Volatiles, % by volume:</b>	Not available
<b>Specific gravity:</b>	1.19	<b>Boiling point:</b>	121.0°C

### SECTION IV – FIRE AND EXPLOSION DATA

**Conditions of flammability:** Not flammable.

**If yes, under which conditions:** Must be excessively heated before ignition will occur.

**Means of extinction:** Carbon dioxide, dry chemical, foam.

**Special procedures:** Firefighters should wear self-contained breathing apparatus and protective clothing.

**Sensitivity of mechanical impact/static discharge:** Not sensitive to static discharge. Not sensitive to impact under normal handling conditions.

**Flash point (Method):** 190°C All tests were done using Cleveland Open Cup method.

**Upper flammable limit (% by volume):** Not applicable.

**Lower flammable limit (% by volume):** Not applicable.

**Auto-ignition temperature:** Not available.

**Hazardous combustion products:** Oxides of carbon.

### SECTION V – REACTIVITY DATA

**Stability:** Product is stable. Hazardous polymerization will not occur.

**Incompatible materials:** Strong oxidizers.

**Conditions of reactivity:** Excessive heat, strong oxidizers, acids and bases.

**Hazardous decomposition products:** Oxides of carbon.

### SECTION VI – TOXICOLOGICAL PROPERTIES

**LD<sub>50</sub> of material:** See Section II                      **LC<sub>50</sub> of material:** See Section II

**Routes of entry:**

- Skin contact:** Possible irritation.
- Skin absorption:** Low order of toxicity.
- Eye contact:** Irritation.
- Inhalation:** Vapours may cause respiratory tract irritation, nausea, headache and dizziness.
- Ingestion:** May cause nausea, vomiting, diarrhea, central nervous system depression, burning sensation. Inhalation of vomited material may cause serious lung damage.

---

---

## SECTION VI – TOXICOLOGICAL PROPERTIES CONTINUED

---

---

**Exposure limits:** 5 mg/m<sup>3</sup> for mineral oil mist.

**Effects of acute exposure:** See above.

**Effects of chronic exposure:** Conjunctivitis; tracheitis; dermatitis; narcosis.

**Irritation caused by material:** See effects of acute exposure; see routes of entry.

**Sensitization to material:** In susceptible individuals.

**Carcinogenity, reproductive effects, mutagenicity, teratogenicity, synergistic materials:** None known.

---

---

## SECTION VII – FIRST AID

---

---

**Inhalation:** Remove victim to fresh air. If victim is not breathing, begin artificial respiration. Get medical attention.

**Skin:** Wash affected area. Remove contaminated clothing. If irritation persists, consult a doctor.

**Eyes:** Flush eyes with large quantities of water for at least 15 minutes. Get medical attention.

**Ingestion:** Dilute with large quantities of water. Do not induce vomiting. Get immediate medical attention.

---

---

## SECTION VIII – PREVENTIVE MEASURES

---

---

**Spill, leak or release:** Small spills: Stop flow, contain material, collect in proper containers. Remove all sources of ignition. Provide adequate ventilation. Large spills: Prevent runoff into drains, sewers and other waterways. Wear protective equipment to protect against hazardous and dispose of per waste disposal methods. Follow instructions for small spills.

**Waste disposal:** In accordance with all municipal, provincial and federal regulations.

**Protective equipment:**

**Respiratory/type:** Wear a NIOSH approved face mask for oil mists recommended.

**Gloves/type:** Wear neoprene gloves if direct contact is likely.

**Eye/type:** Splash-proof safety goggles.

**Footwear/type:** Wear safety boots as per local regulations.

**Clothing/type:** Wear adequate protective clothes.

**Other/type:** Emergency shower and eye wash station should be in close proximity to work area.

**Engineering controls:** Local exhaust at points of emission.

**Handling procedures and equipment:** Handle and open container with care. Handle away from all sources of ignition. Avoid smoking. Keep container closed.

**Storage requirements:** Keep away from heat and flame. Keep from freezing. Store at room temperature, in a well ventilated area.

**Special shipping instructions:** Not regulated by TDG. Protect against damage.

---

---

## SECTION IX – PREPARATION INFORMATION

---

---

**Prepared by:** Comlube Technology Inc.

**Telephone:** (905) 438-8418

**Preparation date:** January 2007

**The information and data presented herein are based on tests, reports and research we believe to be accurate and reliable. The information and data are provided without warranty, guarantee or liability on our part and are therefore, provided to our customers for their own investigation, verification and consideration.**