

# MATERIAL SAFETY DATA SHEET

## SECTION I - PRODUCT IDENTIFICATION

**Product name:** PENETRANT PLUS LUBE SHIELD  
**Chemical formula:** Complex mixture  
**Product family:** Lubricant cleaner  
**Product use:** Complex lubricant

**Supplier name & address:**  
Comlube Technology Inc.  
110 Scotia Court # 34  
Whitby, Ontario, L1N 8Y7  
**Telephone #:** (905) 438-8418

## SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>%</u>	<u>LC<sub>50</sub>, ppm (Rat, inh.)</u>	<u>LD<sub>50</sub>, mg/kg (Rat, oral)</u>
Alkanes, chemically modified	68410-99-1	15-40	Not established	7 g/kg (rabbit)

## SECTION III - PHYSICAL DATA

<b>Physical state, odour and appearance:</b>	Amber liquid with pleasant fragrant odour.	<b>Specific gravity:</b>	1.1
<b>Odour threshold:</b>	Not available	<b>Vapour pressure (mm Hg):</b>	Not available
<b>Coefficient of water/oil distribution:</b>	Not available	<b>Freezing point:</b>	Not available
<b>Boiling point:</b>	280°C	<b>Vapour density (Air=1.0):</b>	Not available
<b>pH:</b>	Not applicable	<b>Solubility in water (w/w):</b>	Insoluble
<b>Evaporation rate (n-BuAc=1.0):</b>	Not available	<b>Volatiles, % by volume:</b>	Not available
<b>Volatiles, % by weight:</b>	Not available		

## SECTION IV - FIRE AND EXPLOSION DATA

**Conditions of flammability:** Not flammable under normal conditions, but may be ignited by very strong ignition sources.  
**If yes, under which conditions:** Container may overpressurize when exposed to excessive heat. Must be excessively heated before ignition will occur.  
**Means of extinction:** Water fog, carbon dioxide, dry chemical or foam.  
**Sensitivity to mechanical impact/static discharge:** Not sensitive to static discharge or impact under normal handling conditions  
**Flash point (Method):** 125°C (247°F) for complex aromatic/aliphatic mixture  
**Upper flammable limits (% by volume):** Not available  
**Lower flammable limits (% by volume):** Not available  
**Auto-ignition temperature:** 235°C (455°F) for complex aromatic/aliphatic mixture  
**Hazardous combustion products:** Oxides of carbon.

## SECTION V - REACTIVITY DATA

**Stability:** 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.

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## SECTION VI - TOXICOLOGICAL PROPERTIES

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**LD<sub>50</sub> of material:** See Section 2

**LC<sub>50</sub> of material:** See Section 2

**Routes of entry:**

**Skin contact:** Prolonged skin contact may cause irritation.

**Skin absorption:** Absorption through the skin is not likely to be a major route of entry.

**Eye contact:** Liquid splashes may irritate the eye.

**Inhalation:** Vapours may cause respiratory tract irritation, headache and drowsiness, or chemical pneumonitis.

**Ingestion:** Swallowing can cause irritation of the digestive tract, or have a laxative effect, resulting in rapid elimination.

**Exposure limits:** ACGIH-TLV: 5 mg/m<sup>3</sup> (oil mist).

**Acute effects:** See under "Routes of entry". Adverse effects are not expected under normal handling conditions.

**Chronic effects:** Prolonged skin contact may cause dermatitis.

*Carcinogenicity:* Ingredients are not listed by IARC or ACGIH.

*Teratogenicity, mutagenicity, other reproductive effects:* Not expected to cause reproductive harm.

**Sensitization to material:** Product is not known to cause allergies.

**Synergistic materials:** None known.

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## SECTION VII - FIRST AID

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**Inhalation:** Remove victim to fresh air. Allow victim to rest in a well-ventilated area. Get medical attention right away.

**Skin:** Wash affected area with soap and water. Remove contaminated clothing. If irritation persists, see a doctor.

**Eyes:** Flush eyes with large quantities of water for at least 15 minutes. Get medical attention if irritation does not go away immediately.

**Ingestion:** Do not induce vomiting. If vomiting occurs naturally, lean victim forward to prevent aspiration of material. Get immediate medical attention.

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## SECTION VIII - PREVENTIVE MEASURES

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**Spill, leak or release:** Small spills: Remove sources of ignition. Provide adequate ventilation. Stop flow, and absorb with inert absorbent. Collect waste in steel containers. Large spills: Dike to prevent runoff into drains, sewers and other waterways. Pump up or collect material for recycling or disposal. All spills: Wear protective equipment (see below). Dispose of in accordance with appropriate regulations.

**Waste disposal:** Dispose of waste in accordance with all local, provincial and federal regulations.

**Protective equipment:**

**Respiratory/type:** Wear a NIOSH-approved face-mask respirator with organic vapour/oil mist cartridge if air-borne levels exceed exposure limits.

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

**Eye/type:** Wear splash-proof safety goggles.

**Footwear/type:** Wear safety boots as per health and safety regulations

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

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

**Handling procedures and equipment:** Handle and open container with care. Keep away from all ignition sources. Do not smoke, eat or drink while handling. Keep container closed when not in use.

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

**Special shipping instructions:** Not regulated by Transportation of Dangerous Goods Regulations. Protect container against damage.

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## SECTION IX - PREPARATION INFORMATION

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**Prepared by:** Comlube Technology Inc.

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

**Preparation date:** January ,2007

The information and data presented herein are based on test, 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.