

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>LC₅₀, ppm (Rat, ihl.)</u> | <u>LD₅₀, mg/kg (Rat, oral)</u> |
|------------------------------|--------------|----------|---|---|
| Alkanes, chemically modified | 68410-99-1 | 15-40 | Not established | 7 g/kg (rabbit) |

SECTION III - PHYSICAL DATA

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

SECTION VI - TOXICOLOGICAL PROPERTIES

LD₅₀ of material: See Section 2

LC₅₀ 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/m³ (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.

SECTION VII - FIRST AID

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.

SECTION VIII - PREVENTIVE MEASURES

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.

SECTION IX - PREPARATION INFORMATION

Prepared by: Comlube Technology Inc.

Telephone #: (905) 438-8418

Preparation date: January ,2010

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