

## MATERIAL SAFETY DATA SHEET

### SECTION I - PRODUCT IDENTIFICATION

**Product name:** DEEP LUBE

**Chemical family:** Mixture.

**Product use/class:** Used as a penetrant, and to lubricate and protect metal surfaces from corrosion

**Supplier's name and address:**

**DEEP LUBE OF CANADA**

7 Hiscott St.

St. Catharines, ON

L2R 1C7

Telephone: 905-704-1158

**Manufacturer's name and address:**

Refer to Supplier.

**Emergency Tel. #:** 905-651-1420

**WHMIS CLASS:** B2, D2B

### SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>wt.%</u>	<u>LC<sub>50</sub> / 4 Hrs (Rat, inh.)</u>	<u>LD<sub>50</sub> mg/kg</u>	
				<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Aliphatic petroleum oil	8052-41-3	30 - 60	> 5500 mg/m <sup>3</sup>	> 5000	> 3000
Petroleum based oil	64742-65-0	30 - 60	N/Av	> 5000	> 5000

### SECTION III - PHYSICAL DATA

**Physical State, odour and appearance:** Light amber liquid, lemon odour.

**Coefficient of water/oil distribution:** N/Av

**Specific gravity:** 0.787

**Vapour pressure (PSI @ 70°C):** 60.0.

**Melting / Freezing point:** N/Av

**Vapour density (Air = 1):** >1

**Volatiles, %:** 70.0

**Odour threshold:** N/Av

**Viscosity (Centistokes @ 40°C):** 7.06

**Boiling point:** N/Av

**pH:** N/Av

**Evaporation rate (BuAe = 1):** N/Av

**Solubility in water:** Insoluble.

### SECTION IV - FIRE AND EXPLOSION DATA

**Conditions of flammability:** Flammable liquid and vapour. This product will be ignited by heat, sparks, direct flame and other sources of ignition.

**Flash point (Method):** 10°C / 50°F (TAG OPEN CUP A.S.T.M. D-1310)

**Upper flammable limit %:** 9.7

**Lower flammable limit %:** 1.9

**Auto-ignition temperature:** N/Av

**Means of extinction:** Use foam, carbon dioxide, dry chemical or water fog. Do not use water jet, as this may spread burning material.

**Sensitivity to mechanical impact/static discharge:** May be sensitive to static discharge. Not expected to be sensitive to mechanical impact.

**Special Fire Fighting Procedures:** Wear self-contained, positive pressure breathing apparatus (SCBA) and complete personal protective equipment. Move containers from fire area if it can be done without risk. Water spray may only be useful in cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

**Unusual Fire and Explosion Hazards:** Vapours are heavier than air and collect in low-lying areas. The vapours may travel considerable distances and flashback to a distant source of ignition. Closed containers may build-up pressure when exposed to heat and flame. This product will float and may be re-ignited at the water's surface.

**Hazardous Combustion Products:** Carbon oxides, sulfur oxides, nitrogen oxides, phosphorous oxides and other toxic and irritating fumes and smoke.

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### SECTION V - REACTIVITY DATA

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**Stability:** Stable under ambient pressure and temperature. Hazardous polymerization will not occur.

**Incompatible materials:** Strong oxidizing agents.

**Conditions of reactivity:** Stable under ambient pressure and temperature. Avoid heat, sparks, flame, and incompatible material.

**Hazardous decomposition products:** None known. Refer to 'Hazardous combustion products', Section 4.

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### SECTION VI - TOXICOLOGICAL PROPERTIES

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*\*\*\* Routes of exposure and acute/chronic effects \*\*\**

**Exposure limit:**

ACGIH - TLV: Aliphatic petroleum oil (Stoddard solvent) – 100 ppm; Petroleum based oil – 5 mg/m<sup>3</sup> (*As Oil mist, mineral*).

OSHA - PEL: Aliphatic petroleum oil (Stoddard solvent) – 500 ppm; Petroleum based oil – 5 mg/m<sup>3</sup> (*As Oil mist, mineral*).

**Inhalation:** Inhalation may cause irritation to the nose, throat and upper respiratory tract. Symptoms may include headache, nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

**Skin:** Contact with liquid may cause mild to moderate irritation.

**Eyes:** Exposure to high vapor concentrations or contact with liquid may cause mild irritation. Symptoms may include tearing and redness.

**Ingestion:** May be harmful or fatal if swallowed. Causes irritation to the mouth, throat and stomach. Symptoms may include nausea, vomiting and diarrhea. Ingestion could cause aspiration of the chemical into the lungs. Aspiration can result in life-threatening lung injury.

**Chronic effect:** Prolonged or repeated exposure may cause drying and cracking of the skin (dermatitis).

**Carcinogenicity:** None of the ingredients are classified as carcinogenic by IARC or ACGIH.

**Reproductive effects, Teratogenicity, Mutagenicity:** None known.

**Sensitization to material:** Not expected to cause allergic skin or respiratory sensitization reactions.

**Synergistic materials:** N/Av.

**Conditions aggravated by exposure:** Pre-existing skin and respiratory disorders.

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### SECTION VII - FIRST AID

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**Inhalation:** Remove patient from contaminated area. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Obtain medical attention.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with mild soap and running water. Obtain medical attention if irritation persists. Launder contaminated clothing.

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Obtain medical attention if irritation persists.

**Ingestion:** If swallowed, do NOT induce vomiting. Obtain medical attention immediately! If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.

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### SECTION VIII - PREVENTIVE MEASURES

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**Spill, leak or release:** Restrict access to spill area. Wear appropriate protective equipment. Eliminate all sources of heat, sparks, flame and ignition. Ventilate area of release. Stop leak if you can do so without risk. Use non-sparking tools during the clean-up process. Contain and absorb spilled material with inert, non-combustible absorbent material (e.g. sand), then place absorbent material in a suitable, closed and labelled container for later disposal (see below). Do not allow to enter sewers or confined spaces. Notify the appropriate authorities as required.

**Waste disposal:** Handle according to recommendations listed below. Improper disposal can cause damage to the environment. Dispose of in accordance with all applicable government Regulations.

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#### **\*\*\* PROTECTIVE EQUIPMENT \*\*\***

**Respiratory protection:** For prolonged exposures or if the TLV is exceeded, wear NIOSH-approved respirator. Advice should be sought from respiratory protection specialists.

**Ventilation:** Use in well-ventilated area. General or local exhaust ventilation may be required.

**Protective gloves:** Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

**Eye protection:** Safety goggles are recommended to prevent splashes from entering the eyes.

**Other protective equipment:** An eyewash station and safety shower should be made available in the immediate working area. Impervious clothing and rubber boots, and any other safety equipment may also be required, as per workplace standards.

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**SECTION VIII - PREVENTIVE MEASURES CONTINUED**

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**\*\*\* STORAGE & HANDLING \*\*\***

**Storage and handling conditions:**

*Handling:* This material is a flammable, harmful liquid. Wear protective equipment during handling. Use in well ventilated area. Avoid contact with eyes, skin and clothing. Avoid inhalation. Wearing contact lenses is inadvisable. Keep away from children. Do not use near sources of heat, flame, sparks or ignition sources. Ground all equipment during handling. Use caution when opening containers. Keep away from incompatibles. Keep container tightly closed when not in use. Wash thoroughly after handling.

*Storage:* Store in a cool, dry, well-ventilated area away from incompatibles, heat and flame. No smoking in the area. Inspect containers periodically for damage or leaks.

**Special Shipping Information – Canadian Transportation of Dangerous Goods Regulations (TDGR):**

Proper Shipping Name: PETROLEUM PRODUCTS, N.O.S.  
UN No.: UN1268  
Primary Class(es): 3  
Subsidiary Class(es): None.  
Packing Group: II

*Other Shipping Information:* This product may be shipped by ground within Canada, as a 'Consumer commodity' or a 'Limited Quantity' when in containers which hold 1 Litre or less of the material. Refer to the TDGR Section 1.17 for additional Limited Quantity and Consumer Commodity requirements, if shipping under this exemption.

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**SECTION IX - PREPARATION INFORMATION**

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**Prepared by: ICC The Compliance Center Inc. for Deep Lube of Canada**

**Telephone number:** 905-704-1158 (Deep Lube of Canada)

**Preparation date:** February 21, 2007.

**Additional notes or references:**

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists  
A.S.T.M.: American Society for Testing and Materials  
CAS: Chemical Abstract Services  
IARC: International Agency for Research on Cancer  
inh: Inhalation  
N/Ap: not applicable  
N/Av: not available  
NIOSH: National Institute of Occupational Safety and Health  
OSHA: Occupational Safety & Health Administration  
PEL: Permissible Exposure Limit  
RTECs: Registry of Toxic Effects of Chemical Substances  
TLV: Threshold Limit Values  
WHMIS: Workplace Hazardous Materials Information System

- Reference:
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2006.
  2. International Agency for Research on Cancer Monographs, searched 2007.
  3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2007 (Chempendium and RTECs).
  4. Material Safety Data Sheet from manufacturer.

**END OF DOCUMENT**