

# MATERIAL SAFETY DATA SHEET

## Lloyds Laboratories Inc.

### Nanolube Diesel Fuel Treatment – Part # 72501, 72520

#### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Nanolube Diesel Fuel Treatment.      **PRODUCT USE:** Fuel Treatment.

**MANUFACTURER:** Lloyds Laboratories Inc.      **SUPPLIER:** Lloyds Laboratories Inc.

**ADDRESS:** 613 Neal Drive, Peterborough, Ontario, K9J 6X7      **ADDRESS:** 613 Neal Drive, Peterborough, Ontario, K9J 6X7

**EMERGENCY #:** 1 800 361-6766      **EMERGENCY #:** 1 800 361-6766

#### SECTION II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-PEL	ACGIH-	LD <sub>50</sub>
Hydrotreated Light Naphthenic Petroleum Oil	64742-53-6	70-90%	5 mg/m3 oil mist	5 mg/m3 oil mist	> 2,000 mg/Kg (Oral/Rat)
Naptha Heavy aromatic	64742-94-5	1-5%	5 mg/m3 oil mist	5 mg/m3 oil mist	> 2,000 mg/Kg (Oral/Rat)
Trimethylbenzene ( mixed)	25551-13-7	1-3%	25ppm TWA	Not established	> 2,000 mg/Kg (Oral/Rat)
2-ethylhexylene nitrate	27247-96-7	20-30%	Not established	Not established	> 2,000 mg/Kg (Oral/Rat)

#### SECTION III: HAZARDOUS IDENTIFICATION

**Route of Entry:** Eye, skin contact, ingestion.

**Potential Health Effects:**

**Eye Contact:** May cause severe irritation to eyes.

**Skin Contact:** May cause severe irritation upon repeated/ prolonged contact.

**Inhalation:** May cause nose, throat and respiratory tract irritation.

**Ingestion:** May cause irritation to mouth, esophagus and stomach. May cause gastric tract disorder and/or damage.

**Chronic Effects:**

**Carcinogenicity:** No ingredients listed IARC or NTP or ACGIC.

**Teratogenicity, Mutagenicity, Reproductive Effects:** The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471).

**Skin:** Repeated or prolonged exposures to dilutions can cause drying, defatting and dermatitis.

#### SECTION IV: FIRST AID MEASURES

**Eye Contact:** Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.

**Skin Contact:** Immediately flush with water for 15 minutes. Seek medical attention if irritation persists. Remove contaminated clothing and launder before reuse.

**Inhalation:** Move victim to fresh air. If conscious, have victim take deep, slow breaths. Seek medical attention if symptoms persist.

**Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water.

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Seek medical attention. Do not give anything to victim if unconscious or convulsing.

#### SECTION V: FIRE FIGHTING MEASURES

<b>Flammability:</b>	Combustible liquid.
<b>Flash Point deg (C,TCC) :</b>	105 F.
<b>Means of Extinction:</b>	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam.
<b>Special Fire Hazards:</b>	Fire fighters should wear self contained breathing apparatus.
<b>Autoignition Temperature:</b>	Not applicable.
<b>Flame Propagation or Burning Rate of Solid:</b>	Not applicable.
<b>Sensitivity to Static Discharge:</b>	Not applicable.
<b>Unusual Fire and Explosion Hazards:</b>	None expected. As per surrounding fire.
<b>Hazardous Decomposition Products:</b>	Oxides of carbon, oxides of nitrogen.

#### SECTION VI: ACCIDENTAL RELEASE MEASURES

<b>Leak and Spill Procedures:</b>	Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading.
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#### SECTION VII: HANDLING AND STORAGE

<b>Storage Requirements:</b>	KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include acids, oxidizing materials, reducing sugars and Ammonia Salts. Storage temperature -40 ° C Ambient to 30° C. Transport temperature -40° C Ambient to 30° C. Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials. Do not store near open flame. Do not reuse empty containers.
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#### SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Gloves:</b>	Impervious protective gloves.
<b>Eye Protection:</b>	Chemical splash goggles.
<b>Respiratory Protection:</b>	Not normally required if good ventilation is maintained. If mist is generated during application process, use disposable mist applicator.
<b>Other Protective Equipment:</b>	As required by employer code. Eye bath, safety shower, protective clothing.
<b>Engineering Controls:</b>	General ventilation normally required. If ventilation practices are not adequate for minimizing exposure, additional ventilation or exhaust systems may be required.

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#### SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point ( deg C):</b>	100	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.88	<b>Evaporation Rate (water=1):</b>	Similar
<b>% Volatile (Wt%):</b>	> 85 %	<b>Solubility in water:</b>	Insoluble	<b>pH (as supplied):</b>	Not applicable
<b>Physical State:</b>	Liquid	<b>Viscosity:</b>	As Water		
<b>Appearance / Odour:</b>	Clear liquid with typical odour				

#### SECTION X: STABILITY AND REACTIVITY

**Conditions for Chemical Instability:** Stable.  
**Incompatible Materials:** Strong oxidizing agents, strong acids.  
**Hazardous Decomposition Products:** Oxides of carbon, Oxides of Nitrogen when heated.

#### SECTION XI: TOXICOLOGICAL INFORMATION

**Routes of Entry:** Eye contact, Inhalation, Ingestion.

**Toxicity to Animals:**

LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:** The substance is toxic to lungs, the nervous system.

**Other Toxic Effects on Humans:**

Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

#### SECTION XII: ECOLOGICAL INFORMATION

**Biodegradability:** Not biodegradable. Advise authorities if product has entered or may enter watercourses or sewer drains.

#### SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of through a licensed waste management company. Dispose of in accordance to all local, provincial/state and federal regulations.

#### SECTION XIV: TRANSPORTATION

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T.D.G. Classification: As reported on bill of lading.

#### SECTION XV: REGULATORY INFORMATION

##### Occupational Health and Safety

##### Regulations:

##### WHMIS Class:

Class D Division 2B Class B3.

##### OSHA & WHMIS:

MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations.

#### SECTION XVI: OTHER INFORMATION

<b>Date:</b>	June 7, 2016	<b>Prepared By:</b>	Technical Services Group	<b>Telephone:</b>	1 800 361-6766
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##### Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST in Montreal, Quebec (514-873-3990).