

Material Safety Data Sheet

LUBRO 15W40 DIESEL ENGINE OIL 15W40

1. Identification of the Product and the Company

1.1 **Product name:** LUBRO 15W40

1.2 **General Feature :** Diesel Engine Oil 15W-40

1.3 **Company name:**

RAINCHEM INTERNATIONAL, INC.

Bay 11 Cervantes Compound, Km.17 West Service Road Sucat, Parañaque City

1.4 **Emergency Phone Number:** R & D Section

Tel : +0632-823-1743 Fax : +0632-823-1744

2. Composition/Information on Ingredients

<i>Ingredient</i>	<i>CAS No.</i>
Lubricating base oil	Mixture
Zinc Dialkyl Dithiophosphate	68457-79-4
Anti-oxidant	chemical compound
Proprietary additive	chemical compound

3. Hazards Identification

3.1 Potential Health Effects:

Eye Contact:

May cause irritation to the cornea of the eye. Pay attention to eye contact.

Prolonged effects: No Information found

Skin Contact:

Lubricating oils are generally considered no more than mildly irritating to the skin.

Prolonged effects : no information found

Inhalation:

Inhalation of vapors (generated at high temperatures) or mist may be mildly irritating to the nose, throat and respiratory tract.

Have no harmful effect in normal temperature and atmospheric pressure.

Ingestion:

Lubricating base oils are generally considered no more than slightly toxic if swallowed.

Prolonged effects: No information found.

Signs & Symptoms:

No information found. But in case of allergy may cause skin irritation or respiratory diseases.

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4. First Aid Measures

4.1 Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation occurs, get medical attention immediately.

4.2 Skin Contact:

Remove contaminated clothing/shoes and wipe excess from skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. If material is injected under the skin, get medical attention promptly to prevent serious injury.

4.3 Inhalation:

Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

4.4 Ingestion:

Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical advice.

5. Fire Fighting Measures

5.1 Fire:

Flash Point : >212°C

Ignition point : no information found

5.2 Fire Extinguishing Media:

Foam. Dry chemical. Carbon Dioxide. Halogen Chemical.

Observe the rules of fire fighting.

5.3 Special fire fighting procedures and precautions:

Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

6. Accidental Release Measures

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non sparking tools and equipment. Collect in an appropriate container and place in or absorb with inert material (e.g., vermiculite, dry sand, earth), or in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer.

7. Handling and Storage

Keep in tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Store separately from reactive or combustible materials may be hazardous when empty since they retain product residues (vapors, liquids); observe all warning and precautions listed for the product.

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8. Exposure Controls/ Personal Protection

8.1 A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne.

Exposure Limits, Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, Manual of Recommended Practices most recent edition, for details.

8.2 Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half face piece particular respirator (NIOSH type P95 or R95 filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece particulate respirator (NIOSH type P100 or R100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. Please note that N filters are not recommended for this material. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.

8.3 Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

8.4 Eye Protection:

Use chemical safety goggles and/or a full-face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemicals Properties

9.1 Appearance : Clear

9.2 Odor : Mild

9.3 Flash Point : >212°C

9.4 Physical State: Liquid

9.5 Density, kg/li : 0.875

9.6 Water Solubility: Insoluble

9.7 Viscosity @ 40°C : 106.52 cSt

10. Stability and Reactivity

10.1 **Stability** : Stable under ordinary conditions of use and storage

10.2 **Hazardous Polymerization** :

No information found. Stable under normal temperature and pressure.

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11. Toxicological Information

Repeated or prolonged skin contact with certain lubricating oils can cause mild skin irritation characterized by drying, cracking or oil acne. Injection under the skin, in muscle or into the blood stream can cause irritation, inflammation, swelling, fever, and systematic effects, including mild central nervous system depression.

12. Ecological Information

12.1 Environmental Fate:

An environmental fate analysis has not been conducted on this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based lube oils will normally float on water.

12.2 Ecotoxicity:

Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and water flow.

13. Disposal Consideration

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with government requirements.

14. Transport Information

Not regulated.

15. Other Information

A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required.