



BHARAT PETROLEUM CORPORATION LIMITED

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY Product name

Product type

Product Supplier

Product Importer

ELGI RECIPLUBE

Compressor Oil – Mineral Oil based

Bharat Petroleum Corporation Limited,
4 & 6, Currimbhoy Road, Ballard Estate,
Mumbai – 400 001. Maharashtra. India.

ELGI EQUIPMENTS AUSTRALIA PTY LTD,
Unit 1, 33 Kingsbury Street,
Brendale, QLD 4500, Australia

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation description

Blend of highly refined mineral oils and
Performance additives.

Hazardous Ingredients: Component	CAS No.	GHS Hazard Statement	Conc (wt %)
Mineral Oil	Mixture	N.A	95–99
Antiwear, Rust and corrosion Inhibitors, Oxidation Inhibitors, Antifoam Agents	Confidential	H318, H315, H332, H400 H 313 H319, H315, H411	1 - 5

The chemical composition of the additives used in finished oil is confidential in nature and the details are not disclosed. However the composition details will be provided to medical staff in case of emergency

3. HAZARDS IDENTIFICATION

Human health hazards

No specific hazards under normal use
conditions. Exposure limit for oil mist
applies. Prolonged or repeated exposure
may give rise to dermatitis.

Safety hazards

Not classified as flammable, but will burn.

Environmental hazards

Not readily biodegradable. Expected to
have a high potential to bioaccumulation.

Other information

Not classified as dangerous for supply or
conveyance.

Appearance

Golden yellow to amber liquid

GHS Classification

Not Hazardous

Skin Irritant, Category 1
Skin Sensitization, Category 1
Aquatic Toxicity (Chronic), Category 1

Signal Words:

No signal word

GHS Label Elements Symbol(s)



4. FIRST AID MEASURES

Symptoms and effects

Not expected to give rise to an acute hazard under normal conditions of use

First Aid – Inhalation

In the event of dizziness or nausea, remove casualty to fresh air. If symptoms persist, obtain medical attention.

First Aid – Skin

Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention. If high pressure injection injuries occur, obtain medical attention immediately.

First Aid – Eye

Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

First Aid - Ingestion

Wash out mouth with water and obtain medical attention. **DO NOT INDUCE VOMITING.**

Advice to physicians

Treat symptomatically; Aspiration into the lungs may result in chemical pneumonitis. Dermatitis may result from prolonged or repeated exposure.

5. FIRE FIGHTING MEASURES

Specific hazards

Combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds.

Extinguishing media

Foam and dry chemical powder, Carbon dioxide, sand and earth may be used for small fires only.

Unsuitable extinguishing media

Never use a water jet. Use of Halon extinguishers should be avoided for environmental reasons.

Protective equipment

Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with skin and eyes.
Personal protection	Wear impermeable gloves and boots.
Environmental precautions	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Inform local authorities if this cannot be prevented.
Clean-up methods – small spillage	Absorb liquid with sand or earth, Sweep up and remove to a suitable, clearly marked container for disposal in accordance with local regulations.
Clean-up methods – large spillage	Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Dispose of as for small spills.

7. HANDLING AND STORAGE

Handling	Carry out a health risk assessment to determine safe handling procedures and equipment that are necessary to avoid contact and that are appropriate to the job. Prevent spillages.
Storage	Store in a cool, dry, well-ventilated place. Use properly labelled and closable containers. Avoid direct sunlight, heat sources, and strong oxidizing agents.
Storage temperature	0 °C minimum to 50 °C maximum
Recommended materials	Use mild steel or high density polyethylene (HDPE) for containers or container linings.
Unsuitable materials	Avoid PVC for containers or container linings.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering control measures	Carry out a health risk assessment to determine safe operating procedures to avoid contact and exposure. Apply engineering controls appropriate to the job.
Hygiene measures	Wash hands before eating, drinking, smoking and using the toilet.
Respiratory protection	Carry out a health risk assessment to determine personal protection equipment that is necessary to avoid contact and exposure and that is appropriate to the job.
Hand protection	Wear PVC or nitrile rubber gloves.

Eye protection

Wear safety glasses or full face shield if splashes are likely to occur.

Body protection

Minimize all forms of skin contact, Wear overalls to minimise contamination of personal clothing. Launder overalls and undergarments regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Liquid at ambient temperature.

Colour

Golden yellow to Amber

Odour

Characteristic mineral oil

Initial boiling point

Expected to be above 280 °C.

Vapour pressure

Expected to be less than 0.5 Pa at 20 °C

Density (Average)

0.870 g/ml at 15 °C

Vapour density (air = 1)

Greater than 1

Pour point, Max

-12 °C

Kinematic Viscosity at 40°C, cSt

135 to 165

Flash point, °C (COC)

246 min.

Flammability limit - lower

1 % v/v

Flammability limit - upper

10 % v/v

Auto-ignition temperature

Expected to be above 320 °C

Solubility in water

Negligible

10. STABILITY/REACTIVITY

Stability

Stable

Conditions to avoid

Extremes of temperature and direct sunlight

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Inhalation

Not considered to be Inhalation hazard under normal conditions of use.

Eye Irritation

Expected to be slightly irritant

Skin irritation

Expected to be slightly irritant

Respiratory Irritation

If mists are inhaled, slight irritation of the respiratory tract may occur

Skin Sensitization

Not expected to be a skin sensitizer

Other information

Prolonged and / or repeated contact with other products containing mineral oils can result in defatting of the skin, particularly at elevated temperatures. This can lead to irritation and possibly dermatitis, especially under conditions of poor personal hygiene. Skin contact should be minimized.

Chronic Toxicity

Carcinogenicity

No data available to indicate product or components present at greater than 0.2% are chronic health hazards.

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC.

12. ECOLOGICAL INFORMATION

Basis of assessment

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

Mobility

Liquid under most environmental conditions. Floats on water, if it enters soil, it will absorb to soil particles and will not be mobile. This product is expected to have low soil mobility due to very low water solubility and low vapor pressure. Petroleum oils adsorb to soil and sediment. Once adsorbed, the product is expected to adhere to soil until it is slowly biodegraded.

Persistence/degradability

Not readily biodegradable. Major constituents are expected to inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulation

Has the potential to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Waste disposal

Used or waste oil should be recycled or disposed of in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the contractor to deal satisfactorily with used oil should be established beforehand.

Product disposal

All disposal practices must be in

accordance with local, regional, national, and international regulations. Do not dispose in a landfill. Wherever possible, recycle product to used oil collection facilities in accordance with applicable regulations.

14. TRANSPORT INFORMATION

Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO codes.

15. REGULATORY INFORMATION

EC Classification

Not classified as dangerous under EC criteria

16. OTHER INFORMATION

Compiled By

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