

SAFETY DATA SHEET

「COMPANY IDENTIFICATION」

Company	Lobtex Co., Ltd.
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Version 5

「Product name」	Gear Oil
「Product Code」	JO50

Safety Data Sheet of this product will be attached as well.

SAFETY DATA SHEET

COSMO GEAR MO 150

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of substance/preparation

LUBRICATING OIL

(COSMO GEAR MO 150)

Application

Gear Oil

For specific application advice see appropriate Technical Service Sheet or consult your COSMO OIL LUBRICANTS representative

Company Identification

COSMO OIL LUBRICANTS CO.,LTD.

1-1, Shibaura 1-Chome,

Minato-ku Tokyo, 105-8331 Japan

Emergency Telephone Number

+81-3-3798-3875

Signature of Preparer(Optional)

2. HAZARDS IDENTIFICATION

(EC) No 1272/2008

Not classified.

GHS Classification

Not classified.

POTENTIAL HEALTH EFFECTS : Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

For further health effects/toxicological data, see Section 11.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	EC No	Weight %	CLP Classification
Mineral Oil	Confidential	Confidential	95-99	Note L
Additive	N.A.	N.A.	1-5	N.A.

Note L

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

The producer of "Mineral Oil" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST-AID MEASURES

Eyes

Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open.
Obtain medical advice if any pain or redness develops or persists.

Skin

Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.

Ingestion

If contamination of the mouth occurs, wash out thoroughly with water.
Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.

Inhalation

If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

Medical Advice

Treatment should in general be symptomatic and directed to relieving any effects.
Aspiration of the product is unlikely to occur except as the result of ingestion, followed by vomiting or regurgitation in a partially or totally unconscious individual, when immediate effects are most likely to result from the aspiration of acidic stomach contents.
If it should occur, transport casualty immediately to hospital.

5. FIRE-FIGHTING MEASURES

Use foam, dry powder or water fog. Do not use water jets.
Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.
Water may be used to cool nearby heat exposed areas/objects/packages. Avoid spraying directly into storage containers because of the danger of boil-over.

Combustion Products

Toxic fumes may be evolved on burning or exposure to heat.
See Stability and Reactivity, Section 10 of this Safety Data Sheet.

6. ACCIDENTAL RELEASE MEASURES

Ensure good ventilation.
Evacuate all non essential personnel from the immediate area.
Contain and recover spilled material using sand or other suitable inert absorbent material. It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage which may be reasonably anticipated.
Spilled material may make surfaces slippery.
Protect drains from potential spills to minimise contamination. Do not wash product into drainage system.
In the case of large spills contact the appropriate authorities.

7. HANDLING AND STORAGE

Handling Precautions

Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate.
Avoid frequent or prolonged skin contact with fresh or used product.
Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times.
Whilst using do not eat, drink or smoke.
Wash hands thoroughly after contact.
Use disposable cloths and discard when soiled.

Fire Prevention

Product soaked rags, paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.
Empty containers represent a fire hazard as they may contain some remaining flammable product and vapour. Never cut, weld, solder or braze empty containers.

Storage Conditions

Store under cover away from heat and sources of ignition.
Containers must be properly labelled and kept closed when not in use.
Empty packages may contain some remaining product. Retain hazard warning labels on empty packages as a guide to the safe handling, storage and disposal of empty packaging.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

This product contains mineral oil.
Under conditions which may generate mists, observe the OSHA PEL of 5mg per cubic meter, ACGIH STEL of 10mg per cubic meter.

Protective Clothing

Wear face visor or goggles in circumstances where eye contact can accidentally occur.
Change heavily contaminated clothing as soon as reasonably practicable; dry clean, launder and preferably starch before re-use. Wash any contaminated underlying skin with soap and water.

Respiratory Protection

Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes is adequately controlled.
The use of respiratory equipment must be strictly in accordance with the manufacturers' instructions and any statutory requirements governing its selection and use.

9. PHYSICAL AND CHEMICAL PROPERTIES Typical Values

	Units	
Physical state		Liquid
Color		Black
Odor		Mild Oil Odor
Density @ 15°C	g/cm ³	0.895
Flash point (COC)	°C	230
Pour point	°C	-15.0
Solubility in Water		insoluble
Viscosity(@40°C)	mm ² /s	156

10. STABILITY AND REACTIVITY

Conditions to Avoid

Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.
Hazardous polymerisation reactions will not occur.
This material is combustible.

Materials to Avoid

Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.
Incomplete combustion/ thermal decomposition will generate smoke, carbon dioxide and hazardous gases, which will include carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral

The LD50 in rat is > 5000mg/kg.

Dermal

The LD50 in rabbit is > 5000mg/kg.

Skin corrosion/irritation

Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.

Serious eye damage/ irritation

Not expected to cause eye irritation. Based on data from components or similar materials.

Respiratory irritation

If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from components or similar materials.

Respiratory or skin sensitization

Skin

No data available to indicate product or components may be a skin sensitizer.

Respiratory

No data available to indicate product or components may be a respiratory sensitizer.

Germ cell mutagenicity

No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. This note applies only to certain complex oil derived substances in Annex 1. The producer of "Mineral Oil" declares that it contains less than 3% DMSO extractable material by IP 346.

Reproductive toxicity

No data available to indicate either product or components at greater than 0.1% that may cause reproductive toxicity.

STOT repeated exposure

No data available to indicate product or components present at greater than 0.1% that may cause reproductive toxicity.

Other information

No other health hazards known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No expected to be harmful to aquatic organisms.

Mobility

Spillages may penetrate the soil causing ground water contamination.

Persistence and degradability

This product is not expected to be readily biodegradable.

Bioaccumulative potential

There is no evidence to suggest bioaccumulation will occur.

Aquatic toxicity

May be harmful to aquatic organisms.

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. DISPOSAL CONSIDERATIONS

Where possible, arrange for product to be recycled.
Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.
Dispose of product and container carefully and responsibly. Do not dispose of near ponds, ditches, down drains or onto soil.

14. TRANSPORT INFORMATION

IMDG/IMO : Not Regulated
RID : Not Regulated
ADR : Not Regulated
ICAO : Not Regulated
IATA : Not Regulated

15. REGULATORY INFORMATION

CLP

This product does not meet the classification requirements of the current European legislation.

Signal word

Not hazardous

GHS

Signal word Not Hazardous

16. OTHER INFORMATION

Complied by:

COSMO OIL LUBRICANTS CO.,LTD.
TECHNICAL DEPT.
Shibaura, Minatoku, Tokyo Japan

This data sheet and the health, safety and environmental information it contains is considered to be accurate as of the date specified below. We have reviewed any information contained herein which we received from sources outside the Cosmo Oil Lubricants. However, no warranty or representation, express or implied is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission, recommendation or authorization given or implied to practise any patented invention without a valid licence. Cosmo Oil Lubricants shall not be responsible for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.