



Cosmo Oil Lubricants Co., Ltd.

SAFETY DATA SHEET

1. Chemical Product and Company Identification

ProductName COSMO TURBINE 32

Product Code 3541010

Date of creation 2022/05/23

Details of the supplier of the safety data sheet
Company : COSMO OIL LUBRICANTS CO., LTD.

Address : 1-1-1, Shibaura, Minato-ku, Tokyo, Japan

Name of Section : Quality Assurance Department

TEL : +81-3-3798-3875

Product Use : Turbine Oil

2. Hazards identification

[GHS LABEL ELEMENTS]

PHYSICO-CHEMICAL HAZARDS

No applicable GHS classification data.

HEALTH HAZARDS

No applicable GHS classification data.

ENVIRONMENTAL HAZARDS

No applicable GHS classification data.

[GHS LABEL ELEMENTS]

Pictogram : None

Signal Word : None

Hazard Statement : None

Precautionary Statement
None

Other notes

: Even if there is no description in the precautionary statement based on GHS classification, sufficient consideration should be given to Safety measures / First aid measures / Storage / Disposal by referring to the information in the following chapters.

3. Composition/information on ingredients

Substance or Preparation : Mixture

Component	Content (%)
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Mineral oil	100
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4. First aid measures

Inhalation	: If inhalation of mists, fumes or vapor causes irritation to the nose or throat, or coughing, remove to fresh air. comfortable for breathing.
	: If symptoms persist obtain medical advice
Skin contact	: Wash skin thoroughly with soap and water as soon as reasonably practicable.
	: If skin irritation occurs obtain medical advice.
Eye contact	: Wash eye thoroughly with clean water.
	: Obtain medical advice if any pain or redness develops or persists.
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.
Most important symptoms and effects, both acute and delayed	: See Section 11 for more detailed information on health effects and symptoms.
Necessary precautions for protection of person performing first aid measures	: No information
Special precautions for doctors	: No information

5. Fire fighting measures

Extinguish media	: Use foam, dry powder or water fog, carbon dioxide.
Extinguishing media that do not use it	: Do not use water jets.
Specific hazards arising from the substance or mixture	: Toxic fumes may be evolved on burning or exposure to heat. See Section 10 for information on stability and reactivity.
Fire Fighting	: Eliminate all ignition sources if safe to do so. : Water the surrounding equipment to cool them down. : Cordon off the affected place and its vicinity to all, except the concerned parties.
Specific protective equipment for firefighters	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

6. Accidental release measures

Personal precautions, protective equipment and emergency	: Use appropriate Personal Protective Equipment (PPE). : Evacuate all non essential personnel from the immediate area.
Environmental precautions	: Prevent leakage into sewer, rivers and etc., and take measures to prevent environmental pollution.
Methods and material for containment and cleaning up	: Absorb and recover by use of sand or other suitable inert absorbent material.

- : In a large leakage, enclose it with sand bank and stop outflow, and recover spilled material into containers.
 In event of spillage in the sea, extend oil fences to prevent diffusion, and sop up with absorbent materials. In event of using chemicals and/or detergents, they must satisfy the technical standards as set by the Ministry of Land, Infrastructure and Transport.
- Prevention measure of secondary disaster

: In the case of large spills contact the appropriate authorities.

 : Promptly remove ignition sources nearby.

7. Handling and storage

- Handling

Technical measures

: Follow the regulations of the Fire Service Act.
 : Keep away from flame or high temperature, and avoid, whenever possible, a generation of vapor.

 : Take measures against static discharge. Ensure to wear clothing and shoes made of conductive materials.

 : Never suck up (siphoning) this material by mouth.
 : Wear personal protective equipment if there exists a chance of getting contact with skin or enter into eye.

 : Do not breathe dust, vapor, spray.
- Precautions

: No information available
- Precautions for safe handling

: Perform local exhaust and general ventilation as described in "8. Exposure controls/personal protection".
- Avoid contact

: Avoid contact with halogens, strong acids, alkali and oxidizing materials.
- Hygiene measures

: Whilst using do not eat, drink or smoke.
 : Wash hands thoroughly after contact.
- Storage

Storage conditions

: Store in a cool and well-ventilated place away from direct sunlight.

 : Keep container tightly closed
 : Avoid heat, sparks, open flame and static accumulation.
 : Label and display as hazardous material and store.
- Safe container packaging materials

: Do not pressurize empty containers. May cause rupture.

 : Do not weld, heat up, drill or cut containers. May ignite the residue and cause explosion.

8. Exposure controls / Personal protection

- Control parameters

Chemical name	Administrative levels	Japanese Society of Occupational Health	ACGIH
Mineral oil	—	3mg/m3	TWA: 5mg/m3
- Equipment

: Install the appropriate general ventilation equipment, local exhaust ventilation in the workplace.

: Install eye shower and body shower near the work site.

Personal protection

Respiratory protection : Use respiratory equipment appropriately in response to the circumstances.

Hand protection : Use oil-proof protective hand gloves appropriately in response to the circumstances.

Eye protection : Use safety glasses with side protection appropriately in response to the circumstances.

Skin protection : Use protective clothing appropriately in response to the circumstances.

Special precautions : No information

9. Physical and chemical properties

Physical state : Liquid
 Color : Light yellow
 Odor : Slight odor
 Melting point : -15.0°C (Pour point)
 Boiling point/Boiling range : No information available
 Flammability : No information available
 Range of explosion (lower bound – upper bound) : 1-7vol%(estimated)
 Flash point : 220°C (COC)
 Autogenous ignition point : No information available
 Decomposition temperature : No information available
 pH : No information available
 Kinematic viscosity : 32.2mm²/s (40°C)
 Solubility : Water: insoluble
 Water partition coefficient : No information available
 Vapor pressure : No information available
 Density/Specific gravity : 0.87g/cm³ (15°C)
 Vapor density : No information available
 Particle characteristics : No information available

10. Stability and reactivity

Reactivity : Stable under normal conditions of use and unlikely to react.
 Chemical stability : Stable under normal storage conditions.
 Possibility of hazardous reactions : No hazardous reaction known under conditions of normal use.
 Conditions to avoid : Heat. Incompatible materials.
 Incompatible materials : Halogens, strong acids, alkalies and oxidizing agents.
 Hazardous decomposition products : Incomplete combustion/ thermal decomposition will generate smoke, carbon dioxide and hazardous gases, which will include carbon monoxide.

11. Toxicological information

The hazard classification of products was classified based on the classification criteria of the mixture.

Acute toxicity(oral)

Not classified LD50 > 5000mg/kg (Rat)

Acute toxicity(dermal)

Not classified LD50 > 5000mg/kg (Rat)

Acute toxicity(inhalation: gases)

Exempt classification

Acute toxicity(inhalation: vapors)

Exempt classification

Acute toxicity(inhalation: dusts and mists)

Not classified LC50 > 5mg/L (Rat 4h)

Skin corrosion/Skin irritation

Not classified Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.

Serious eye damage/Eye irritation

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

Respiratory sensitizer

Classification not possible

Skin sensitizer

Not classified No data available to indicate product or components may be a skin sensitizer.

Germ cell mutagenicity

Not classified No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Not classified 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 "Lubricating oils" declares that it contains less than 3% DMSO extractable material by IP 346.

Toxic to reproduction/Effects on or via lactation

Not classified/Not classified No data available to indicate either product or components at greater than 0.1% that may cause reproductive toxicity.

Specific target organ toxicity(single exposure)

Not classified No data available to indicate product or components present at greater than 0.1% that may cause STOT by single exposure.

Specific target organ toxicity(repeated exposure)

Not classified No data available to indicate product or components present at greater than 0.1% that may cause STOT repeated exposure.

Aspiration hazard

Not classified

12. Ecological information

The hazard classification of products was classified based on the classification criteria of the mixture.

Hazard to the aquatic environment (acute)

Not classified

Hazard to the aquatic environment (chronic)

Not classified

Hazardous to the ozone layer

Classification not possible

Toxicity to fish : Fathead minnow 96h LL50 > 100 mg/L
Fathead minnow 14d NOEL > 100 mg/L

Toxicity to invertebrate : Crustacea (Daphnia magna) 48h EL50/NOEL > 10,000mg/L
Crustacea (Daphnia magna) 21d NOEL > 10mg/L

Toxicity for algae : Selenastrum NOEL > 100 mg/L

Persistence and degradability : This product is not expected to be readily biodegradable.

Bioaccumulative potential : No information available

Mobility in soil : Oil spilled on the surface may be adsorbed to the soil and is unlikely to spill into groundwater.

13. Disposal considerations

Rest waste : Dispose of via an authorized person/ licensed waste disposal contractor in accordance with local regulations.

: Be discarded in accordance with the standards of the local government and relevant legislation.

: Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

A pollution container, packing : When disposing of empty containers, after the contents have been completely removed, and the mixture is processed in accordance with the standards of the local government as well as the related laws and regulations and waste disposal method.

14. Transport information

UN Number : Not applicable

Proper Shipping name : Not applicable

Class : Not applicable

Packing Group : Not applicable

Special safety measures for transport or means of transport : Transport the container without significant friction or agitation.

: Fire is strictly prohibited because of flammable liquid.

: A sign shall be displayed on the vehicle as specified by an Ordinance of the Ministry of Internal Affairs and Communications, and provide with fire fighting equipment, if and when required to transport more than the designated quantity for the vehicle.
Total piled height of vehicle shall be less than 3 meters for land transportation.

: Consolidation of this material with hazardous goods belonging to the Category I and Category VI is prohibited.

: Comply with applicable laws and regulations.

Domestic restriction

Land : Follow the transportation method specified by Fire Service Act and Industrial Safety and Health Law.

Sea : Follow the transportation method specified by Ship Safety Law.

Air : Follow the transportation method specified by Civil Aeronautics Law.

15. Regulatory information

Fire Service Act : Category IV Inflammable liquids

Pollutant Release and
Transfer Register (PRTR) : Not Regulated

Industrial Safety and Health
Law : Regulated

Poisonous and Deleterious
Substances Control Law : Not Regulated

Water Pollution Control Law : Regulated

Sewage Control Law : Regulated

16. Other information

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 practice any patented invention without a valid license.

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.