TRIBO LUBES PVT LTD

Manufacturer of Grease & Speciality oils

MATERIAL SAFETY DATA SHEET

1. Product and company identification

Product name:	TL EXTREME GEAR OIL (ISO 32, 46, 68, 100, 150, 220, 320, 460)
Product use:	Industrial gear oil
Manufacturer:	Survey No.13/7A, 14/3, 15/6,Takai Adoshi Rd, Behind Parsol Chemicals ltd, Village Honad, Post – Saigoan,Tal- Khalapur, Dist-Raigad, Maharashtra 410203
Telephone:	022-26520790
Emergency phone numbers in India:	022-26520790

2. Composition / Information on ingredients

Chemical Characterization : Mixture of highly refined mineral oils & additives

(PCS- Content < 3 % - IP346)

Substance name	Contents
Long Chain alkyl amine	01.0.2 %

3. Hazard Identification

Classification of the substance or Mixture : Not classified as a dangerous under EC criteria.
Most important adverse Physico -Chemical effect : Combustible liquid.
Most important adverse Human Health effect : Sensiting Substances, allegoric reactions possible
Most important adverse Environmental effect : No specific risk for the environment.

4. First – Aid Measures

Description of first aid measures:

-after Inhalation : Assure fresh air-breathing Obtain medical attention if Breathing difficulty persists

- after Contact with Skin : wash skin thoroughly with mild soap and water, Remove contaminated clothing & shoes never use Kerosene Or gasoline for cleaning the Skin

-after Contact with the Eye : Rinse immediately with plenty of water. Seek medical Attention if irritation develops.

-after Ingestion : Seek medical attention immediately do not induce vomiting

Most important symptoms & effects: Symptoms of exposure to vapours include drowsiness, Weakness, headache, dizziness, nausea vomiting Dimming of vision

5. Fire- Fighting Measures

Suitable extinguishing media : water fog carbon dioxide foam dry chemical product

Extinguishing media which shall not Be used for safety reasons : Do not use heavy water stream

Special hazards arising from the Substance or mixture : Under fire conditions, hazardous fumes will be present

Advice for fire-fighters : Wear Self-Contained breathing apparatus, rubber boots and thick rubber Gloves. do not enter fire area without proper protective equipment, including respiratory protection. use water spray or fog for cooling exposed containers Avoid fire –fighting water to enter environment.

6. Accidental Release Measures

Personal Precautions, Protective equipment and emergency procedures:

-For non-emergency Personal : Evacuate unnecessary personnel

- For emergency precautions : equipment cleanup crew with proper protection. Wear suitable Protective clothing gloves and eye or face protection Remove ignition sources.

-Environmental precautions : Contain any spills with dislikes or absorbents to prevent migration and entry into to sewers or streams. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters .

Methods &Material For Contain--ment And cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

Reference to other sections : See heading 8 & 13

7. Handling and Storage

General : Keep away from sources of ignition

Precautions in handling and : Keep away from sources of ignition No naked lights. No smoking. Use only in well ventilated areas, avoid release to the Environment .do not eat drink or smoke when using this product

Wash hands &other exposed areas with soap & waster before Leaving work.

Conditions for safe Storage : Store this product in a dry location where it can be protected from
Including any incompatibilities elements .Store in tightly closed , properly ventilated containers
Away from heat sparks, open flame strong oxidizers, radiations and other initiators
Keep at temperature not exceeding 50°C.

8. Exposure Controls / Personal Protection

Occupational exposure limits values:

Australia	National exposure standards for atmospheric contaminants in the Occupational environment. Time-Weighted Average (normal eight-hour working day for a five-day working week):5 mg m^3 for oil mist, refined mineral. (National Occupational Health & Safety Commission [NOHSC:1003(1995)
Canada	The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned mineral oil mist a threshold limit value (TLV) of 5 mg/m(3) as a Time Weighted Average TWA) for a normal 8-hour workday and a 40-hour workweek and a short-term exposure Limit STEL) of 10 mg/m(3) for periods not to exceed 15 minutes. Exposures at the STEL concentration should not be repeated more than four times a day and should be separated by intervals of at least 60 minutes. [ACGIH 1994, p. 28]
-Eu	Occupational Exposure Standard (OES) of 5 mg/m 8-hour time-weighted average reference period for oil mist.
-USA	The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned mineral oil mist a threshold limit value (TLV) of 5 mg/m(3) as a Time Weighted Average.TWA) for a normal 8-hour workday and a 40-hour workweek and a short-term exposure limit STEL) of 10 mg/m(3) for periods not to exceed 15 minutes. Exposures at the STEL concentration should not be repeated more than four times a day and should be separated by intervals of at least 60 minutes [ACGIH 1994, p. 28]

Occupational Exposure limits

Biological limit values : No data available.

Exposure controls

Individual protection measures, such as personal protective equipment:

- eye / face protection : Chemical goggles or safety glasses (EN 166)
- Skin protection : Wear suitable protective clothing.
- Hand protection : Wear suitable gloves resistant to chemical penetration. (EN 374)
- respiratory protection : : The use of Filtertype A (EN 141) is recommended If exceeding the Occupational Exposure Limit
- Other : Do not wear leather soled shoes.
- Environmental exposure controls: Avoid release to the environment

9. Physical and Chemical Properties

.Physical State	: Liquid
Colour	: Yellow
Order	: Mild
Pour point [°C]	: -15 to -30
Viscosity at 40°C [mm²/s]	: 14 to 29
Density @ 15℃	: 0.87 to 0.89
Flash point [°C]	: 200 to 250
Solubility in water	: Insoluble

10. Stability and Reactivity

Chemical Stability : Stable under normal conditions
Possibility of hazardous reactions : Non under normal conditions
Conditions to avoid : Extremely high or low temperatures
Incomplete material Strong oxidizing agents
Hazardous decomposition products: Non under normal conditions

11. Toxicological Information

-Acute toxicity : Not Specific toxicity data on this Product available
- Irritation : Not expected to be irritant to eyes or skin
Inhalation of fumes or vapours may cause respiratory irritation.
-Corrosivity : No adverse health effects were noted.
-Sensitisation : No sensitization effects known.
- Repeated dose toxicity : No data available.
Carcinogencity : This product Contain mineral oils which are considered to be severely retined and
Not considered to be carcinogenic under IARC All of oils in this product have been
Demonstrated to contain less than 3% extractable by the IP 346 test
Mutagenicity : Not expected to be a mutagenic.
Reproductive toxicity : Not expected to be toxic

<u>Information on likely routes of exposure</u>

-after ingestion : Ingestion may cause nausea, vomiting and diarrhoea.

- after inhalation : Inhalation of vapours may cause respiratory irritation.
- after skincontact : Prolonged or repeated skin contact with the material will remove natural oils and could lead to a dermatitis.
- after eyecontact : Slight eye irritant upon direct contact.

-Symptoms related to the physical, : No adverse health effects were noted.
chemical and toxicological characteristics

-Delayed and immediate effects as well as : No adverse health effects were noted.
chronic effects from short and long- term exposure

-Other toxicological information : No data available

12. Ecological Information

Toxicity : No specific ecotoxicity data on this product available.

Persistence and degradability : Not determined

Bio accumulative potential : .No Data Available

Mobility in soil : It is to be expected small mobility in soil. Some or a few Components may get into the soil and may cause pollution of Ground water Product spreads on the water surface

.Results of PBT and vPvB assessment: Not applicable.

Other adverse effects : May contaminate water supplies.

.13. Disposal Information

Waste Disposal : Dispose in a safe manner in accordance with the local / national
Waste treatment methods : See Directive 2001/118/EC
Waste code European Waste List : 13.02.05 – mineral –based non-chlorinated engine gear Lubricating oils
15.01.10- Packaging containing residues of or contaminated by dangerous Substances.

14. Transport Information

Not regulated

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

-Australian Inventory of Chemical Substances (AICS) : All components are in compliance with chemical notification requirement in Australia.

-Canadian Environmental Protection Act (CEPA) : All components are in compliance with the Canadian Environmental Protection Act (CEPA) and are present on the Domestic Substances List (DSL).

- European Inventory of Existing Commercial Chemical Substances (EINECS) : All components listed

- USA Toxic Substances Control Act (TSCA) : All components of this material are on the US TSCA Inventory or are exempt

- Germany : Water Hazard Class: 1 - low hazard to waters

16. Other Information

Revision Indicators : None

Key to abbreviations and acronyms : ACGIH = American Conference of Industrial Hygienists

Use in the safety data sheet Preparation : CLP= Classification & labelling of substances
EC= European Commission EN= European Norm
IARC = International Agency for research on cancer
IP= International of petroleum ISO = International Organisation for Standardization
NLGI = National Lubricating Grease Institute.
PCA= Polycyclic Aromatics.
TLV- Threashold limit Value
TWA= Time Weighted Average
VG = Viscosity Grade

Key literature references and sources For data : Concawe Report 01/53, Concawe Report 01/54, Concawe Report 05/87
Regulations (EC) No 1907/2006,1272/2008 & 453/2010 of the European Parliament and of the Council

Note

To the best of our knowledge and belief, the information and recommendations provided in this MSDS are correct. We make no warranty whatsoever expressed or implied of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. We do not assume any liability for consequences of the uses of this information since it may be applied under conditions beyond our control or knowledge The information is furnished on the condition that the recipients shall make their own decision as to safety and suitability of the material for their purposes. We will not be responsible for damages of any nature resulting from the use or reliance upon the information and recommendations If you have purchased this product for supply to a third party ,it is your duty to pass on to that third party the information given , it in this Data Sheet. If the third party is not an employer it is his duty to pass the information given in the Data Sheet to the employer of whoever uses or handles this product. It is an employer's duty to advise and instruct his employees handling this product (and others who may be affected) of any hazards described in the Data Sheet and of any precautions , which should be taken to ensure safe handling of the product.

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