



Safety Data Sheet

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SERIOLA 1510

Issue : 01

Date : 30.01.09

PRODUCT LABELS

Labeling (Standard or EU) Not Concern

R phrases : None

S phrases : None

TRANSPORT LABELING: Not applicable

1 Product and company identification

Commercial name : SERIOLA 1510
Chemical Name : Paraffannic long chain hydrocarbons
Synonyms: Hydrocarbons
C.A.S. No.: Not Applicable
Hazchem No.: -
Product application : Heat Transfer Fluid
Company name : Total Lubricants India Ltd.
Address : The Leela Galleria, 3rd Floor
Andheri Kurla Road
Andheri East, Mumbai 400 059
India
Emergency number of the company : + 91 022 66407700
Fax : + 91 022 66407720

2 Composition / information on ingredients

PREPARATION

Chemical Nature : Petroleum-derived severely refined mineral-base product
in which the polycyclic aromatic hydrocarbons (PCA or PAH) content,
measured by IP 346, is less than 3%

Substances contributing to hazards :

Impurities contributing to hazards : Petroleum distillate hydrotreated CAS 64742-46-7 (Xn-R65)... max 18%
None to our knowledge

3 Hazard Identification

Adverse human health effects : his product dose not present adanger of intoxication.

Environmental effects : Don't rejet this product into the environment

physical and chemical hazards :

No specific risk of fire or explosion under normal conditions of use

4 First-aid measures

IN CASE OF SERIOUS MANIFESTATIONS, CALL IN A DOCTOR OR EMERGENCY MEDICAL CARE

Route of exposure :

Inhalation Inhalation of heavy concentrations of vapour, fumes or spray, may cause
mild irritation of the throat.

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Contact with the skin :	Transport the person into fresh air, keep warm and allow to rest. If the skin is exposed to high-pressure spray, the product may enter the human body. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected. Immediately remove all soiled or stained clothing
Contact with the eyes :	Wash the affected area immediately and repeatedly soap and water Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes
Ingestion :	Possible risk of vomiting and diarrhoea Do not induce vomiting to avoid the risk of aspiration into the respiratory tract Give nothing to drink
Aspiration :	If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care

5 Fire-fighting measures

Flash Point :	See section 9
Fire extinguishers :	
- suitable :	Foam, carbon dioxide (CO ₂), powder
- not suitable :	Do not use water jets (stick jets) for extinguishing fire since they could help to spread the flames.
Specific hazards:	Vapor can build explosive mixture with air. Vapor are heavier than air and may spread on th ground to sources of ignition.
Firefighter protection :	Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

6 Accidental release measures

See also heading 8 and 13 Personal protection:	Ensure good ventilation.Remove source of ignition. Do not smoke.
After spillage / leakage - on soil	Surfaces on which the product has been spilled may become slippery Avoid discharge of the material in a stream or sewer or cause ground contamination. recovery by physical means Contain and collect the spilled product with sand or any other inert material. In the even of a major spill, inform the competent authorities if the situation cannot be brought under control rapidly and efficiently.
- on water	Use floating absorbent material to be removed mechanically If the material has been discharged into a stream or a sewer, inform the authorities of the possible presence of floating materials.

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7 Handling and storage

HANDLING

- Technical measures :
 - prevention of user exposure

Provide adequate ventilation in case of the potential formation of vapour, fumes, mist or spray
Take all measures to reduce the risk of exposure, in particular to used or waste product.
Keep away from flammable material : keep away from food and beverages
 - prevention of fire and explosion

Empty containers may contain flammable or explosive vapours
There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product
 - precautions :

Avoid accumulate of these : they are to be disposed off safely after use.
Avoid static electricity build up with connection to earth.

Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example)
 - Safe handling advice :

-Oil leaks in pressure circuits resulting in a fine inflammable spray (the flammability limit for oil mist is depressed when concentration of about 45 g/m3 are reached)
Avoid contact with strong oxidizing agents
Use only hydrocarbon-resistant containers, joints, pipes etc ...

STORAGE

- Technical measures :

Make the necessary arrangements and take all measures to prevent water and ground pollution
- Storage condition :
- Suitable

Store at room temperature, protected against contact with water and moisture, and away from any source of ignition
Keep containers closed when not in use.
Do not store exposed to the elements
- To be avoided

Dangerous reaction with strong oxidizing agents
- Incompatible products :
- Packaging materials :
- Recommended

Use only hydrocarbon - resistant containers, joints, pipes etc
Keep in original containers if possible
Otherwise, transfer all indications on the regulatory label to the new container

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8 Exposure controls / personal protection

Engineering measures : Use the product in well-ventilated premises

When working on enclosed place (tanks, reservoirs..), make sure that the atmosphere is not suffocating and / or wear recommended equipment.

- Control parameters :
 - Occupational exposure limit oil mist : 10 mg/m³, for 15 mins
 oil mist : 5 mg/m³, for 8 hrs

Personal protective equipment

- hand protection Impermeable hydrocarbon-proof gloves
 recommended material : nitrile, neoprene

- Eye protection Goggles, in case of splashing

- Skin and body different hand protector As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums)

Industrial hygiene Don't wear ring, watch or similar thing which will be able to hold the product and may give rise to some skin diseases

Avoid prolonged and repeated contact with the skin, especially with used or waste product

Immediately remove all soiled or stained clothing.

If the product comes in contact with the skin, wash the affected area immediately and repeatedly with soap and water

Use no abrasives, solvents or petroleum spirit

Do not use clothes stained with the product to dry hands

Don't put the product-soaked rags in the pockets of working clothes

Do not eat, drink, or smoke while handling the product

9 Physical and chemical properties

Appearance

- Physical state Liquid

- Colour Yellow to amber

- Odour (*) -

- pH >7.5

- Specific temperature of change in state Not measurable

- Flash Point : >200°C (COC Open Cup)

Auto-ignition temperature : >250°C (ASTM E 659)

Explosion limits > 350°C

Density @ 29.5°C 0.860-0.900 kg/l

Solubility

- in water NIL

- in organic solvents Completely soluble in Hexane

- viscosity @ 40°C 32 cSt

Melting / Freezing Point °C Not applicable

Vapour Pressure at 35°C, 14.7 psi (Normal ATP)

Vapour Density (Air=1) 1

(*) Avoid smelling the product

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10 Stability and reactivity

Stability : The product is stable under normal temperature of storage, handling and use

Dangerous reactions : Not dangerous reaction known under normal conditions of use, to refer to the technical notice

- Conditions to avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity

- Materials to avoid Avoid contact with strong oxidizing agents

Dangerous decomposition products Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO₂, various hydrocarbons, aldehydes and soot

11 Toxicological information

ACUTE TOXICITY/LOCAL EFFECTS

- Inhalation Risk is improbable under normal conditions of use
Inhalation of important concentration of vapour or aerosols may cause irritation of the upper respiratory tract.

- Contact with the skin Risk is improbable under normal conditions of use

- Ingestion If the skin is exposed to high-pressure spray, the product may enter the human organism. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected.

In case of ingestion of small quantities, no important effect observed, in case of ingestion of larger amounts: abdominal pain, diarrhoea, ...

SENSITIZATION

CHRONIC TOXICITY OR LONG-TERM TOXICITY

- Contact with the skin : To our knowledge, the product don't induce sensitization

Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing.

12 Ecological information

Mobility :

- Air : There is a slow loss by evaporation

- Ground : Given its physical and chemical characteristics, the product generally shows little mobility in the ground

- Water : The product is insoluble, it spreads on the surface of the water

Persistence and degradability Experimental data on the finished product are not available
However, the "mineral oil" portion of the virgin product is intrinsically biodegradable.
Particular ingredients may not be biodegradable.

Ecotoxicity ; The virgin product is considered to present no danger for land-growing organisms.
It is considered to present a little danger for aquatic life
no information available for used product



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13 Disposal consideration :

Waste disposal :

Dispose in a safe manner in accordance with local/national regulations
If need be, collection by an authorized waste contractor and regeneration
or incineration in an approved installation

Used packaging disposal

Conform to the regulation in effect

14 Transport information

UN Number :	unregulated
Road(ADR)/Rail(RID)/River(ADNR)	Not restricted for transport
Marine (IMO-IMDG)	Not restricted for transport
Airline (ICAO / IATA)	Not restricted for transport

15 Regulatory information

EUROPEAN REGULATIONS

- EC labeling

- R Phrase(s)	None
- S Phrase(s)	None

16 Other information

This data sheet conforms to standards defined by directive 93/112/EEC

"This Safety Data Sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of our knowledge at the date indicated hereabove.

It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk.

The information given herein in no way dispenses the user from knowing and applying all provisions regulating his or her activity. The user bears sole liability for the precautions required when using the product.

The regulatory texts indicated herein are intended to aid the user to fulfill his obligations. This list is not to be considered complete and exhaustive.

It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned."