

MATERIAL SAFETY DATA SHEET

**1. Identification of Substance :**Product Name : **Transformer Oil**Trade Name : *Chakrol Transformer Oils*

Manufacturer's Name : M/s Sri Rama Lubricants.

Emergency Telephone Numbers: +91 413 2611518
+91 44 2433 2902.

Address: 153/5/2, Manapet Road, Kanniakoil

Pondicherry 607 402,

email id: qcchakrol@chakrol.com

CAS Number (Finished Product) : **64744-53-6.**

Chemical Family: Highly Refined Petroleum Oil.

Product Appearance & Odour: Amber Liquid with

Typical Petroleum Odour.

HAZARD MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health : 1, Flammability : 1 Reactivity : 0

Hazard Rating :Least : 0, Slight : 1., Moderate 2., High : 3., Extreme : 4.**2. Composition & Data on Components :**

Components	CAS No. of Components	Approximate Concentration
1. Die-Electric Oil Mixture	8012 – 95 – 1	N/A Proprietary Mixture.
2. Additives	Not Applicable	N/A Proprietary Mixture.

3. Hazards identification :

Hazards designation

ACUTE EFFECTS:**HEALTH HAZARDS, GENERAL** : No specific health hazard noted.**CHRONIC EFFECTS:****SENSITIZATION** : No known information.**CARCINOGENICITY : IARC:** Not listed ;**OSHA :**Not Regulated ; **NTP:** Not Listed

HEALTH WARNINGS :

INHALATION	:	Oil mist can irritate airways and lungs
SKIN CONTACT	:	Repeated or prolonged contact can result in drying of the skin.
EYE CONTACT	:	Irritating.
INGESTION	:	Can cause stomach ache and Vomiting.

ROUTE OF ENTRY : Inhalation ; Skin and / or eye contact ; Ingestion.**4. First aid measures :**

General information : a. Change clothes and shoes contaminated or soaked by the product.
b. Never put rags contaminated by the product into cloth-pockets.

After inhalation : Provide fresh air, consult a doctor in case of symptoms.
(Eventually by inhaling the overheated product)

After Skin contact : The product is not skin irritating.

After Eye contact : Rinse opened eye for several minutes under running water.

After swallowing : In case of persistent symptoms consult doctor.

5. Fire Fighting measures:Suitable extinguishing agents: CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire-fighting measures that suit the environment. For safety reasons, water is unsuitable extinguishing agent.

Protective equipment :In case of fire fighting, wear self-containing breathing apparatus.

6. Accidental release measures:

Person related safety precautions : Particular danger of slipping on leaked / spilled product.

Measures for environmental protection : Do not allow to enter drainage system, surface or ground water. Prevent from spreading (e.g. by damming-in or oil barriers). Do not allow to enter the ground / soil.

Measures for cleaning / collecting : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, saw dust)

.Dispose of the material collected according to regulations.

Additional information : No dangerous materials are released.

7. Handling and Storage:

Store in clearly marked containers under cover at maximum temperature of 40°C.

Keep away from food and drink.

Local regulations concerning handling and storage of water polluting products have to be followed.

8. Exposure control / Personal Protection:

Eyes : Safety goggles or face shield recommended where operations may cause splash into eyes.

Skin : The use of gloves or suitable barrier creams is recommended where prolonged and repeated contact with the product is inevitable.



Industrial Hygiene : Good working practices and personal hygiene standards should be maintained at all times .

- a. Wash hands after use and always before eating, drinking, smoking and before using the toilet.
- b. Change heavily contaminated clothing as soon as reasonably practicable.
- c. Wash any contaminated underlying skin with soap and water.

9. Physical and chemical properties:

Form	:	Liquid
Colour	:	Light Amber
Flash Point	:	>140 °C ASTM D 92
Self-inflammability	:	Product is not self-igniting
Danger of explosion	:	Product is not explosive
Solubility in / Miscibility with water	:	Not miscible or difficult to mix
Density	:	0.880-0.885 ASTM D 1298
K. Viscosity @ 40 °C	:	< 15.0cst ASTM D 445

10. Stability and reactivity:

Thermal decomposition / conditions to be avoided : No decomposition if used according to specifications.

Dangerous reactions : No dangerous reactions known.

Dangerous products of composition : No dangerous decomposition products known.

11. Toxicological information:

Mild toxicity.

Primary irritant effect

on the skin : No irritant effect known

on the eye : No irritant effect known

Sensitization : No sensitizing effect known

Additional toxicological information :

The product is now subject to classification according to the calculation method of the General EU Classification

Guidelines for Preparations as issued in the latest version :When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological information:

Behavior in environmental systems : No data available

Mobility and bioaccumulation potential : No data available.

Ecotoxic effects : No data available.

Behavior in sewage processing plant :

The products floats in the sewage water on account of its low specific gravity, eventually it is able to pass the conventional collector for light-density material.

13. Disposal consideration:

Products : Small Quantities.

Recommendation

Smaller quantities have to be disposed in line with local legislation.

Un-cleaned packaging :

Recommendation

Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning.

Small one-way packaging have to be disposed accordingly as per prevailing local regulations.

14. Transport information:

Not classified

15. Regulatory information:

Designation according to EU guidelines :

Observe the normal safety regulations when handling chemicals or mineral oil products.

National Regulations : Not applicable

16. Other information:

NFPA HAZARD RATING

HEALTH : Irritation, minor residual injury (1)

FLAMMABILITY : Burns only if pre- heated (1)

REACTIVITY : N/A (0)