

# SHIV DIAL SUD & SONS

Govt. of India Recognized Star Export House

ISO 9001:2015 Certificate No. 1050618090K

## Material Safety Data Sheet

MOBIL OIL RED RIDER 20-40 MSDS

### SECTION 1. IDENTIFICATION

**Product Name :** MOBIL OIL RED RIDER 20-40

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS Label element

**Hazard pictograms :** No Hazard Symbol required

**Signal word :** No signal word

Hazard statements

#### PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

#### HEALTH HAZARDS:

Not classified as a health hazard under GHS criteria.

#### ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under GHS criteria.

#### Precautionary statements :

**Prevention:** No precautionary phrases.

**Response:** No precautionary phrases.

**Storage:** No precautionary phrases.

**Disposal:** No precautionary phrases

#### Other hazards which do not result in classification

Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Used oil may contain harmful impurities. Not classified as flammable but will burn.

The classification of this material is based on OSHA HCS 2012 criteria.

Under normal conditions of use or in a foreseeable emergency, this product does not meet the definition of a hazardous chemical when evaluated according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature:** Highly refined mineral oils and additives. The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

Contains one or more of the following CAS-numbers: 6474253-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0, 68037-01-4, 72623-86-0, 72623-87-1, 8042-47-5, 848301-699.

#### Hazardous components

Chemical Name	Synonym	CAS-No.	Concentration (%)
Polyolefin Amide Alkeneamine Polyol		Not Assigned	1 – 3
Alkaryl amine		Not Assigned	1 – 3
Interchangeable low viscosity base oil (<20,5 cSt @40°C)		Not Assigned	0 - 90

### SECTION 4. FIRST-AID MEASURES

**General advice :** Not expected to be a health hazard when used under normal conditions

**If inhaled :** No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

**In case of skin contact :** Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

**In case of eye contact :** Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.

**If swallowed :** In general no treatment is necessary unless large quantities are swallowed, however, get medical advice

Most important symptoms and effects, both acute and delayed : Oil acne/folliculitis signs and symptoms may include formation of black pustules and spots on the skin of exposed areas. Ingestion may result in nausea, vomiting and/or diarrhea.

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**Protection of first-aiders :** When administering first aid, ensure that you are wearing the.

## SECTION 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media :** Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable extinguishing media :** Do not use water in a jet

**Specific hazards during firefighting :** Hazardous combustion products may include:

A complex mixture of airborne solid and liquid particulates and gases (smoke).

Carbon monoxide may be evolved if incomplete combustion occurs.

Unidentified organic and inorganic compounds.

**Specific extinguishing methods :** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special protective equipment for firefighters :** Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid contact with skin and eyes.

**Environmental precautions :** Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Local authorities should be advised if significant spillages cannot be contained

Methods and materials for containment and cleaning up : Slippery when spilt. Avoid accidents, clean up immediately

Prevent from spreading by making a barrier with sand, earth or other containment material.

Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly.

**Additional advice :** For guidance on selection of personal protective equipment see Chapter 8 of this Safety Data Sheet.

For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet

## SECTION 7. HANDLING AND STORAGE

**Technical measures :** Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosol

Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

**Precautions for safe handling :** Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists.

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

**Avoidance of contact :** Strong oxidising agents

**Product Transfer :** This material has the potential to be a static accumulator. Proper grounding and bonding procedures should be used during all bulk transfer operations.

### Storage

**Other data :** Keep container tightly closed and in a cool, well-ventilated place.

Use properly labeled and closable containers.

Store at ambient temperature.

**Packaging material :** Suitable material: For containers or container linings, use mild steel or high density polyethylene.

**Unsuitable material:** PVC

**Container Advice :** Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion

## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Oil mist, mineral	Not Assigned	TWA ((inhalable fraction))	5 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values

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		(Mist)	5 mg/m <sup>3</sup>	OSHA_TRANS
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## Biological occupational exposure limits

No biological limit allocated

## Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory. Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available. National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods <http://www.cdc.gov/niosh/> Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods <http://www.osha.gov/> Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances <http://www.hse.gov.uk/> Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA), Germany <http://www.dguv.de/inhalt/index.jsp> L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

**Engineering measures :** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate ventilation to control airborne concentrations.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated

## General Information:

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product. Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation. Drain down system prior to equipment break-in or maintenance. Retain drain downs in sealed storage pending disposal or subsequent recycle. Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## Personal protective equipment

**Respiratory protection :** No respiratory protection is ordinarily required under normal conditions of use

In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If engineering controls do not maintain airborne Concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapours [Type A/Type P boiling point >65°C (149°F)].

## Hand protection Remarks :

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended. For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model.

**Eye protection :** If material is handled such that it could be splashed into eyes, protective eyewear is recommended.

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**Skin and body protection :** Skin protection is not ordinarily required beyond standard work clothes. It is good practice to wear chemical resistant gloves

**Protective measures :** Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

## **Environmental exposure controls**

**General advice :** Take appropriate measures to fulfill the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Chapter 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	:	Liquid at room temperature.
<b>Colour</b>	:	Red
<b>Odour</b>	:	Slight hydrocarbon
<b>Odour Threshold</b>	:	Data not available
<b>pH</b>	:	Not applicable
<b>pour point</b>	:	-42 °C / -44 °F Method: ASTM D97
<b>Initial boiling point and boiling range</b>	:	> 280 °C / 536 °F estimated value(s)
<b>Flash point</b>	:	>= 230 °C / >= 448 °F
<b>Method</b>	:	ASTM D92
<b>Evaporation rate</b>	:	Data not available
<b>Flammability (solid, gas)</b>	:	Data not available
<b>Upper explosion limit</b>	:	Typical 10 %(V)
<b>Lower explosion limit</b>	:	Typical 1 %(V)
<b>Vapour pressure</b>	:	< 0.5 Pa (20 °C / 68 °F) estimated value(s)
<b>Relative vapour density</b>	:	> 1 estimated value(s) Relative density 0.863 (15 °C / 59 °F)
<b>Density</b>	:	863 kg/m <sup>3</sup> (15.0 °C / 59.0 °F) Method: Unspecified
<b>Solubility(ies) Water solubility</b>	:	negligible
<b>Solubility in other solvents</b>	:	Data not available
<b>Partition coefficient: noctanol/water</b>	:	Pow: > 6 (based on information on similar products)
<b>Auto-ignition temperature</b>	:	> 320 °C / 608 °F
<b>Viscosity Viscosity, dynamic</b>	:	Data not available
<b>Viscosity, kinematic</b>	:	63.4 mm <sup>2</sup> /s (40.0 °C / 104.0 °F) Method: ASTM D445 10.6 mm <sup>2</sup> /s (100 °C / 212 °F) Method: ASTM D445
<b>Conductivity</b>	:	This material is not expected to be a static accumulator
<b>Decomposition temperature</b>	:	Data not available

## **SECTION 10. STABILITY AND REACTIVITY**

**Reactivity :** The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph

**Chemical stability :** Stable

**Possibility of hazardous reactions :** Reacts with strong oxidising agents

**Conditions to avoid:** Extremes of temperature and direct sunlight

**Incompatible materials :** Strong oxidising agents

**Hazardous decomposition products :** Hazardous decomposition products are not expected to form during normal storage

## **SECTION 11. TOXICOLOGICAL INFORMATION**

**Basis for assessment :** Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Information on likely routes of exposure

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Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute toxicity

**Product:**

**Acute oral toxicity:** LD50 (rat): > 5,000 mg/kg Remarks: Expected to be of low toxicity:

**Acute inhalation toxicity :** Remarks: Not considered to be an inhalation hazard under normal conditions of use.

**Acute dermal toxicity :** LD50 (Rabbit): > 5,000 mg/kg Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

**Product:**

**Remarks:** Expected to be slightly irritating., Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis.

Serious eye damage/eye irritation

**Product:** Remarks: Expected to be slightly irritating.

Respiratory or skin sensitisation

**Product: Remarks:** Not expected to be a skin sensitiser.

Germ cell mutagenicity

**Product: Remarks:** Not considered a mutagenic hazard.

**Carcinogenicity**

**Product:**

**Remarks:** Not expected to be carcinogenic

**Remarks:** Product contains mineral oils of types shown to be non-carcinogenic in animal skinpainting studies., Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

**IARC :** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH :**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA :** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP :** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

**Product:**

**Remarks:** Not expected to impair fertility., Not expected to be

STOT - single exposure

**Product:** Remarks: Not expected to be a hazard.

STOT - repeated exposure

**Product:** Remarks: Not expected to be a hazard.

Aspiration toxicity

**Product:** Not considered an aspiration hazard.

Further information

**Product:** Remarks: Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal., ALL used oil should be handled with caution and skin contact avoided as far as possible.

**Remarks:** Continuous contact with used engine oils has caused skin cancer in animal tests.

**Remarks:** Slightly irritating to respiratory system.

**SECTION 12. ECOLOGICAL INFORMATION**

**Basis for assessment :** Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).(LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).

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## Ecotoxicity

### Product:

**Toxicity to fish (Acute toxicity) :** Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l

Toxicity to daphnia and other aquatic invertebrates (Acute toxicity) : Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l

**Toxicity to algae (Acute toxicity) :** Remarks: Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l

**Toxicity to fish (Chronic toxicity) :** Remarks: Data not available

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :** Remarks: Data not available

**Toxicity to bacteria (Acute toxicity) :** Remarks: Data not available

Persistence and degradability

### Product:

**Biodegradability :** Remarks: Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but contains components that may persist in the environment.

Bioaccumulative potential

### Product:

**Bioaccumulation :** Remarks: Contains components with the potential to bioaccumulate.

Mobility in soil

### Product:

**Mobility :** Remarks: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile.

**Remarks:** Floats on water.

Other adverse effects

no data available

Product: Additional ecological information: Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential. Poorly soluble mixture. May cause physical fouling of aquatic organisms.

Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

**Waste from residues :** Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment. Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

**Contaminated packaging :** Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

## SECTION 14. TRANSPORT INFORMATION National Regulations

**LAND (DOT):** Not Regulated for Land Transport

**LAND (TDG):** Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

**AIR (IATA):** Not Regulated for Air Transport

## SECTION 15. REGULATORY INFORMATION

**OSHA Hazards :** No OSHA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ., Shell classifies this material as an "oil" under the CERCLA Petroleum Exclusion, therefore releases to the environment are not reportable under CERCLA.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

**SARA 302 :** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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**SARA 313 :** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

**EINECS :** All components listed or polymer exempt.

**TSCA :** All components listed.

**DSL :** All components listed

## **Section 16: Other Information**

Other Special Considerations: Not available.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.*



For Shiv Dial Sud & Sons

A handwritten signature in blue ink, appearing to read "Shalby".

(Authorized Signatory)

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## Material Safety Data Sheet

### MOBIL OIL GREEN CASTROL 2T MSDS

#### Section 1: Chemical Product and Company Identification

**Product Name:** MOBIL OIL GREEN CASTROL 2T

**CAS#:** 8001-79-4

**CI#:** Not available.

**Synonym:**

**Chemical Name:** MOBIL OIL GREEN CASTROL 2T

**Chemical Formula:** Not available.

#### Section 2: Composition and Information on Ingredients

**Composition:**

**Name CAS # % by Weight**

Castor oil 8001-79-4 100

**Toxicological Data on Ingredients:** Not applicable.

#### Section 3: Hazards Identification

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

#### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**Skin Contact:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Serious Skin Contact:** Not available.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar,

ie, belt or waistband.

**Serious Ingestion:** Not available.

#### Section 5: Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** 449°C (840.2°F)

**Flash Points:** OPEN CUP: 230°C (446°F).

**Flammable Limits:** Not available.

**Products of Combustion:** Not available.

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## **Fire Hazards in Presence of Various Substances:**

Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

## **Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

## **Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## **Section 6: Accidental Release Measures**

**Small Spill:** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

### **Large Spill:**

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water

on the contaminated surface and allow to evacuate through the sanitary system.

## **Section 7: Handling and Storage**

### **Precautions:**

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas/fumes/ vapor/spray.

### **Storage:**

Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F). Prevent from freezing.

## **Section 8: Exposure Controls/Personal Protection**

### **Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Safety glasses. Lab coat.

### **Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## **Section 9: Physical and Chemical Properties**

**Physical state and appearance:** Liquid.

**Odor:** Characteristic. (Slight.)

**Taste:** Acrid. Nauseating. (Slight.)

**Molecular Weight:** Not available.

**Color:** Not available.

**pH (1% soln/water):** Not applicable.

**Boiling Point:** 313°C (595.4°F)

**Melting Point:** Not available.

**Critical Temperature:** Not available.

**Specific Gravity:** 0.962 @ 15 C (Water = 1)

**Vapor Pressure:** Not available.

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**Vapor Density:** Not available.

**Volatility:** Not available.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water, methanol, diethyl ether.

**Solubility:**

Soluble in methanol, diethyl ether, chloroform, glacial acetic acid, benzene, carbon disulfide. Insoluble in cold water.

**Section 10: Stability and Reactivity Data**

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat, incompatible materials

**Incompatibility with various substances:** Not available.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:**

Has excellent keeping qualities. Does not turn rancid unless subjected to excessive heat. Should be protected from freezing.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

**Section 11: Toxicological Information**

**Routes of Entry:** Absorbed through skin. Eye contact.

**Toxicity to Animals:**

LD50: Not available. LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:** Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Ingestion: May cause digestive tract irritation. It is considered a purgative and stimulates smooth muscle of the digestive tract. Inhalation: Mist may cause respiratory tract irritation.

**Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

**Section 13: Disposal Considerations**

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

**Section 14: Transport Information**

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

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**Special Provisions for Transport:** Not applicable.

## **Section 15: Other Regulatory Information**

**Federal and State Regulations:** TSCA 8(b) inventory: Castor oil

**Other Regulations:** EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### **Other Classifications:**

**WHMIS (Canada):** Not controlled under WHMIS (Canada).

### **DSCL (EEC):**

This product is not classified according to the EU regulations. Not applicable.

### **HMIS (U.S.A.):**

**Health Hazard:** 1

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** a

**National Fire Protection Association (U.S.A.):**

**Health:** 0

**Flammability:** 1

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Not applicable. Lab coat. Not applicable. Safety glasses.

## **Section 16: Other Information**

**Other Special Considerations:** Not available.

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use*



**For Shiv Dial Sud & Sons**

A handwritten signature in blue ink that appears to read "Shivaly".

**(Authorized Signatory)**

# SHIV DIAL SUD & SONS

Govt. of India Recognized Star Export House

ISO 9001:2015 Certificate No. 1050618090K

## Material Safety Data Sheet

MSDS MOBIL OIL RIDER 4T 20-40 PREMIUM YELLOW

**1. Product identifier** MOBIL OIL RIDER 4T 20-40 PREMIUM YELLOW

**Viscosity Grade** SAE 20W-40

Relevant identified uses of the 4 stroke motorcycle engine oil.

Substance or mixture and uses advised against This oil should not be used for any other purpose than the intended use as a 4-stroke motorcycle oil without expert advice.

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture** : Not classified as dangerous under EC criteria.

**Most important adverse physico chemical effects** : Combustible liquid

**Most important adverse human health effects** : Sensitizing substances; allergic reactions possible

**Most important adverse environmental effects** : R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Label elements:

**Safety advices** : Contains calcium long chain alkaryl sulphonate. May produce an allergic reaction. Do not empty into drains; dispose of this material and its container in a safe way.

**Other hazards** : During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. Avoid prolonged contact with used motor oil. Over exposure to oil mist may cause respiratory irritations. Oil mist deposited on surfaces may cause slip hazard.

## COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization** : Mixture of highly refined mineral oils and additives. (PCA-content < 3% - IP 346)

### Composition of the mixture:

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Zinc alkyl dithiophosphate	: 0.58 - 1.08 %	68649-42-3	272-028-3	----	----	Xi; R41 N; R51-53
calcium long chain alkaryl sulphonate	: 0.63 - 1.17 %	90194-27-7	290-636-7	----	----	R43 R53
Polyolefine polyamine succinimide, Polyol	: 0.92 - 1.71 %	----	----	----	POLYMER	R53
Calcium branched chain alkyl phenate sulfide	: 0.38 - 0.72 %	90480-91-4	291-829-9	----	----	R53
Polyolefine polyaminesuccinimide, molybdene complex	: 0.097 - 0.18 %	----	----	----	----	R53

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Branched alkylphenol and calcium branched alkylphenol	: 0.048 - 0.09 %	----	----	----	----	Repr. Cat. 2; R60 Xi; R36/38 N; R50-53
Propylene pentamer	: 0.014 - 0.027 %	15220-87-8	----	----	----	Xn; R65 Xi; R38 N; R51-53

## 4. FIRST AID MEASURES

### Description of first aid measures:

**After inhalation** : Assure fresh air breathing. If you feel unwell, seek medical advice.

**After contact with skin**: Wash skin thoroughly with mild soap and water. Remove contaminated clothing and shoes. Never use kerosene gasoline for cleaning the skin

**After contact with the eyes** : 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 and effects, both acute and delayed : Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision

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**Indication of any immediate medical :** The ingestion of lubricating oils is an unlikely event. No specific therapy is indicated in view of attention and special treatment needed the very low toxicity of the base oil(s) and other components. Treat with supportive measures as appropriate to the patient's condition

## 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 :

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

Advice for firefighters: 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 personnel :** Evacuate unnecessary personnel.

**For emergency responders :** Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eye or face protection. Remove ignition sources.

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

**Methods and material for containment :** Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable and cleaning up disposal containers.

**Reference to other sections :** See Heading 8 &

## 7. HANDLING AND STORAGE

Precautions for safe handling: 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 and other exposed areas with soap and water before leaving work.

Conditions for safe storage, including any incompatibilities : Store this product in a dry location where it can be protected from the 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.

**Specific end use(s) :** 4 stroke motorcycle engine oil.

This oil should not be used for any other purpose than the intended use as a 4-stroke motorcycle oil without expert advice.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational exposure limit 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<sup>3</sup> 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]

Occupational Exposure Standard (OES) of 5 mg/m<sup>3</sup>,

**EU :** 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]

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Occupational Exposure Limits

**Biological limit values:** No data

Appropriate engineering controls Individual protection measures, such as personal protective equipment: Provide adequate ventilation to minimize dust and/or vapor concentrations.

**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 Filter type A (EN141) is recommended If exceeding the Occupational Exposure Limit

**Others :** Do not wear leather soled shoes

Environmental exposure controls : Avoid release to the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

- physical state	: Oily liquid.
- colour	: Yellow-brown.
- odour	: Light odour of petroleum.
- flash point	: 231°C
- density @ 15°C	: 895.4 kg/m <sup>3</sup>
- solubility in water	: Insoluble.
- viscosity @ 100°C	: 14.5 cSt
- pour point	: -24°C
Other information	: See Product Data Sheet for detailed information

## 10. STABILITY AND REACTIVITY

**Reactivity :** No data available

Chemical stability : Stable under normal conditions. None

Possibility of hazardous reactions : None under normal conditions.

**Conditions to avoid :** Extremely high or low temperatures.

**Incompatible materials :** Strong oxidizing agents.

**Hazardous decomposition products :** None under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects:**

**Acute toxicity :** No specific toxicity data on this product available.

**Irritation :** Not expected to be an irritant to eyes or skin. Inhalation of fumes or vapours may cause respiratory irritation.

**Corrosivity :** No adverse health effects were noted.

**Sensitization :** Repeated exposure may cause sensitization due to an allergic reaction of the skin.

**Repeated dose toxicity :** No data available

**Carcinogenic it :** This product contains mineral oils **which reconsidered** to be **severely refined** and not **considered to be carcinogenic** under IARC. All of the oils in this product **have been** demonstrated to contain less than 3% **extractable** by the IP 346 test.

**Mutagen city :** Not expected to be mutagenetic.

**Reproductive toxicity :** Not expected to be toxic.

Information on likely routes of exposure:

**After ingestion :** Ingestion may cause nausea, vomiting and diarrhoea.

**After inhalation :** Prolonged or repeated skin contact with the material will remove natural oils and could lead to dermatitis.

**After eyecontact :** Slight eye irritant upon direct contact.

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

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

Other toxicological information : No data

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## 12. ECOLOGICAL INFORMATION

**Toxicity :** No Specific ecotoxicity data on this product available

**Persistence and degradability :** Major components are inherently biodegradable.

**Bioaccumulative potential :** Not determined.

**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 groundwater. Product spreads on the water surface

**Results of PBT and vPvB assessment:** Not applicable

**Other adverse effects :** May contaminate water supplies

## 13. DISPOSAL CONSIDERATIONS.

**Waste treatment methods :** Dispose in a safe manner in accordance with local/national regulations. See Directive 2001/118/EC

**Waste Code European Waste List :** 13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils. 1501 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) :** One or more components have been notified but may not be listed in the AICS.

**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.

**Water Hazard Classification (Germany) :** Water Hazard Class: 1 – low hazard to water.

**Chemical safety assessment :** Not

**Section 16: Other Information**

**Other Special Considerations:** Not available.

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For Shiv Dial Sud & Sons

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(Authorized Signatory)