



MATERIAL SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Product name :

RUBIA MINI 15W-40

Issue : 01

Version of : 2012-02-13

Revision date : None

PRODUCT LABELS

Labelling (Standard or EU) Not Concern

R phrases : None

S phrases : None

TRANSPORT LABELLING: Not applicable

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Commercial name : RUBIA MINI 15W-40
 Chemical Name : Paraffinic long chain hydrocarbons
 Synonyms: Hydrocarbons
 C.A.S. No.: Not Applicable
 Hazchem No.: -
 Pure substance / mixture : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Engine oil

1.3. Details of the supplier of the safety data sheet

Supplier : TOTAL OIL INDIA PVT. LTD., Lubricants Division
 The Leela Galleria, 3rd Floor
 Andheri Kurla Road
 Andheri East, Mumbai 400 059
 India

For further information, please contact

Contact Point HSE

E-mail Address

Emergency telephones : + 91 022 66407700

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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 : Petroleum distillate hydro treated CAS 64742-46-7 (Xn-R65)... max 18%

Impurities contributing to hazards : None to our knowledge

| Chemical Name | EC No. | REACH registration no. | CAS-No | Weight % | Classification (Dir. 67/548) | Classification (Reg. 1272/2008) |
|------------------------------------------------------|--------|------------------------|---------------------------|----------|------------------------------|---------------------------------|
| zinc dialkyl dithiophosphate | | | 68649-42-3 | <1.25 | Xi;R36/38 | |
| branched alkyl phenol, calcium branched alkyl phenol | | | 74499-35-7 132752-19-3 | <0.2 | | |

3. HAZARDS IDENTIFICATION**REGULATION (EC) No 1272/2008**For the full text of the H-Statements mentioned in this Section, see Section *Label Elements***DIRECTIVE 67/548/EEC or 1999/45/EC**

For the full text of the R-phrases mentioned in this Section, see Section 16

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC

Symbol(s)

Not Classified

3.2. Other hazards

Adverse human health effects : This product dose not present danger of intoxication.

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

Physical-Chemical Properties No specific risk of fire or explosion under normal conditions of use

4. FIRST AID MEASURES**4.1. Description of first-aid measures**

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

Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

| | |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact | Remove contaminated clothing and shoes, Wash off with soap and water, Wash contaminated clothing before reuse |
| Inhalation | Move to fresh air |
| Ingestion | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------|--------------------------------------------------------------------------------------------------------|
| Eye contact | Not classified. |
| Skin contact | Not classified |
| Inhalation | Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

4.3. Indication of immediate medical attention and special treatment needed, if necessary

| | |
|--------------------|-----------------------|
| Notes to physician | Treat symptomatically |
|--------------------|-----------------------|

5. FIRE-FIGHTING MEASURES

Flash Point : See section 9

5.1. Extinguishing media :

Suitable Extinguishing Media Foam, carbon dioxide (CO₂), powder

Unsuitable Extinguishing Media

Do not use water jets (stick jets) for extinguishing fire since they could help to spread the flames.

5.2. Special hazards arising from the substance or mixture

Specific hazards:

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Combustion products include sulphur oxides (SO₂ and SO₃) and Hydrogen sulphide H₂S, Mercaptans.

5.3. Advice for fire-fighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit

Other information

Cool containers / tanks with water spray, Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations



6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General Information

Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition

6.2. Environmental precautions

General Information

Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up

Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Personal Protective Equipment

See Section 8 for more detail

Waste treatment

See section 13

7. HANDLING AND STORAGE

7.1. Precautions for safe 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

Avoid accumulate of these : they are to be disposed off safely after use.

Precautions :

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)

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 ...

7.2. Conditions for safe storage, including any incompatibilities

Technical measures :
 Storage condition :
 Incompatible products :
 Packaging materials :

Make the necessary arrangements and take all measures to prevent water and ground pollution
 - 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.
 - To be avoided
 Do not store exposed to the elements
 Dangerous reaction with strong oxidizing agents
 - 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

7.3. Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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

8.2. Exposure controls

Occupational Exposure Controls
 Engineering measures :
 Personal protective equipment
 General Information
 Respiratory protection
 Eye Protection
 Skin and body protection
 Hand Protection

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.
 If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers, These recommendations apply to the product as supplied
 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate. (EN 141). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.
 If splashes are likely to occur, wear, Safety glasses with side-shields
 Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing
 Hydrocarbon-proof gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.



Industrial hygiene
 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

9.1. Information on basic physical and chemical properties

Appearance : limpid
 Color : brown
 Physical State @20°C : Liquid
 Odor : No information available

| <u>Property</u> | <u>Values</u> | <u>Remarks</u> | <u>Method</u> |
|-------------------------------------------|-------------------------|-----------------------------------------|---------------|
| pH | | Not applicable | |
| Boiling point/boiling range | | Not applicable | |
| Flash point | > 205 °C | | ASTM D 93 |
| | > 401 °F | | ASTM D 93 |
| Evaporation rate | | No information available | |
| Flammability Limits in Air | | No information available | |
| Vapor Pressure @ 20° C | | No information available | |
| Vapor density | | | |
| Density | 872 kg/m ³ | @ 15 °C | |
| Water solubility | | Insoluble | |
| Solubility in other solvents | | Soluble in many common organic solvents | |
| logPow | | | |
| Auto ignition temperature | | No information available | |
| Viscosity, kinematic | 14.2 mm ² /s | @ 100 °C | ISO 3104 |
| Explosive properties | | Not explosive | |
| Oxidizing Properties | | Not applicable | |
| Possibility of hazardous reactions | | Not applicable | |
| 9.2. Other information | | | |
| Pour point | < -24 °C | | ASTM D 97 |

10. STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stability Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing

10.4. Conditions to Avoid

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

10.5. Incompatible Materials

Materials to Avoid Acids, Oxidizing agents, Halogens

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot, Sulphur oxides, Hydrogen sulphide, Mercaptans.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects, Product Information

| | |
|--------------|--------------------------------------------------------------------------------------------------------|
| Skin contact | Not classified. |
| Eye contact | Not classified |
| Inhalation | Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. |
| Ingestion | Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Acute toxicity Component Information

| Chemical Name | LD 50 ORAL | LD 50 DERMAL | LC 50 INHALATION |
|---------------|------------|--------------|------------------|
| none | | | |

Sensitization

Sensitization Not classified as a sensitizer

Specific effects

Carcinogenicity

This product is not classified carcinogenic. During use in engines, contamination of oil with low levels of 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.

Mutagenicity

This product is not classified as mutagenic.

Reproductive toxicity

This product does not contain any known or suspected reproductive hazards.

Repeated Dose Toxicity

Sub chronic toxicity

No information available.

Target Organ Effects (STOT)

Target Organ Effects (STOT)

No information available

Other information

Other adverse effects

Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

12. ECOLOGICAL INFORMATION**12.1. Toxicity**

Not classified.

Acute aquatic toxicity Product Information

No information available

Acute aquatic toxicity Component Information

| Chemical Name | Toxicity to algae | Toxicity to daphnia and other aquatic invertebrates | Toxicity to fish | Toxicity to microorganisms |
|---------------|-------------------|-----------------------------------------------------|------------------|----------------------------|
| none | | | | |

Chronic aquatic toxicity Product Information

No information available.

Chronic aquatic toxicity Component Information

No information available.

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

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.

12.3. Bio accumulative potential (Please check table info)

Product Information

No information available

logPow

Component Information

| Chemical Name | log pow |
|---------------|---------|
| none | |

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

No information available

12.6. Other adverse effects

General Information

No information available.

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

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Waste from Residues / Unused

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Products :

Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a used oil collection location. Incorrect disposal of used oil endangers the environment. Every mixture with foreign substances such as solvents, brake- and cooling liquids is forbidden.

Contaminated packaging :

Empty containers should be taken to an approved waste handling site for recycling or disposal

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

International Inventories

EINECS/ELINCS -

TSCA -

DSL -

ENCS -

IECSC -

KECL -

PICCS -

AICS -

NZIoC -

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical Safety Assessment

EUROPEAN REGULATIONS

- EC labelling

- R Phrase(s) None

- S Phrase(s) None

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R41 - Risk of serious damage to eyes

R38 - Irritating to skin

R62 - Possible risk of impaired fertility

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/38 - Irritating to eyes and skin

Full text of H-Statements referred to under section 2 and 3

H411 - Toxic to aquatic life with long lasting effects

H318 - Causes serious eye damage

H315 - Causes skin irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

Abbreviations, acronyms

Legend Section 8

Legend Section 8

| | | | |
|----|------------------|----|--------------------|
| + | Sensitizer | * | Skin designation |
| ** | Hard designation | C: | Carcinogen |
| M: | Mutagen | R: | Toxic reproduction |

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 knowledge at the date indicated above. 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 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 fulfil 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.

End of the safety datasheet