



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

Product name :

MOTO 4 PRO 20W 40

Issue : 01

Version of : 2012-02-13

Revision date : None

MOTO 4 PRO TECH

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

Product name : MOTO 4 PRO 20W 40
 Number
 Hazchem No.: -
 Pure substance / mixture : Mixture

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

Identified uses Motor oil - 4 stroke.

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. HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture****REGULATION (EC) No 1272/2008***For the full text of the H-Statements mentioned in this Section, see Section 2.2.***Classification****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

2.2. Label elements

Labelled according to: Directive 1999/45/EC

Contains Long chain alkylamine. May produce an allergic reaction.

2.3. Other hazards**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery**Environmental properties** Should not be released into the environment**Properties Affecting Health** May produce an allergic reaction.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	EC No.	REACH registration no.	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Zinc alkyldithiophosphate	272-028-3	no data available	68649-42-3	<1.5	Xi;R36 N;R51-53	
magnesium long chain alkyl aryl sulfonate		no data available		<1.0		

Organo molybdenum amide	no data available	<1	N;R51-53
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Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

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
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5. FIRE-FIGHTING MEASURES

Flash Point : See section 9

5.1. Extinguishing media :

Suitable Extinguishing Media	Foam, carbon dioxide (CO ₂), powder, Water spray or fog
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire

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.

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

6.2. Environmental precautions

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

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up Keep in suitable, closed containers for disposal. Dam up. Soak up with inert absorbent material.

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

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion

Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into work wear pockets.

7.2. Conditions for safe storage, including any incompatibilities**Technical measures/Storage****conditions**

Keep away from food, drink and animal feeding stuffs. Keep in a bonded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid

Strong oxidizing agents

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 :

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.

Personal protective equipment

General Information

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

Respiratory protection

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

Eye Protection

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved

Hand Protection

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.

**Environmental exposure controls**

General Information

The product should not be allowed to enter drains, water courses or the soil

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Color

Red

Physical State @20°C

Liquid

Odor

Characteristic

Property**Values****Remarks****Method**

pH

Not applicable

Boiling point/boiling range

Not applicable

Flash point

> 220 °C

> 428 °F

Cleveland Open Cup (COC)

Cleveland Open Cup (COC)

Evaporation rate

No information available

Flammability Limits in Air

No information available

Vapor Pressure @ 20° C

No information available

Vapor density

Density

855 kg/m³ @ 15

@ 15 °C

Water solubility

Not applicable

Solubility in other solvents

No information available

Zinc alkylidithiophosphat e 68649-42-3	EC50 (48h) 1 - 1.5 mg/L Daphnia magna	LC50 (96h) 1.0-5.0 mg/L Pimephales promelas (static) LC50 (96h) 10.0- 35.0 mg/L Pimephales promelas (semi- static)
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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

No data is available on the product itself. However the "mineral oil" fraction of the new product is inherently biodegradable.

12.3. Bio accumulative potential (Please check table info)**Product Information**logPow
Component Information
No information available
> 6 @ 20 °C. .**12.4. Mobility in soil**

Mobility :

- Ground :

Given its physical and chemical characteristics, the product generally shows low soil mobility.

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.

13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**Waste from Residues / Unused
Products :

Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. 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
The following Waste Codes are only suggestions: 13 02 05.

EWC Waste Disposal No.

Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATIONUN 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 -**

LegendEINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical SubstancesTSCA - United States Toxic Substances Control Act Section 8(b) InventoryDSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances ListENCS - Japan Existing and New Chemical SubstancesIECSC - China Inventory of Existing Chemical SubstancesKECL - Korean Existing and Evaluated Chemical SubstancesPICCS - Philippines Inventory of Chemicals and Chemical SubstancesAICS - Australian Inventory of Chemical SubstancesNZIoC - 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

R35 - Causes severe burns

R50 - Very toxic to aquatic organisms

R22 - Harmful if swallowed

R34 - Causes burns

R43 - May cause sensitization by skin contact

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

R23/24 - Toxic by inhalation and in contact with skin

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

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 data sheet