



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

Product name :

QUARTZ 3000 20W50

Issue : 01

Version of : 2012-02-13

Revision date : None

**PRODUCT LABELS**

LABELLING (standard or EU): Concerned  
 R-phrases : R-52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 S-phrases : S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.  
 TRANSPORT LABELLING: Not applicable.

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

Product name : QUARTZ 3000 20W50  
 Number  
 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  
 Fax : + 91 022 66407720

**2. HAZARDS IDENTIFICATION**

**Physical-Chemical Properties** No special risk of fire or explosion under normal conditions of use  
**Environmental properties** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Do not discharge this product into the environment.  
**Health effects :** This product does not present a danger of intoxication.

**3. 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 presenting a health hazard	EC No.	CAS-No	Content	Symbol(s)	R-phrases
Zinc alkyldithiophosphate	272-028-3	68649-42-3	<1.5	Xi; N	Xi;R36 N;R51-53
magnesium long chain alkyl aryl sulfonate			<1.0		
Organo molybdenum amide			<1	N	N;R51-53

See section 16 for explanations of R-phrases :

**4. FIRST AID MEASURES**

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Inhalation :	Inhalation of heavy concentrations of vapour, fumes or spray, may cause mild irritation of the throat. Transport the person into fresh air, keep warm and allow to rest.
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
Skin contact :	Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water.
Eye contact :	Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes.
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

**5.1. Extinguishing media :**

Suitable Extinguishing Media	Foam, carbon dioxide (CO <sub>2</sub> ), powder.
Unsuitable Extinguishing Media	Do not use water jets (stick jets) for extinguishing fire, as this may help the spread of 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. Vapours can build explosive mixtures with air. Vapours are heavier than air and may spread on the ground to sources of ignition.
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**5.3. Advice for fire-fighters**

Special protective equipment for fire-fighters	Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.
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Other information	All combustion residues and contaminated water from fire-fighting should be disposed of according to local regulations.
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**6. ACCIDENTAL RELEASE MEASURES**

See sections 8 and 13.

Personal protection :	Ensure good ventilation. Remove sources of ignition. Do not smoke.
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After spillage / leakage :	- On land: Surfaces On which the product has been spilled may become slippery. Do not allow the product to enter sewers or rivers or contaminate the soil. Recover with mechanical means such as pumps and skimmers. - On water: Floating absorbent material, then mechanical recovery. If the product is spilt into rivers or sewers, notify the authorities of the possible presence of surface effluent
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**7. HANDLING AND STORAGE**

**HANDLING :**

Prevention of user exposure :	Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk. Make all the necessary arrangements in order to reduce exposure risk, notably to products in use or to wastes. Keep away from combustible substances; keep away from food and beverages.
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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 accumulation of these: they are to be disposed off safely after use.
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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).
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**STORAGE :**

Technical measures :	Make the necessary arrangements to prevent water and soil pollution.
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Storage precautions :	- Suitable: Store at ambient temperature, protected against contact with water and moisture, and away from any source of ignition. Keep containers closed when not in use.
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from any source of ignition. Keep containers closed when not in use

- To be avoided:

Do not store exposed to the elements.

**Incompatible products :** Dangerous reaction with strong oxidizing agents.

**Packaging materials :** - Recommended:  
Use only hydrocarbon-resistant containers, joints, pipes, etc.  
Keep in original container if possible.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Technical measures :** Use the product in a properly ventilated atmosphere.  
When working on enclosed place (tanks, reservoirs...), make sure that atmosphere is not suffocating and/or wear recommended equipment.

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

oil mist : 5 mg/m3, for 8 hrs

**Legend** See section 16

**Hand protection :** Impermeable hydrocarbon-proof gloves. recommended material: nitrile , neoprene. The break through times of the same type of glove of different manufacturers can be very different - even if the layer thickness is similar. Therefore the break through times have to be found out from the manufacturer of the protective gloves themselves. The demands on the gloves are determined by the conditions in practice (e.g. multiple use, mechanical load, temperature, strength and duration of exposition). Before choosing suitable gloves, it is recommended that the user tests the gloves.

**Eye protection :** Goggles, in case of risk of splashing.

**Skin and body (other than the hands) protection :** As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums). Don't wear rings, watches or anything similar which can retain the product and may give rise to skin conditions



**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**

**Appearance :** Liquid  
**Colour :** Red  
**Odour** Characteristic  
**Density/specific gravity :** 8790 kg/m3  
Temperature (°C) 15  
**Flash point :** > 200 °C OC (Open cup)  
**Température d'auto-inflammation :** > 250 °C (ASTM E 659)  
**Comments on auto ignition temperature :** This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials...).

**Partition coefficient (log Pow) :** Log Pow (Mineral oil) > 6  
Temperature (°C) 20  
**Viscosity :** 17.8 - 18.8 mm2/s  
Temperature (°C) 100

**10. STABILITY AND REACTIVITY**

**Stability :** The product is stable at normal storage, handling and use temperatures.  
**Conditions to avoid :** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity  
**Materials to avoid :** Avoid contact with strong oxidizers

Hazardous decomp. products : Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity / Local effect :

Inhalation, comments: Not classified according to the criteria of classification in force.  
Inhalation of high concentrations of vapour or aerosols may cause irritation of the upper respiratory tract.

Skin contact, comments: Not classified according to the criteria of classification in force.

Ingestion, comments: In case of ingestion of small quantities, no important effect observed. In case of ingestion of larger amounts: abdominal pain, diarrhea, ...

#### CHRONIC TOXICITY OR LONG-TERM TOXICITY

Skin contact : Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing  
Sensitization : To our knowledge, the product does not cause aggravated sensitivity.  
Carcinogenicity : 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.

### 12. ECOLOGICAL INFORMATION

Comments about ecotoxicity : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mobility :  
- Air:  
there is a slow loss by evaporation.  
- Soil:  
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

### 13. DISPOSAL CONSIDERATIONS

Waste disposal : Dispose of in a safe manner, in accordance with local regulations.  
If need be, collection by an authorised waste contractor and regeneration or incineration at an approved installation.

Waste class :  
13 02 05  
The waste classification is dependant on the composition of the product at the time of disposal. The waste classification mentioned here represents only a recommendation. The waste producer is responsible for the correct specification of the waste. The specification of the waste classification should be in arrangement with the authorised waste disposal company.

Disposal of contaminated packaging : Proceed in compliance with the prevailing regulations.  
National regulations :

### 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

Risk phrases : R-52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases : S-61 Avoid release to the environment. Refer to special instructions/Safety Datas.

EU directives : Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC).  
This product fulfils the requirements of the European directives :  
76/769/EEC  
2000/53/EC  
2002/95/EC

2002/96/EC  
2003/11/EC

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**16. OTHER INFORMATION****Explanations of R-phrases in section 2 :**

R-38 Irritating to skin.  
R-41 Risk of serious damage to eye.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R-53 May cause long-term adverse effects in aquatic environments.  
R-11 Highly flammable.  
R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R-62 Possible risk of impaired fertility.

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**