



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

Product name :

QUARTZ SMC 0W20

Issue : 01

Version of : 2013-01-04

Revision date : None

PRODUCT LABELS

LABELLING (standard or EU): Not concerned
 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**

Product name : QUARTZ SMC 0W20
 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
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2. HAZARDS IDENTIFICATION

The product is not classified as dangerous in accordance with directive 1999/45/EC.

Health effects : This product does not present a danger of intoxication. May cause allergic reactions

Environmental properties Do not discharge this product into the environment

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION

Chemical nature : Product containing mineral oil with less than 3 % DMSO extract as measured by IP 346

Substances presenting a health hazard	EC No.	CAS-No	Content	Symbol(s)	R-phrases
Zinc alkyl di-thiophosphate	272-028-3	68649-42-3	<1 %	Xi	R-36, R-38

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 ₂), 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.
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.
Other information	All combustion residues and contaminated water from fire-fighting should be disposed of according to local regulations.



6. ACCIDENTAL RELEASE MEASURES




See sections 8 and 13.	
Personal protection :	Ensure good ventilation. Remove sources of ignition. Do not smoke.
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
Spill cleanup methods :	Recovery: Use mechanical means such as pumps, skimmers and absorbent materials. - Elimination: Hand over contaminated materials to an approved collector - see also section 13.

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.
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.
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).
STORAGE :	
Technical measures :	Make the necessary arrangements to prevent water and soil pollution.
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.

	- 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 (to be edited)

Appearance :	Liquid
Colour :	Yellow to amber
Odour	Characteristic
Density/specific gravity :	839 kg/m3 Temperature (°C) 15
Flash point :	> 200 °C OC (Open cup)
Température d'auto-inflammation :	> 250 °C (ASTM E 659-78)
Comments on auto ignition temperature :	This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials...).
Solubility :	Insoluble in water. Soluble in many common solvents.
Partition coefficient (log Pow) :	Log Pow (Mineral oil) > 6
Viscosity :	Temperature (°C) 20 8 - 9.0 mm2/s Temperature (°C) 100

10. STABILITY AND REACTIVITY

Stability :	The product is stable at normal storage, handling and use temperatures.
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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 :	Contains a sensitising substance May cause an allergic reaction
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 :	Experimental data on the finished product are not available. It is considered to present a little danger for aquatic life. no information available for used product
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
Persistence and degradability :	No experimental information about the finished product. The product should offer slow biodegradability

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 : National regulations :	Proceed in compliance with the prevailing 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 :	None
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Safety phrases : None
Other : - Contains:
Long chain alkaryl Calcium sulphonate
Polyolefin polyamine succinimide
May produce an allergic reaction

EU directives : Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC).
Social Security code :
Labor code :

16. OTHER INFORMATION

Explanations of R-phrases in section 2 :

- R-53 May cause long-term adverse effects in aquatic environments.
- 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.

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