



Material Safety Data Sheet

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QUARTZ 5000 FUTURE GF5 10W-30

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MSDS number : 187010

Version : 0

Date : 5/14/2012

Date of the previous version : -

PRODUCT LABELS

LABELLING (standard or EU) : Not Concerned

R-phrases : None

S-phrases : None

TRANSPORT LABELLING : Not Applicable

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Name of the product : **QUARTZ 5000 FUTURE GF5 10W-30**

Code No : LB 12-036-T2

Product application : MOTOR OIL

Supplier : Total Oil Asia-Pacific Pte. Ltd.
10 Pandan Avenue Singapore 609385
Tel : (65) 6266 2800
Fax: (65) 6266 3800

2. COMPOSITION/INFORMATION OF 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%

Components	EC No.	CAS No	Weight %	Symbol(s) / R-phrases
Zinc alkyldithiophosphate	272-028-3	68649-42-3	< 0.76	Xi; R38, N; R51-53
Alkaryl amide	Not available	Not available	< 1.1	N; R51-53
Polyolefin polyamine succinimide, polyol	Not available	Not available	< 1.52	R53
Diphenylamine	204-539-4	122-39-4	< 0.01	N; R50 R53,T; R23/24/25 R33
Ethylene glycol	203-473-3	107-21-1	< 0.01	Xn; R22
Polyolefin polyamine succinimide, borated	Not available	Not available	< 0.31	R53
Calcium long chain alkaryl sulfonate	Not available	Not available	< 0.53	R36
Alkenoic acid ester, borated	Not available	Not available	< 0.23	
Polyolefin polyamine succinimide, Molybdenum complex	Not available	Not available	< 0.23	
Calcium branched chain alkyl phenate sulfide	Not available	Not available	< 0.16	

See section 16 for explanantions of R-phrases :

3. HAZARD IDENTIFICATION

Health effects : Causes mild skin irritation

Environmental impact : Do not discard this product into the environment

Physical and chemical hazards : No specific risk of fire or explosion under normal conditions of use

4. FIRST AID MEASURES



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IN CASE OF SERIOUS OR PERSISTENT MANIFESTATIONS, 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.
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.
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.
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 heading 9
Fire extinguishers media :	
- suitable :	Foam, carbon dioxide (CO ₂), powder.
- not recommended :	Do not use water jet (stick jets) for extinguishing fire since they could help to spread the flames.
Specific hazards :	Incomplete combustion and thermolysis produce gases of varying toxicity such as CO, CO ₂ , 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 source of ignition.
Protective measures for firefighter :	Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.
Other :	The combustion residues and contaminated water for fire fighting have to be disposed according to the local regulations.

6. ACCIDENTAL RELEASE MEASURES

See sections 8 and 13

Personnel protection :	Ensure good ventilation. Remove sources of ignition. Do not smoke.
After spillage / leakage :	
- on the soil :	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 spilled in a river or in the sewers, notify the authorities of the possible presence of surface effluent.
Spill cleanup methods :	
- Recovery	Contain and collect the spilled product, sand the surfaces concerned if necessary. Contain and collect the spilled product with sand or any other inert absorbent material. In the event of a major spill, inform the competent authorities if the situation cannot be brought under



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control rapidly and efficiently.

- Elimination :

Dispose of waste in compliance with regulations.
Avoid discharge of the material in a steam or a sewer or cause ground contamination.

7. HANDLING AND STORAGE

HANDLING :

- Prevention of user exposure :

Ventilate extensively if the formation of vapour, fumes, mist or aerosol is a risk.
Make all the necessary arrangement in order to reduce exposure risk, notably to products in use or to wastes.
Keep away from combustive 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, papers or any other material used to remove spills which become soaked with product.
Avoid accumulation of these : they are to be disposed off safety 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 joints failure, for example).

STORAGE :

- Technical measures :

Make the necessary arrangements to prevent water and soil pollution.

- Storage precautions :

- Suitable :

Store at room temperature, protected against contact with water and moisture, and away from any sources 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 in enclosed place (tanks, reservoirs,...), make sure that atmosphere is not suffocating and/ or wear recommended equipment.

Occupational exposure limit :

- oil mist : 10mg/m³, for 15 minutes
- oil mist : 5mg/m³, for 8 hours

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.



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Eye protection :	Goggles, in case 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 ring, watches or anything similar which can retain the product and may give rise to skin conditions.
Hygienic work practices :	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 into contact with the skin, wash the affected area immediately and repeatedly with soap and water. Use no abrasives, solvents or fuels. Do not use cloths stained with the product to dry hands. Do not 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 :	Clear Liquid
Colour :	Yellow to Amber
Odour :	Characteristics
Density/Specific Gravity :	about 868kg/m ³ at 15°C
Flash point :	234°C (ASTM D92)
Auto-ignition temperature :	>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...).
Comments on explosivity :	Not applicable
Solubility :	
- in water :	Insoluble and immiscible.
- in organic solvents :	Soluble in many common solvents.
Viscosity :	Kinematic viscosity at 100°C : about 9.798 mm ² /s

10. STABILITY AND REACTIVITY

Stability :	The product is stable under normal storage, handling and use temperatures.
Condition to avoid :	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity
Materials to avoid :	Avoid contact with strong oxidizing agents
Hazardous decomposition products :	None under normal use

11. TOXICOLOGICAL INFORMATION

- Inhalation, comments :	Risk is improbable under normal conditions of use. Inhalation of important concentration of vapour or aerosols may cause irritation of the upper respiratory tract.
- Skin contact, comments :	Risk is improbable under normal conditions of use.
- Ingestion, comments :	In case of ingestion of small quantities, no important effect observed. In case of ingestion of larger amounts: abdominal pain, diarrhoea,...



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CHRONIC TOXICITY OR LONG TERM TOXICITY :

- Skin contact : Characteristics skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing.
- Sensitization : Not determine
- Carginogenecity : 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 oil is not expected to have serious effects in human 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.
No information available for used product.
It is considered to present a little danger for aquatic life.

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 INFORMATION

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

Waste class : 13-02-05 (non-chlorinated engine, gear, lubricating oils)
The waste classification is dependent on the composition of the product at the time of disposal.
The waste classification mentioned here represents only a recommendation. The waster producer is responsible for the correct specification of the waste. The specification of the waster classification should be in arrangement with the authorised waste disposal company.

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

14. TRANSPORT INFORMATION

- Road (ADR) / Rail (RID) : Not regulated
- Transport by barge (ADNR) : Not regulated
- Marine (IMO-IMDG) : Not regulated
- Air (ICAO / IATA) : Not regulated

15. REGULATORY INFORMATION

- Risk phrase(s) : None
- Safety phrase(s) : None
- EU directives : Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC)



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Social Security code :

Art. L 461-6, Art. D461-1, appendix A, No. 601.
Table of occupational illnesses and diseases No. 36

labor code :

Art. R 241-50, decree of 07.11.1977

16. OTHER INFORMATION

Explanations of R-phrases in section 2 :

R22 -- Harmful if swallowed

R23/24/25 -- Toxic by inhalation, in contact with skin and if swallowed

R33 -- Danger of cumulative effects

R36/38 -- Irritating to eyes and skin

R38 -- Irritating to skin

R41 -- Risk of serious damage to eye

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 aquatic environment

R52/53 -- Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment

R62 -- 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 our 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 or her activity. The user bears sole liability for the precautions required when using the product. The regulatory texts 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.