



SAFETY DATA SHEET

according to the Global Harmonized System

SDS # : 39075

QUARTZ 8000 FUTURE NFC 5W-30

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier

Product name QUARTZ 8000 FUTURE NFC 5W-30

Other means of identification

Number S02
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Motor oil.
Uses advised against Do not use for any purpose other than the one for which it is intended.

Details of the supplier of the safety data sheet

Supplier TOTAL OIL ASIA PACIFIC PTE LTD
182 Cecil Street
#27-01 Frasers Tower
Singapore 069547
Tel: +65 6879 2200
Fax: +65 6879 2203

TOTAL LUBRIFIANTS
562 Avenue du Parc de L'île
92029 Nanterre Cedex
FRANCE
Tel: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71

See section 16 for additional information

For further information, please contact:

Contact Point HSE
E-mail Address ms.ap-sds@total.com

Emergency telephone

Asia-Pacific: +65 3158 1074
Middle-East: +44 1235 239671

2. HAZARDS IDENTIFICATION



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

GHS Label elements, including precautionary statementsSignal word **None****Hazard Statements**

None

Other hazards which do not result in classification**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.

Environmental properties

The product may form an oil film on the water surface that may stop the oxygen exchange.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Mixture**

Chemical nature Mineral oil of petroleum origin.

Chemical Name	CAS-No	EC-No	Weight %
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	276-738-4	60-<70
bis(nonylphenyl)amine	36878-20-3	253-249-4	1-<2.5
C14-16-18 Alkyl phenol	^	931-468-2	1-<3

Additional information

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

4. FIRST AID MEASURES**Description of necessary first-aid measures****General advice**

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

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.
Inhalation	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Protection of First-aiders	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Skin contact	Not classified based on available data. May produce an allergic reaction.
Eye contact	Not classified based on available data.
Inhalation	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Special Hazard 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, Nitrogen oxides (NO_x), Phosphorous oxides, Zinc oxides.



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

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

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.

Environmental precautions

General Information Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.

Methods for cleaning up Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Other information

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling 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.



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. 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 workwear pockets.

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

Keep away from food, drink and animal feedingstuffs. Keep in a banded 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. Store at room temperature. Protect from moisture.

Materials to Avoid

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure limits**

Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

Appropriate engineering controls**Engineering Measures**

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment (PPE)**Personal Protective Equipment****General Information**

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

Respiratory protection	None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387): Type A/P1. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.
Eye Protection	If splashes are likely to occur, wear: Safety glasses with side-shields. EN 166.
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type 4/6.
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency. 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, and the contact time.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance	limpid
Color	yellow
Physical State @20°C	liquid
Odor	Characteristic
Odor Threshold	No information available

Important health safety and environmental information

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		Not applicable	
Boiling point/boiling range		No information available	
Flash point	220 °C 428 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC).



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

Evaporation rate		No information available	
Flammability Limits in Air			
upper		No information available	
Lower		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	0.850	@ 15 °C	
Density	850 kg/m ³	@ 15 °C	
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic	56 mm ² /s	@ 40 °C	ISO 3104
	9.8 mm ² /s	@ 100 °C	ASTM D 445
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	None under normal processing		

Other information

Freezing Point		No information available	
Pour point	-36 °C		ASTM D 97

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	None under normal processing.
<u>Chemical stability</u>	Stable under recommended storage conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.

Materials to Avoid Strong oxidizing agents.

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Combustion products include sulphur oxides (SO₂ and SO₃) and Hydrogen sulphide H₂S, Mercaptans, Nitrogen oxides (NO_x), Phosphorous oxides, Zinc oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact	Not classified based on available data. May produce an allergic reaction.
Eye contact	Not classified based on available data.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity - Product Information

Oral	Not classified based on available data.
Dermal	Not classified based on available data.
Inhalation	Not classified based on available data.

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)
bis(nonylphenyl)amine	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 2000 mg/kg (Rat - OECD 402)	
C14-16-18 Alkyl phenol	LD50 2000 mg/kg bw (rat)	LD50 2000 mg/kg bw (rat)	

Skin corrosion/irritation Not classified based on available data.

Serious eye damage/eye irritation Not classified based on available data.



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

Sensitization	Not classified based on available data. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required. Contains sensitizer(s). May produce an allergic reaction.
Carcinogenicity	Not classified based on available data. 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.
Germ Cell Mutagenicity	Not classified based on available data
Reproductive toxicity	Not classified based on available data.
Target Organ Effects (STOT)	None known
STOT - single exposure	Not classified based on available data
STOT - repeated exposure	Not classified based on available data
Aspiration hazard	Not classified based on available data.
Other adverse effects	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Not classified based on available data.

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
Lubricating oils (petroleum), C20-50, hydrotreated neutral	EL50 (48h) > 100 mg (Pseudokirchnerella)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss -	



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

oil-based 72623-87-1	subcapitata - OECD 201)	202) LL50 (24h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (48h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (72h) > 10000 mg/l (Gammarus pulex - OECD 202) LL50 (96h) > 10000 mg/l (Gammarus pulex - OECD 202)	OECD 203)	
bis(nonylphenyl)amine 36878-20-3	EC50(72h) 600 mg/l (Selenastrum capricornutum)	EC50 (48h) > 100 mg/l (Daphnia magna - OECD 202)	LC50(96h) > 100 mg/l (Zebra Fish)	EC50(0.1 d) > 1,000 mg/l (Sludge)
C14-16-18 Alkyl phenol ^		EC50(48h) > 100 mg/l (Daphnia magna - static - OECD202)		

Chronic aquatic toxicity - Product Information

No information available.

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based 72623-87-1	NOEL (72h) >= 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	NOEL (21d) 10 mg/l (Daphnia magna - OECD 211)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox) NOEL (96h) > 100 mg/l (Pimephales promelas - OECD 203)	

Effects on terrestrial organisms No information available.**Persistence and degradability**

No information available.

Bioaccumulative potential**Product Information** No information available.



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

logPow No information available

Component Information

Chemical Name	log Pow
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based - 72623-87-1	4.1
bis(nonylphenyl)amine - 36878-20-3	7.7

Mobility

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

Air Loss by evaporation is limited.

Water The product is insoluble and floats on water.

Other adverse effects

General Information No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where possible recycling is preferred to disposal or incineration.

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

Other information Refer to section 8 for safety and protective measures for disposal personnel.

14. TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

15. REGULATORY INFORMATION

International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:
Canada (DSL/NDSL)
New Zealand (NZIoC)
Philippines (PICCS)
Korea (KECL)
U.S.A. (TSCA)
Australia (AICS)
Europe (EINECS/ELINCS/NLP)

Further information

No information available

National regulatory information

No information available

16. OTHER INFORMATION

Issuing date: 2019-04-25
Revision Date: 2019-05-15
Revision Note No information available.

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

Legend

Section 8 ACGIH - American Conference of Governmental Industrial Hygienists

TWA - Time Weight Average

STEL - Short Term Exposure Limits

S* - Skin notation

Ceiling: Maximum limit value

Additional details on the supplier of the product

U.A.E Supplier	TOTAL MARKETING MIDDLE EAST FZE Burjuman Business Tower, 11th Floor Sheikh Khalifa Bin Zayed Road Dubai P.O. Box 14871 U.A.E Tel: +971 4 709 50 00 Fax: +971 4 351 91 54	CAMBODIA Supplier	TOTAL CAMBODGE ANINA Building 6th Floor, No 240, St. 271, B.P600, 12351 Phnom Penh, Cambodia Tel: +855 23 218 630 Fax: +855 23 217 662
INDIA Supplier	TOTAL OIL INDIA PVT. LTD. 3rd Floor, The Leela Galleria, Andheri - Kurla Road, Andheri (East), Mumbai Maharashtra State, INDIA 400059 Tel: +91 22 6723 2500 Fax: +91 22 6723 2600	JORDAN Supplier	TOTAL JORDAN Reem Center, 4th Floor 244 Arar Street, Wadi Saqra P.O. Box 831285, Amman 11183 Jordan Tel: +962 6 500 80 05 Fax: +962 6 500 80 08
LEBANON Supplier	TOTAL LIBAN Rue Achrafieh, Imm. Tilal Bloc B, 2ème Etage B.P. 11-3636 Beyrouth - Liban Tel : + 961 1 21 22 50 Fax: + 961 1 21 21 33	PAKISTAN Supplier	TOTAL PARCO PAKISTAN LTD 10 Tariq Block, New Garden Town Lahore 54700, Pakistan Tel: +92 42 111 709 709 Fax: +92 42 354 683 66
PAPUA NEW GUINEA Supplier	TOTAL OIL ASIA PACIFIC PTE LTD - PNG Cuthbertson Street Level 4, Cuthbertson House PO BOX 1784 Port Moresby Papua New Guinea Tel: +675 320 2141 Fax: +675 320 3951	SAUDI ARABIA Supplier	SAUDI TOTAL PETROLEUM PRODUCTS CO. LTD 704, Zahran Business Center Sultan street - Tower A , 7th floor PO Box 4861, Jeddah 21463 K.S.A Tel: +966 12 22 56 300 Fax: +966 12 22 56 311

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.



SAFETY DATA SHEET
according to the Global Harmonized System

SDS # : 39075

**QUARTZ 8000 FUTURE NFC
5W-30**

Issuing date: 2019-04-25

Revision Date: 2019-05-15

Version 1.01

End of the Safety Data Sheet