

Section 1. Identification


Product identifier : QUARTZ 5000 20W-50

Recommended use of the chemical and restrictions on use

Identified uses

Engine oil

Supplier's details :

 TotalEnergies Lubrifiants
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92029 Nanterre Cedex FRANCE
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TOTAL - Direction Afrique
24, cours Michelet
92800 PUTEAUX
FRANCE
Tel : +33 (0)1 41 35 40 00
Fax : +33 (0)1 41 35 82 88

Emergency telephone number : +44 1235 239671
To speak to an interlocutor in Portuguese or Spanish: +44 1235 239670

Section 2. Hazard identification

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.
Precautionary statements
General : Not applicable
Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.

**Section 3. Composition/information on ingredients**

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
Calcium long chain alkaryl sulfonate	<1	722503-69-7
Calcium long chain alkaryl sulfonate	<1	722503-68-6

Additional information : Mineral oil of petroleum origin Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measuresDescription of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayedPotential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Defatting to the skin. May cause skin dryness and irritation.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
irritation
dryness
cracking
- Ingestion** : No specific data.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)



Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Carbon dioxide (CO₂), carbon monoxide
- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits UN

None.

Occupational exposure limits Egypt

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Occupational exposure limits Lesotho

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

Occupational exposure limits South Africa

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ACGIH TLV (United States, 3/2020). TWA: 5 mg/m ³ 8 hours. Form: Inhalable fraction

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Advisory OEL** : 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)



Section 8. Exposure controls/personal protection

Individual protection measures

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Hydrocarbon-proof gloves
Fluorinated rubber
nitrile rubber
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.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator with combination filter for vapor/particulate 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 None under normal use conditions

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

Appearance

- Physical state** : Liquid. [limpid]
- Color** : Not available.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point** : Not available.
- Flash point** : Open cup: 240°C (464°F)
- Evaporation rate** : Not available.



Section 9. Physical and chemical properties and safety characteristics

Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.892
Solubility	: Insoluble in the following materials: cold water and hot water.
Miscible with water	: <input checked="" type="checkbox"/> No.
Partition coefficient: n-octanol/water	: <input checked="" type="checkbox"/> Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: <input checked="" type="checkbox"/> Kinematic (40°C (104°F)): 176.4 mm ² /s (176.4 cSt)
Flow time (ISO 2431)	: Not available.
<u>Particle characteristics</u>	
Median particle size	: <input checked="" type="checkbox"/> Not applicable.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
<input checked="" type="checkbox"/> Calcium long chain alkaryl sulfonate	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	-
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-
Calcium long chain alkaryl sulfonate	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	-
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-



Section 11. Toxicological information

Conclusion/Summary : Based on available data, the classification criteria are not met.

Irritation/Corrosion

Skin : Based on available data, the classification criteria are not met.

Eyes : Based on available data, the classification criteria are not met.

Respiratory : Based on available data, the classification criteria are not met.

Sensitization

Skin : Based on available data, the classification criteria are not met.

Respiratory : Based on available data, the classification criteria are not met.

Mutagenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : Defatting to the skin. May cause skin dryness and irritation.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
irritation
dryness
cracking

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.



Section 11. Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

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.

Mutagenicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/substance	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Calcium long chain alkaryl sulfonate	N/A	N/A	N/A	20.1	5.1
Calcium long chain alkaryl sulfonate	N/A	N/A	N/A	20.1	5.1

Section 12. Ecological information

Toxicity

Persistence and degradability

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Calcium long chain alkaryl sulfonate	-	-	Not readily
Calcium long chain alkaryl sulfonate	-	-	Not readily

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility in soil : Given its physical and chemical characteristics, the product generally shows low soil mobility. The product is insoluble and floats on water. Loss by evaporation is limited.



Section 12. Ecological information

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	ADR	IMDG	ICAO/IATA
UN/ID No	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Special precautions for user : **Transport within user’s premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**Section 15. Regulatory information**UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia inventory (AIIIC)	: All components are listed or exempted.
Canada inventory (DSL/NDSL)	: All components are listed or exempted.
China inventory (IECSC)	: At least one component is not listed.
Europe inventory (EINECS/ELINCS/NLP)	: All components are listed or exempted.
Japan inventory	: Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : Not determined.
New Zealand Inventory of Chemicals (NZIoC)	: Not determined.
Philippines inventory (PICCS)	: All components are listed or exempted.
Korea inventory (KECI)	: Not determined.
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.
Thailand inventory	: Not determined.
Turkey inventory	: Not determined.
United States inventory (TSCA 8b)	: All components are listed or exempted.
Vietnam inventory	: Not determined.

Section 16. Other informationHistory**Date of revision** : 2021/12/01**Date of previous revision** : 2021/06/25**Version** : 2.01Key to abbreviations

: ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 N/A = Not available
 SGG = Segregation Group
 UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

Additional details on the supplier of the product

TOTAL BURKINA 1080, Avenue Kwame N'Krumah Ouagadougou / BURKINA	TotalEnergies Marketing Cameroun 589, Boulevard de la Liberté Akwa - Douala B.P. 4048 Douala – Cameroun Téléphone : (237) 233 42 63 41	TOTAL CENTRAFRIQUE Avenue de l'Indépendance, BP 3295 Bangui / REPUBLIQUE CENTRAFRICAINE	TOTAL CONGO Rue de la corniche Brazzaville / CONGO
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TotalEnergies

QUARTZ 5000 20W-50

SDS # : 088347

Section 16. Other information

TotalEnergies Marketing Côte d'Ivoire Immeuble Rive Gauche, 100 Rue des brasseurs, Zone 3 01 BP 336 - Abidjan – CÔTE D'IVOIRE	TOTAL EGYPT Corner St. 254 & 206, Degla, Maadi. Cairo, 11431 / EGYPT	TOTAL ETHIOPIA B & B building, behind AU head Quarter Addis-Abeba / ETHIOPIA	TOTAL GUINEA ECUATORIAL Malabo II / GUINEA
TotalEnergies Marketing Kenya PLC Regal Plaza, 6th Avenue Parklands, Limuru Road P.O. BOX 30736, 00100- NAIROBI – KENYA	TOTAL LESOTHO (PTY) LTD Motoane Road, Industrial area Maseru / LESOTHO	TOTAL LIBERIA Clara town, Busrod Island Monrovia / LIBERIA	TOTAL MADAGASIKARA SA Immeuble Fitaratra, Route des hydrocarbures Ankorondrano 101 Antananarivo / MADAGASCAR
TOTAL MALAWI LIMITED OffMasauko Chipembere Highway Maselema Limbe / MALAWI	TOTAL MALI Avenue Kasse Keita Bamako / MALI	TOTAL MARKETING GABON Quartier Glass Boulevard de la République Libreville / GABON	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
TOTAL MARKETING TCHAD Parc des hydrocarbures, route de mara N'Djamena / TCHAD	TOTAL MAROC 146, Bd. Zerktouni 20000 Casablanca / MAROC	TOTAL MAURITANIE E nord- Lot n°110 Nouakhott / MAURITANIE	TOTAL MAURITIUS Chaussée Tromelin, Quai D BP 1202 Port-Louis / MAURITIUS
TOTAL MOZAMBIQUE Av. Sociedade de Geografia n°83, Edificio Maryah - 5° andar unico Maputo / MOZAMBIQUE	TOTAL NAMIBIA (PTY) LTD 5 Otto Nitzsche Strasse, Klein Windhoek Windhoek / NAMIBIA	TOTAL NIGER Route de l'aéroport Niamey / NIGER	TOTAL PETROLEUM GHANA LTD 25 Liberia Road P.O. BOX GP553 Accra / GHANA
TOTAL RDC 652, Avenue Lt Colonel Likusa Gombe, Kinshasa / REPUBLIQUE DEMOCRATIQUE DU CONGO	TOTAL SENEGAL Route de l'aéroport, sur la station TOTAL Ngor BP 355 Dakar / SENEGAL	TOTAL SIERRA LEONE Total house, 41 Main motor Road, Brookfields Freetown / SIERRA LEONE	TotalEnergies Marketing South Africa (Pty) Ltd 3 Biermann Avenue Rosebank 2196 PO Box 579, Saxonwold, 2132 South Africa
TOTAL SWAZILAND (PTY) LTD King Sobhuza 2nd Avenue, Industrial sites Manzini / SWAZILAND	TotalEnergies Marketing Tanzania Total House – Msasani Peninsula Haile Selassie road Plot no. 1720, PO Box 1503 Dar es salaam, Tanzania Tel +255222927700	TOTAL TOGO 69 bd de la paix Lomé / TOGO	TOTAL TUNISIE Rue du Lac Huron 1053 Les Berges du Lac – Tunis / TUNISIE
TOTAL UGANDA Plot 4, eighte Street Industrial Area Kampala / UGANDA	TOTAL Upstream Companies Plot 25, Trans Amadi Industrial Layout P.M.B 5160 and P.O Box 696, Port Harcourt NIGERIA +234(084)236310	TOTAL ZAMBIA Mungwi Road, Plot 1709 -A Industrial Area Lusaka / ZAMBIA	TOTAL ZIMBABWE Total house, 1 Auckland road - Southernton Harare / ZIMBABWE
Totalgaz Southern Africa (Pty) Ltd. 2nd Floor, Tygervalley, Chambers Two Bellville, 7530 Western Cape - South Africa Tel: +27 21 941 4000 Fax: +27 21 941 4001			

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader



TotalEnergies

QUARTZ 5000 20W-50

SDS # : 088347

Section 16. Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.