



SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

Section 1. Identification

GHS product identifier : QUARTZ 9000 XTRA FUTURE FGC 0W-20

Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Engine oil

Supplier's details : TotalEnergies Marketing USA, Inc.
1201 Louisiana St. Suite 1800
Houston, TX 77002
Phone: 713-483-5000
ProductSafety@totalenergies.com

TotalEnergies Marketing Canada Inc.
220 LAFLEUR
LASALLE, QUEBEC
H8R 4C9
Tel: (514) 595-7579
Fax: (514) 595-5950

Emergency telephone number (with hours of operation) :

1-866-928-0789 (For Emergencies, call CARECHEM 24/7 Domestic)
1-215-207-0061 (For Emergencies, call CARECHEM 24/7 International)

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No hazard statement.

Precautionary statements

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

| Ingredient name | % (w/w) | Identifiers | GHS Classification |
|--|-----------|-----------------|---|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | ≥75 - ≤90 | CAS: 72623-86-0 | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated heavy paraffinic | ≤5 | CAS: 64742-54-7 | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated heavy paraffinic | ≤5 | CAS: 64742-54-7 | Not classified. |
| zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate) | ≤3 | CAS: 2215-35-2 | SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 |
| Distillates (petroleum), hydrotreated heavy paraffinic | ≤1 | CAS: 64742-54-7 | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | ≤1 | CAS: 64742-65-0 | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-refined heavy paraffinic | ≤1 | CAS: 64741-88-4 | Not classified. |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Additional information : The product is made from synthetic base oils

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 measures

Description 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 if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. 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 delayed

Potential acute health effects

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : ☒ No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : ☒ No specific data.
- Ingestion** : No specific data.

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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 monoxide
carbon dioxide
nitrogen oxides
phosphorus oxides
sulfur oxides
Hydrogen sulfide
Mercaptans
Zinc oxides

- 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. Absorb with an inert 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. 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. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). See Section 10 for incompatible materials before handling or use.
- 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

| Product/substance | Exposure limits |
|--|--|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | NIOSH REL (United States, 10/2020) [OIL MIST MINERAL] TWA 10 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist. OSHA PEL (United States, 5/2018) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. |
| Distillates (petroleum), hydrotreated heavy paraffinic | NIOSH REL (United States, 10/2020) [OIL MIST MINERAL] TWA 10 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist. OSHA PEL (United States, 5/2018) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. |
| Distillates (petroleum), hydrotreated heavy paraffinic | NIOSH REL (United States, 10/2020) [OIL MIST MINERAL] TWA 10 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist. OSHA PEL (United States, 5/2018) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. |
| zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) | None. |
| Distillates (petroleum), hydrotreated heavy paraffinic | NIOSH REL (United States, 10/2020) [OIL MIST MINERAL] TWA 10 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist. OSHA PEL (United States, 5/2018) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | NIOSH REL (United States, 10/2020) [OIL MIST MINERAL] TWA 10 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist. OSHA PEL (United States, 5/2018) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. |
| Distillates (petroleum), solvent-refined heavy paraffinic | NIOSH REL (United States, 10/2020) [OIL MIST MINERAL] TWA 10 hours: 5 mg/m ³ . Form: Mist. STEL 15 minutes: 10 mg/m ³ . Form: Mist. OSHA PEL (United States, 5/2018) [Oil mist, mineral] TWA 8 hours: 5 mg/m ³ . ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4. TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction. |

Biological exposure indices

No exposure indices known.

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

- Advisory OEL** : ☒ Not available.
- 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.

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.
- Respiratory protection** : None under normal use conditions. If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn.

Section 9. Physical and chemical properties

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** : Amber.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Pour point** : -45°C (-49°F)
- Boiling point** : >316°C (>600.8°F)
- Flash point** : Open cup: 228°C (442.4°F) [ASTM D 92]

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

| | |
|--|----------------------------------|
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Lower and upper explosive (flammable) limits | : Lower: 0.9% Upper: 7% |
| Vapor pressure | : 0.013 kPa (0.1 mm Hg) |
| Vapor density | : Not available. |
| Relative density | : 0.845 [ASTM D 4052] |
| Density | : 0.845 g/cm ³ [15°C] |
| Solubility(ies) | : |

| Media | Result |
|-------|-------------|
| water | Not soluble |

| | |
|--|--|
| Miscible with water | : No. |
| Solubility in water | : Insoluble |
| Partition coefficient: n-octanol/water | : Not applicable. |
| Auto-ignition temperature | : 310°C (>590°F) |
| Decomposition temperature | : Not available. |
| Viscosity | : Dynamic (room temperature): Not available. Kinematic (room temperature): Not available. [ASTM D 445] Kinematic (40°C (104°F)): 44 mm ² /s (44 cSt) [ASTM D 445] |
| Flow time (ISO 2431) | : Not available. |
| <u>Particle characteristics</u> | |
| Median particle size | : Not applicable. |

Section 10. Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : Stable under recommended storage and handling conditions (see Section 7). |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Incompatible materials | : Strong oxidizing agents |
| Hazardous decomposition products | : carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/substance | Result |
|--|---|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | Rat - Oral - LD50 >5000 mg/kg OECD [401] Rabbit - Dermal - LD50 >5000 mg/kg OECD [402] Rat - Inhalation - LC50 Dusts and mists 5.53 mg/l [4 hours] OECD [403] |
| Distillates (petroleum), hydrotreated heavy paraffinic | Rat - Male, Female - Oral - LD50 >5000 mg/kg OECD [401 Read across] Rabbit - Male, Female - Dermal - LD50 >5000 mg/kg OECD [402 Read across] Rat - Male, Female - Inhalation - LC50 Dusts and mists >5 mg/l [4 hours] OECD [403 Read across] |
| Distillates (petroleum), hydrotreated heavy paraffinic | Rat - Male, Female - Oral - LD50 >5000 mg/kg OECD [401 Read across] Rabbit - Dermal - LD50 >5000 mg/kg OECD [402 Read across] Rat - Inhalation - LC50 Dusts and mists >5 mg/l [4 hours] OECD [403 Read across] |
| zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) | Rat - Oral - LD50 2230 mg/kg OECD [401] Rat - Dermal - LD50 >3160 mg/kg OECD [402] Rat - Inhalation - LC50 Vapor >2 mg/l [1 hours] OECD [403] |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Rabbit - Dermal - LD50 >5000 mg/kg OECD [402] Rat - Oral - LD50 >5000 mg/kg OECD [420] Rat - Inhalation - LC50 Dusts and mists >5 mg/l [4 hours] OECD [403] |
| Distillates (petroleum), solvent-refined heavy paraffinic | Rat - Oral - LD50 >5000 mg/kg OECD [420] |

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

Rabbit - Dermal - LD50

>5000 mg/kg

OECD [402]

Rat - Inhalation - LC50 Dusts and mists

5.1 mg/l [4 hours]

OECD [403]

Acute toxicity estimates

| Product/substance | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|-----------------|-------------------|--------------------------------|----------------------------------|---|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 220792.1 N/A | N/A N/A | N/A N/A | N/A N/A | N/A 5.53 |
| zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) | 2230 | N/A | N/A | N/A | N/A |
| Distillates (petroleum), solvent-refined heavy paraffinic | N/A | N/A | N/A | N/A | 5.1 |

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

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Respiratory corrosion/irritation

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

Respiratory or skin sensitization
Skin

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

Respiratory

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

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 : ☒ No known significant effects or critical hazards.
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 : ☒ No specific data.
Ingestion : No specific data.

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

Potential chronic health effects

General : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

Other information :
 Not available.

Section 12. Ecological information

Ecotoxicity

| Product/substance | Result |
|--|---|
| <input checked="" type="checkbox"/> Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | Acute - LL50 OECD 203 Fish - <i>Pimephales promelas</i> >1000 mg/l [96 hours] Acute - EL50 OECD [202] Crustaceans - <i>Daphnia magna</i> >10000 mg/l [48 hours] Effect: Mobility Acute - EL50 OECD 201 Algae - <i>Pseudokircheriella subcapitata</i> >100 mg/l [72 hours] Effect: (growth rate) Chronic - NOEL OECD 211 Crustaceans - <i>Daphnia magna</i> >1000 mg/l [21 days] Effect: Reproduction Chronic - NOEL |

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

Distillates (petroleum), hydrotreated heavy paraffinic

OECD 201
Algae - *Pseudokircheriella subcapitata*
>100 mg/l [72 hours]
Effect: (growth rate)
Acute - EC50
OECD [202]
Crustaceans - *Daphnia magna*
>10000 mg/l [48 hours]
Effect: Mobility
Acute - EC50
OECD [201]
Algae - *Pseudokirchneriella subcapitata*
>100 mg/l [72 hours]
Effect: (growth rate)
Chronic - NOEL
Crustaceans - *Daphnia magna*
>1000 mg/l [21 days]
Effect: Reproduction
Chronic - NOEL
OECD [201]
Algae - *Pseudokirchneriella subcapitata*
>100 mg/l [72 hours]
Effect: (growth rate)

Distillates (petroleum), hydrotreated heavy paraffinic

Acute - LL50
OECD [202]
Crustaceans - *Daphnia magna*
>10000 mg/l [48 hours]
Effect: Mobility
Acute - LL50
OECD [201]
Algae - *Pseudokirchneriella subcapitata*
>100 mg/l [72 hours]
Effect: (growth rate)
Chronic - NOEL
Fish - *Oncorhynchus mykiss*
>1000 mg/l [21 days]
Effect: Mortality
Chronic - NOEL
Crustaceans - *Daphnia magna*
10 mg/l [21 days]
Effect: Reproduction
Chronic - NOEL
OECD [201]
Algae - *Pseudokirchneriella subcapitata*
>100 mg/l [72 hours]
Effect: (growth rate)

zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)

Acute - EC50
Algae
24 mg/l [72 hours]
Acute - LC50
Fish
4.5 mg/l [96 hours]
Acute - EC50
Daphnia
23 mg/l [48 hours]

QUARTZ 9000 XTRA FUTURE FGC 0W-20

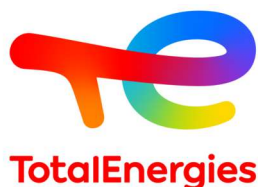
SDS # :C36MN4D9C

| | |
|---|---|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | Chronic - NOEC Daphnia 0.4 mg/l [21 days] Acute - LL50 OECD 203 Fish - <i>Oncorhynchus mykiss</i> >1000 mg/l [96 hours] Acute - EL50 OECD [202] Crustaceans - <i>Daphnia magna</i> >10000 mg/l [48 hours] Effect: Mobility Chronic - NOEL OECD [211] Crustaceans - <i>Daphnia magna</i> >1000 mg/l [21 days] Effect: Reproduction |
| Distillates (petroleum), solvent-refined heavy paraffinic | Acute - EC50 OECD [201] Algae - <i>Pseudokirchnerella subcapitata</i> >100 mg/l [48 hours] Chronic - NOEL Fish - <i>Oncorhynchus mykiss</i> >1000 mg/l [21 days] Chronic - NOEL OECD [211] Daphnia - <i>Daphnia magna</i> 10 mg/l [21 days] |

Persistence and degradability

| Product/substance | Result |
|--|--|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | OECD 301F 31% [28 days] - Not readily |
| Distillates (petroleum), hydrotreated heavy paraffinic | OECD 301F 31% [28 days] - Not readily |
| Distillates (petroleum), hydrotreated heavy paraffinic | OECD 301F 31% [28 days] - Not readily |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | OECD 301F 31% [28 days] - Not readily |

| Product/substance | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | - | - | Not readily |
| Distillates (petroleum), hydrotreated heavy paraffinic | - | - | Not readily |
| Distillates (petroleum), hydrotreated heavy paraffinic | - | - | Not readily |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | - | - | Not readily |
| Distillates (petroleum), | - | - | Not readily |



QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

solvent-refined heavy
paraffinic

Bioaccumulative potential

| Product/substance | LogK _{ow} | BCF | Potential |
|--|--------------------|-----|-----------|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | 6.1 | - | High |
| Distillates (petroleum), hydrotreated heavy paraffinic | >4 | - | High |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 9.2 | 260 | Low |
| Distillates (petroleum), solvent-refined heavy paraffinic | 3.9 to 6 | - | High |

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.

Other adverse effects

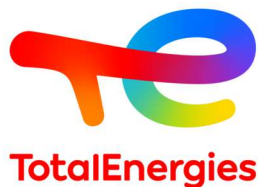
No known significant effects or critical hazards.

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

| | DOT Classification | IMDG | ICAO/IATA |
|-------------------------------|--------------------|----------------|----------------|
| UN/ID No | Not regulated. | Not regulated. | Not regulated. |
| UN proper shipping name | - | - | - |
| Transport hazard class(es) | - | - | - |



QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

| | | | |
|-----------------------|-----|-----|-----|
| Packing group | - | - | - |
| Environmental hazards | No. | No. | No. |

Additional information

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

U.S. Federal regulations : **Clean Water Act (CWA) 307**: zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate); zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

TSCA 12(b) - Chemical export notification

Not applicable.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

| Name | % | Classification |
|--|-----------|---|
| Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based | ≥75 - ≤90 | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), hydrotreated heavy paraffinic | ≤5 | ASPIRATION HAZARD - Category 1 |
| zinc O,O,O',O'-tetrakis (1,3-dimethylbutyl) bis (phosphorodithioate) | ≤3 | SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 |

SARA 313

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

| | Product name | CAS number | % |
|---------------------------------|---|------------|----|
| Form R - Reporting requirements | Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) | 2215-35-2 | ≤3 |
| Supplier notification | Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) | 2215-35-2 | ≤3 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed: OIL MIST, MINERAL; OIL MIST, MINERAL; OIL MIST, MINERAL
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: ZINC compounds
- Pennsylvania** : The following components are listed: ZINC COMPOUNDS
- California Prop. 65**

To the best of our knowledge, this product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm

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.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

- Australia inventory (AIIC)** : All components are listed or exempted.
- Canada inventory (DSL/NDL)** : All components are listed or exempted.
- China inventory (IECSC)** : All components are listed or exempted.
- Europe inventory (EC)** : At least one component is not listed.
- 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)** : All components are listed or exempted.
- 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.

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

| | | |
|------------------|---|---|
| Health | / | 0 |
| Flammability | | 1 |
| Physical hazards | | 0 |
| | | |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

| Classification | Justification |
|-----------------|---------------|
| Not classified. | |

History

Date of revision : 2025/02/06

previous revision date : 2024/10/30

Version : 2

Key to abbreviations : ACGIH = American Conference of Governmental Industrial Hygienists
BCF = Bioconcentration Factor
EC50 = Half maximal effective concentration
EL50 = median Effective Loading
IC50 = Half maximal inhibitory concentration
IDHL = Immediately dangerous to life or health
LC50 = Median lethal concentration

QUARTZ 9000 XTRA FUTURE FGC 0W-20

SDS # :C36MN4D9C

LD50 = Median lethal dose
LL50 = median Lethal Loading
LogKow = logarithm of the octanol/water partition coefficient
N/A = Not available
NIOSH = National Institute of Occupational Safety and Health
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOEL = No Observed Effect Level
NOELR = No observed Effect Loading Rate
OECD = Organisation for Economic Co-operation and Development
OEL = Occupational Exposure Limit
QSAR = Quantitative Structure–Activity Relationship
REL = Recommended Exposure Limit
STEL = Short Term Exposure Limit
TLV = Threshold Limit Value
TWA = Time Weight Average
VOC = Volatile Organic Compound
UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

References

: Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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.