

### SAFETY DATA SHEET

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

QUARTZ 9000 FUTURE GF6 0W-20

**SDS no.** 091127

:

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : QUARTZ 9000 FUTURE GF6 0W-20

Product code : 091127
Product description : Not available.

Due deset toma

Product type : Liquid.

Other means of : Not available.

identification

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

#### **Identified uses**

Engine oil

Formulation additives, lubricants and greases - Industrial

General use of lubricants and greases in vehicles or machinery - Industrial General use of lubricants and greases in vehicles or machinery - Professional

#### Uses advised against

Not applicable.

#### 1.3 Details of the supplier of the safety data sheet

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#### 1.4 Emergency telephone number

#### **National advisory body/Poison Centre**

Telephone number : National Poisons Information Service (NPIS): 111

**Supplier** 

**Telephone number**: Emergency telephone: +44 1235 239670

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### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Sens. 1, H317

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

Ingredients of unknown

: Contains 3.1% of components with unknown hazards to the aquatic environment

ecotoxicity

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms



Signal word : Warning

**Hazard statements** : H317 - May cause an allergic skin reaction.

**Precautionary statements** 

General: P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

**Prevention**: P261 - Avoid breathing gas, vapour or spray.

P280 - Wear protective gloves.

Response : P362 + P364 - Take off contaminated clothing and wash it before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.

Storage : Not applicable

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Supplemental label

elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

#### 2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0.1 %.

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

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### **SECTION 2: Hazards identification**

Other hazards which do not result in classification : Hazard of slipping on spilt product.

### **SECTION 3: Composition/information on ingredients**

: Mixture 3.2 Mixtures

Product/ingredient name	Identifiers	%	Classification	Type
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≥75 - ≤90	Asp. Tox. 1, H304	[1]
Distillates (petroleum), solvent- dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6	≤3	Asp. Tox. 1, H304	[1]
Distillates (petroleum), solvent- dewaxed light paraffinic	REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9 Index: 649-469-00-9	≤3	Asp. Tox. 1, H304	[1]
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≤3	Asp. Tox. 1, H304	[1]
Distillates (petroleum), solvent- refined light paraffinic	REACH #: 01-2119487067-30 EC: 265-091-3 CAS: 64741-89-5	≤3	Asp. Tox. 1, H304	[1]
dihydro-3-(2-octadecenyl)furan- 2,5-dione	REACH #: 01-2120120387-61 EC: 266-561-0 CAS: 67066-88-0	<1	Skin Irrit. 2, H315 Skin Sens. 1A, H317	[1]
			See Section 16 for the full text of the H statements declared above.	

#### **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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### <u>Type</u>

[1] Substance classified with a health or environmental hazard

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

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#### **SECTION 4: First aid measures**

#### 4.1 Description of 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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

**Ingestion**: No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

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### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** products

: carbon monoxide carbon dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

#### 5.3 Advice for firefighters

**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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

#### SECTION 6: Accidental release measures

#### 6.1 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised 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".

6.2 Environmental precautions

: Avoid dispersal of spilt 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).

#### 6.3 Methods and material for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. 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.

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#### SECTION 6: Accidental release measures

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. 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.

## 6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 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.

#### 7.2 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

**Recommendations**: See exposure scenarios

Industrial sector specific : Not available.

solutions

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

**Biological Limit Values (BLV)** 

No exposure indices known.

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### **SECTION 8: Exposure controls/personal protection**

Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**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)

#### **DNELs/DMELs**

Product/substance	Type	Exposure	Value	Population	Effects
Distillates (petroleum), hydrotreated heavy paraffinic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
,	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
Distillates (petroleum), solvent- dewaxed heavy paraffinic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
dewaxed heavy paramine	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
Distillates (petroleum), solvent- dewaxed light paraffinic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
dewaxed light paramilic	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
Distillates (petroleum), hydrotreated light paraffinic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
ngrit paramino	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
Distillates (petroleum), solvent- refined light paraffinic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic

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### **SECTION 8: Exposure controls/personal protection**

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	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	1.19 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Long term	2.73 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			
	DNEL	Long term	5.58 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
dihydro-3-(2-octadecenyl)furan-	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
2,5-dione			bw/day	population	
	DNEL	Long term	21.16 mg/	Workers	Systemic
		Inhalation	m³		
	DNEL	Long term Dermal	3 mg/kg	Workers	Systemic
			bw/day		

#### **PNECs**

Product/substance	Compartment Detail	Value	Method Detail
Distillates (petroleum), hydrotreated heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
dihydro-3-(2-octadecenyl)furan-2,5-dione	Fresh water sediment	340 mg/kg	-
	Marine water sediment	34 mg/kg	-
	Soil	40 mg/kg	-
	Sewage Treatment Plant	8 mg/l	-
	Fresh water	10 μg/l	_
	Marine water	1 µg/l	-

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Skin protection

Hand protection

: safety glasses with side-shields, EN 166.

: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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### **SECTION 8: Exposure controls/personal protection**

Hydrocarbon-proof gloves

nitrile rubber Fluorinated 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.

In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 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

: Wear work clothing with long sleeves.

**Body protection** Non-skid safety shoes or boots

**Respiratory protection** : Ensure adequate ventilation and check that a safe, breathable atmosphere is

> present before entry into confined spaces. In case of inadequate ventilation wear respiratory protection: 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.

**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.

### **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

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Clear]

Colour : Clear.

**Odour** : Characteristic. Melting point/freezing point : Not applicable.

Initial boiling point and

boiling range

Flash point

: >316°C (>600.8°F) [ISO 3405]

Flammability (solid, gas) : Not applicable. Upper/lower flammability or : Lower: 0.9% Upper: 7%

explosive limits

: Open cup: 210°C (410°F) [Cleveland Open Cup (COC)]

: >210°C (>410°F) [ASTM E 659] **Auto-ignition temperature** 

**Decomposition temperature** : Not applicable.

: Not applicable. Product is non-soluble (in water). рH

Dynamic (room temperature): Not available. **Viscosity** 

Kinematic (room temperature): Not available. Kinematic (40°C): 47.4 mm<sup>2</sup>/s [ISO 3104]

Solubility(ies)

Media	Result
water	Not soluble

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### SECTION 9: Physical and chemical properties

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

: <0.013 kPa (<0.1 mm Hg) [room temperature] Vapour pressure

Not applicable. [50°C (122°F)]

: 0.847 [ISO 12185] Relative density

: 0.847 g/cm³ [15°C (59°F)] [ISO 12185] **Density** 

Vapour density : >2 [Air = 1]

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

### SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

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

No smoking.

10.5 Incompatible materials : Strong oxidising agents

10.6 Hazardous

: carbon monoxide carbon dioxide decomposition products phosphorus oxides

sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

### SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Acute toxicity**

Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat - Male, Female	>5 mg/l	4 hours	OECD 403 Read across
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-	OECD 402 Read across
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403

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### **SECTION 11: Toxicological information**

•					
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 420
Distillates (petroleum),	LC50 Inhalation Dusts	Rat	>5 mg/l	4 hours	OECD 403
solvent-dewaxed light	and mists		, and the second		
paraffinic					
'	LD50 Dermal	Rabbit	>5000 mg/kg	_	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	_	OECD 401
Distillates (petroleum),	LC50 Inhalation Dusts	Rat	>5 mg/l	4 hours	OECD 403
hydrotreated light paraffinic	and mists		J		
, , , ,	LD50 Dermal	Rabbit	>5000 mg/kg	_	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	_	OECD 420
Distillates (petroleum),	LC50 Inhalation Dusts	Rat	5.1 mg/l	4 hours	OECD 403
solvent-refined light	and mists		J. T. T. J. T.		
paraffinic					
F	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 420
dihydro-3-(2-octadecenyl)	LD50 Dermal	Rat	>2000 mg/kg	-	402
furan-2,5-dione					
141411 2,0 410110	LD50 Oral	Rat	>2000 mg/kg	_	425
	2200 0141	I tut	- 2000 mg/kg		120

#### **Acute toxicity estimates**

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapours)	Inhalation (dusts and mists) (mg/l)
istillates (petroleum), solvent-refined light paraffinic	N/A	N/A	N/A	N/A	5.1

**Conclusion/Summary** 

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

**Irritation/Corrosion** 

**Conclusion/Summary** 

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.

**Sensitisation** 

**Conclusion/Summary** 

Skin : Based on available data, the classification criteria are 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

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

**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.

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

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### **SECTION 11: Toxicological information**

Specific target organ toxicity (repeated exposure)

Not available.

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

**Aspiration hazard** 

Product/substance	Result
Distillates (petroleum), hydrotreated heavy paraffinic Distillates (petroleum), solvent-dewaxed heavy paraffinic Distillates (petroleum), solvent-dewaxed light paraffinic Distillates (petroleum), hydrotreated light paraffinic Distillates (petroleum), solvent-refined light paraffinic	ASPIRATION HAZARD - Category 1

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

Information on likely routes

of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.

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

skin reaction.

**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 redness dryness cracking

**Ingestion** : No specific data.

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

**Short term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary : Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed

to very low levels.

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### **SECTION 11: Toxicological information**

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.

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

#### 11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LL50 >1000 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
Distillates (petroleum), solvent-dewaxed light paraffinic	Acute EL50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EL50 10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute EL50 ≥100 mg/l	Fish - Pimephales promelas	96 hours	OECD 203
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
Distillates (petroleum), hydrotreated light paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchnerella subcapitata	48 hours	OECD 201
	Acute EC50 >10000 mg/l Chronic NOEL 10 mg/l Chronic NOEL >1000 mg/l	Daphnia - Daphnia magna Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 21 days 21 days	OECD 202 OECD 211 -

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## **SECTION 12: Ecological information**

Distillates (petroleum),	Acute EC50 >100 mg/l	Algae -	48 hours	OECD 201
solvent-refined light		Pseudokirchnerella		
paraffinic		subcapitata		
	Acute EC50 >10000 mg/l	Daphnia - Daphina Magna	48 hours	OECD 202
	Chronic NOEL 10 mg/l	Daphnia - Daphina Magna	21 days	OECD 211
	Chronic NOEL >1000 mg/l	Fish - Oncorhynchus	21 days	-
		mykiss	-	
dihydro-3-(2-octadecenyl)	Acute LC50 >10 mg/l	Fish - Leuciscus idus	96 hours	OECD 203
furan-2,5-dione				
	Chronic NOEC ≥10 mg/l	Fish - Leuciscus idus	96 hours	OECD 203

**Conclusion/Summary**: Not available.

#### 12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
- -	OECD 301F	31 % - Not readily - 28 days 31 % - Not readily - 28 days 31 % - Not readily - 28 days	-	Activated sludge Activated sludge Activated sludge

**Conclusion/Summary**: Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum),	-	-	Not readily
hydrotreated heavy paraffinic			
Distillates (petroleum),	-	-	Not readily
solvent-dewaxed heavy			-
paraffinic			
Distillates (petroleum),	-	-	Not readily
solvent-dewaxed light			
paraffinic			
dihydro-3-(2-octadecenyl)	-	-	Readily
furan-2,5-dione			

#### 12.3 Bioaccumulative potential

Product/substance	LogP <sub>ow</sub>	BCF	Potential
istillates (petroleum), hydrotreated heavy paraffinic	>4	-	High
Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.2	260	Low
Distillates (petroleum), solvent-dewaxed light paraffinic	3.1	-	Low
dihydro-3-(2-octadecenyl) furan-2,5-dione	9.36	-	High

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: 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

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### **SECTION 12: Ecological information**

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration >= 0,1 %.

#### 12.6 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimised 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.

#### **Hazardous waste**

: Yes.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 13 02 05\*

#### **Packaging**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

#### **Special precautions**

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-

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## **SECTION 14: Transport information**

<u> </u>				
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : 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.

14.7 Maritime transport in bulk according to IMO

instruments

: Not available.

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture **UK (GB)/REACH** 

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

**Ozone depleting substances** 

Not listed.

**Prior Informed Consent (PIC)** 

Not listed.

**Persistent Organic Pollutants** 

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**EU regulations** 

Take note of Dir 94/33/EC on the protection of young people at work.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Industrial emissions** (integrated pollution prevention and control) - : Not listed

Air

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### SECTION 15: Regulatory information

Industrial emissions

: Not listed

(integrated pollution prevention and control) -

Water

**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)** : Not determined.

Canada inventory : All components are listed or exempted. China inventory (IECSC) : All components are listed or exempted. : All components are listed or exempted. **Europe inventory** 

: Japan inventory (CSCL): All components are listed or Japan inventory

exempted.

Japan inventory (ISHL): Not determined.

**New Zealand Inventory of Chemicals** 

(NZIoC)

: All components are listed or exempted.

**Philippines inventory (PICCS)** : All components are listed or exempted. **Korea inventory (KECI)** : All components are listed or exempted. **Taiwan Chemical Substances Inventory** : All components are listed or exempted.

(TCSI)

: Not determined. **Thailand inventory** : Not determined. **Turkey inventory** 

**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.

15.2 Chemical safety

assessment

See exposure scenarios

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### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration

LC50 = Median lethal concentration

LD50 = Median lethal dose

OEL = Occupational Exposure Limit VOC = Volatile Organic Compound

UVCB Substance of unknown or Variable composition, Complex reaction products

or Biological material

NOEC No Observed Effect Concentration

QSAR = Quantitative Structure-Activity Relationship

#### Procedure used to derive the classification

Classification	Justification	
Skin Sens. 1, H317	Calculation method	

#### Full text of abbreviated H statements

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

#### Full text of classifications

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1A SKIN SENSITISATION - Category 1A

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#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

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#### **Annex to the extended Safety Data Sheet (eSDS)**

Industrial

#### Identification of the substance or mixture

Product definition : Mixture Code : 091127

Product name : QUARTZ 9000 FUTURE GF6 0W-20

Section 1 - Title

Short title of the exposure

scenario

: Formulation additives, lubricants and greases - Industrial

List of use descriptors

: Identified use name: Formulation additives, lubricants and greases - Industrial Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a,

PROC08b, PROC09, PROC15 Sector of end use: SU03, SU10

Subsequent service life relevant for that use: No.

**Environmental Release Category:** ERC02

Health Contributing scenarios

: General measures applicable to all activities

General exposures Use in contained systems Elevated temperature - PROC02 Mixing operations Closed systems Batch processes at elevated temperatures -

PROC03

Mixing operations Open systems Batch processes at elevated temperatures -

PROC04, PROC05

Mixing operations (open systems) - PROC04, PROC05

Process sampling - PROC04, PROC08b

Bulk transfers Dedicated facility - PROC08b

Drum/batch transfers Dedicated facility - PROC08b

Drum/batch transfers Non-dedicated facility - PROC08a

Equipment cleaning and maintenance - PROC08a, PROC08b

Drum and small package filling - PROC09

Laboratory activities - PROC15 Storage - PROC01, PROC02

Processes and activities covered by the exposure scenario

: Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small scale packing, sampling, maintenance.

#### **Section 2 - Exposure controls**

Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

Concentration of

substance in mixture or

article

: Covers percentage substance in the product up to 100 %. (unless stated differently)

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure

Amounts used : Not applicable.

Frequency and duration of

use/exposure

**Physical state** 

: Covers daily exposures up to 8 hours (unless stated differently)

Human factors not influenced by risk

influenced by risk management

: Not applicable.

Other operational

: Covers percentage substance in the product up to 100% (unless stated differently)

conditions affecting worker

exposure

Conditions and measures related to personal protection, hygiene and health evaluation

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## Formulation additives, lubricants and greases

Advice on general occupational hygiene Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

**Personal protection** 

: Use suitable eye protection.

#### Contributing scenario controlling worker exposure for 3: General exposures Use in contained systems **Elevated temperature**

No other specific measures identified.

Contributing scenario controlling worker exposure for 4: Mixing operations Closed systems Batch processes at elevated temperatures

**Ventilation control** 

measures

: Provide extract ventilation to points where emissions occur.

Contributing scenario controlling worker exposure for 5: Mixing operations Open systems Batch processes at elevated temperatures

Frequency and duration of

use/exposure

: Avoid carrying out activities involving exposure for more than 4 hours.

**Ventilation control** 

measures

: Provide extract ventilation to points where emissions occur.

Contributing scenario controlling worker exposure for 6: Mixing operations (open systems)

**Ventilation control** measures

: Provide extract ventilation to points where emissions occur.

Contributing scenario controlling worker exposure for 7: Process sampling

Frequency and duration of

: Avoid carrying out activities involving exposure for more than 1 hour per day.

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

**Personal protection** 

: Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.

Contributing scenario controlling worker exposure for 8: Bulk transfers Dedicated facility

Frequency and duration of

: Avoid carrying out activities involving exposure for more than 4 hours.

use/exposure

Conditions and measures related to personal protection, hygiene and health evaluation

**Personal protection** 

: Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.

Contributing scenario controlling worker exposure for 9: Drum/batch transfers Dedicated facility

**Ventilation control** 

measures

: Provide extract ventilation to points where emissions occur.

Contributing scenario controlling worker exposure for 10: Drum/batch transfers Non-dedicated facility

Frequency and duration of

use/exposure

: Avoid carrying out activities involving exposure for more than 1 hour per day.

**Ventilation control** measures

: Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour).

Conditions and measures related to personal protection, hygiene and health evaluation

**Personal protection** 

: Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.

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Contributing scenario controlling worker exposure for 11: Equipment cleaning and maintenance

Technical conditions and

: Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

measures to control dispersion from source towards the worker

**Engineering controls** : Drain down and flush system prior to equipment break-in or maintenance.

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene : Clear spills immediately.

**Personal protection** : Wear chemically resistant gloves (tested to EN374) in combination with intensive

management supervision controls.

Contributing scenario controlling worker exposure for 12: Drum and small package filling

**Ventilation control** measures

: Provide a good standard of general or controlled ventilation (10 to 15 air changes

per hour).

Conditions and measures related to personal protection, hygiene and health evaluation

: Wear chemically resistant gloves (tested to EN374) in combination with specific **Personal protection** 

activity training.

Contributing scenario controlling worker exposure for 13: Laboratory activities

Frequency and duration of

: Avoid carrying out activities involving exposure for more than 4 hours.

use/exposure

Contributing scenario controlling worker exposure for 14: Storage

**Engineering controls** : Store substance within a closed system.

#### Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

Exposure estimation and reference to its source - Environment: 1:

**Exposure assessment** 

(environment):

: Used ECETOC TRA model.

**Exposure estimation and** reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

**Exposure assessment** 

(human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and** reference to its source

: Not available.

Exposure estimation and reference to its source - Workers: 3: General exposures Use in contained systems

Elevated temperature **Exposure assessment** 

(human):

The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and** 

: Not available.

reference to its source

Exposure estimation and reference to its source - Workers: 4: Mixing operations Closed systems Batch processes at elevated temperatures

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and** reference to its source

: Not available.

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## Exposure estimation and reference to its source - Workers: 5: Mixing operations Open systems Batch processes at elevated temperatures

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

#### Exposure estimation and reference to its source - Workers: 6: Mixing operations (open systems)

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

Exposure estimation and reference to its source

: Not available.

#### Exposure estimation and reference to its source - Workers: 7: Process sampling

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

Exposure estimation and reference to its source

: Not available.

#### Exposure estimation and reference to its source - Workers: 8: Bulk transfers Dedicated facility

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

#### Exposure estimation and reference to its source - Workers: 9: Drum/batch transfers Dedicated facility

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

#### Exposure estimation and reference to its source - Workers: 10: Drum/batch transfers Non-dedicated facility

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

#### Exposure estimation and reference to its source - Workers: 11: Equipment cleaning and maintenance

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

Exposure estimation and reference to its source

: Not available.

#### Exposure estimation and reference to its source - Workers: 12: Drum and small package filling

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

#### Exposure estimation and reference to its source - Workers: 13: Laboratory activities

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

Exposure estimation and reference to its source

: Not available.

#### Exposure estimation and reference to its source - Workers: 14: Storage

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

Exposure estimation and reference to its source

: Not available.

#### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction.
Health	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction.

### Additional good practice advice beyond the REACH CSA

Environment	: Not available.
Health	: Not available.

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#### Annex to the extended Safety Data Sheet (eSDS)

Industrial

#### Identification of the substance or mixture

Product definition : Mixture Code : 091127

Product name : QUARTZ 9000 FUTURE GF6 0W-20

Section 1 - Title

Short title of the exposure

scenario

: General use of lubricants and greases in vehicles or machinery - Industrial

List of use descriptors : Identified use name: General use of lubricants and greases in vehicles or

machinery - Industrial

Process Category: PROC01, PROC02, PROC08b, PROC09

Sector of end use: SU03

Subsequent service life relevant for that use: No. Environmental Release Category: ERC04, ERC07

Health Contributing scenarios

: General measures applicable to all activities General exposures (closed systems) - PROC01

Initial factory fill of equipment Use in contained systems - PROC02, PROC09

Initial factory fill of equipment Open systems - PROC08b

Operation of equipment containing engine oils and similar Use in contained

systems - PROC01

Equipment cleaning and maintenance - PROC08b

Equipment cleaning and maintenance Operation is carried out at elevated

temperature (> 20°C above ambient temperature) - PROC08b

Storage - PROC01, PROC02

Processes and activities covered by the exposure scenario

Covers general use of lubricants and greases in vehiculs or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

### **Section 2 - Exposure controls**

Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

Concentration of substance in mixture or

: Covers percentage substance in the product up to 100% (unless stated differently).

article

**Physical state** 

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure.

Frequency and duration of use/exposure

: Covers daily exposures up to 8 hours (unless stated differently).

Other operational

conditions affecting worker exposure

: Assumes use at not more than 20°C above ambient temperature, unless stated differently. unless stated differently.

Assumes a good basic standard of occupational hygiene has been implemented.

7 to carried a good basic startaged of coodpational riggions ride book imple

Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

**Personal protection**: Use suitable eye protection.

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General use of lubricants and greases in vehicles or machinery - Industrial

Contributing scenario controlling worker exposure for 3: General exposures (closed systems)

No other specific measures identified.

Contributing scenario controlling worker exposure for 4: Initial factory fill of equipment Use in contained systems

No other specific measures identified.

Contributing scenario controlling worker exposure for 5: Initial factory fill of equipment Open systems

Frequency and duration of

use/exposure

**Ventilation control** measures

: Avoid carrying out activities involving exposure for more than 4 hours.

: Provide a good standard of general or controlled ventilation (10 to 15 air changes per hour)

Contributing scenario controlling worker exposure for 6: Operation of equipment containing engine oils and similar Use in contained systems

No other specific measures identified.

Contributing scenario controlling worker exposure for 7: Equipment cleaning and maintenance

**Technical conditions and** measures at process level (source) to prevent release : Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

: Drain down system prior to equipment break-in or maintenance.

**Ventilation control** measures

**Engineering controls** 

: Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Conditions and measures related to personal protection, hygiene and health evaluation

**Personal protection** : Wear chemically resistant gloves (tested to EN374) in combination with specific activity training.

Contributing scenario controlling worker exposure for 8: Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature)

**Technical conditions and** 

measures to control dispersion from source towards the worker

: Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

: Drain down system prior to equipment break-in or maintenance.

**Engineering controls Ventilation control** measures

: Provide extract ventilation to emission points when contact with warm (>50°C) lubricant is likely.

Conditions and measures related to personal protection, hygiene and health evaluation

**Personal protection** 

: Wear chemically resistant gloves (tested to EN374) in combination with intensive management supervision controls.

Contributing scenario controlling worker exposure for 9: Storage

: Store substance within a closed system. **Engineering controls** 

#### Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:** 

**Exposure assessment** (environment):

: Used ECETOC TRA model.

**Exposure estimation and** reference to its source

: Not available.

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#### Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

Exposure estimation and reference to its source

: Not available.

#### Exposure estimation and reference to its source - Workers: 3: General exposures (closed systems)

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

## Exposure estimation and reference to its source - Workers: 4: Initial factory fill of equipment Use in contained systems

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

Exposure estimation and reference to its source

: Not available.

#### Exposure estimation and reference to its source - Workers: 5: Initial factory fill of equipment Open systems

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

## Exposure estimation and reference to its source - Workers: 6: Operation of equipment containing engine oils and similar Use in contained systems

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

#### Exposure estimation and reference to its source - Workers: 7: Equipment cleaning and maintenance

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

## Exposure estimation and reference to its source - Workers: 8: Equipment cleaning and maintenance Operation is carried out at elevated temperature (> 20°C above ambient temperature)

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

Exposure estimation and reference to its source - Workers: 9: Storage

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Date of issue/Date of revision : 11/26/2020 26/30

QUARTZ 9000 FUTUR	RE GF6 0W-20	General use of lubricants and greases in vehicles or machinery - Industrial
Environment  Health	all sites; thus, scali management meas provided in SPERC RCRs > 1), additior required. For furthe : Where other risk m users should ensur	on assumed operating conditions which may not be applicable to ng may be necessary to define appropriate site-specific risk sures. Further details on scaling and control technologies are a factsheet. If scaling reveals a condition of unsafe use (i.e., nal RMMs or a site-specific chemical safety assessment is a information see www.atiel.org/reach/introduction. anagement measures/operational conditions are adopted, then that risks are managed to at least equivalent levels. For further tw.atiel.org/reach/introduction.

## Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

Date of issue/Date of revision : 11/26/2020 27/30

#### Annex to the extended Safety Data Sheet (eSDS)

**Professional** 

#### Identification of the substance or mixture

Product definition : Mixture Code : 091127

Product name : QUARTZ 9000 FUTURE GF6 0W-20

Section 1 - Title

Short title of the exposure

List of use descriptors

scenario

General use of lubricants and greases in vehicles or machinery - Professional
 Identified use name: General use of lubricants and greases in vehicles or

machinery - Professional

Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC20

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b

Health Contributing scenarios

: General measures applicable to all activities

Operation of equipment containing engine oils and similar Use in contained

systems - PROC01

Material transfers Non-dedicated facility - PROC08a

Equipment cleaning and maintenance Dedicated facility - PROC08b, PROC20

Storage - PROC01, PROC02

Processes and activities covered by the exposure scenario

: Covers general use of lubricants and greases in vehiculs or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

#### **Section 2 - Exposure controls**

#### Contributing scenario controlling environmental exposure for 1:

No exposure scenario required

#### Contributing scenario controlling worker exposure for 2: General measures applicable to all activities

Concentration of substance in mixture or article

: Covers percentage substance in the product up to 100% (unless stated differently).

Physical state
Frequency and duration of

: Liquid, vapour pressure < 0.5 kPa at Standard Temperature and Pressure.

use/exposure
Other operational

: Covers daily exposures up to 8 hours (unless stated differently).

conditions affecting worker exposure

: Assumes use at not more than 20°C above ambient temperature, unless stated differently, unless stated differently.

Assumes a good basic standard of occupational hygiene has been implemented.

#### Conditions and measures related to personal protection, hygiene and health evaluation

Advice on general occupational hygiene

: Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN 374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop. Avoid direct eye contact with product, also via contamination on hands.

Personal protection : Use suitable eye protection.

Contributing scenario controlling worker exposure for 3: Operation of equipment containing engine oils and similar Use in contained systems

No other specific measures identified.

General use of lubricants and greases in vehicles or machinery - Professional

Contributing scenario controlling worker exposure for 4: Material transfers Non-dedicated facility

Frequency and duration of

use/exposure

: Avoid carrying out activities involving exposure for more than 4 hours.

Conditions and measures related to personal protection, hygiene and health evaluation

**Personal protection** 

: Wear chemically resistant gloves (tested to EN374) in combination with specific

activity training.

Contributing scenario controlling worker exposure for 5: Equipment cleaning and maintenance Dedicated

facility

Technical conditions and measures at process level (source) to prevent release

: Retain drain-downs in sealed storage pending disposal or for subsequent recycle.

**Engineering controls**: Drain down system prior to equipment break-in or maintenance.

Contributing scenario controlling worker exposure for 6: Storage

**Engineering controls** : Store substance within a closed system.

#### Section 3 - Exposure estimation and reference to its source

Website: : Not applicable.

**Exposure estimation and reference to its source - Environment: 1:** 

**Exposure assessment** 

(environment):

: Used ECETOC TRA model.

**Exposure estimation and reference to its source** 

: Not available.

Exposure estimation and reference to its source - Workers: 2: General measures applicable to all activities

**Exposure assessment** 

(human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment

that covers this product.

Exposure estimation and reference to its source

nd : Not available.

Exposure estimation and reference to its source - Workers: 3: Operation of equipment containing engine oils and similar Use in contained systems

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

Exposure estimation and reference to its source - Workers: 4: Material transfers Non-dedicated facility

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

Exposure estimation and reference to its source - Workers: 5: Equipment cleaning and maintenance Dedicated facility

Exposure assessment (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

**Exposure estimation and reference to its source** 

: Not available.

Date of issue/Date of revision : 11/26/2020

#### Exposure estimation and reference to its source - Workers: 6: Storage

**Exposure assessment** (human):

: The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.

Exposure estimation and reference to its source

: Not available.

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to
	all sites; thus, scaling may be necessary to define appropriate site-specific risk
	management measures. Further details on scaling and control technologies are
	provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e.,
	RCRs > 1), additional RMMs or a site-specific chemical safety assessment is
	required. For further information see www.atiel.org/reach/introduction.
Health	: Where other risk management measures/operational conditions are adopted, then
	users should ensure that risks are managed to at least equivalent levels. For further
	information see www.atiel.org/reach/introduction.

### Additional good practice advice beyond the REACH CSA

Environment : Not available.

Health : Not available.

Date of issue/Date of revision : 11/26/2020 30/30