

## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

## QUARTZ 9000 ENERGY 0W-40

**SDS # :** 081913

### Section 1. Identification

**GHS product identifier** 

: QUARTZ 9000 ENERGY 0W-40

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

Identified uses	
Motor 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 Puerto Rico Corp Millennium Park Plaza, #15 Road 2, Suite 525 Guaynabo, P.R. 00968 Phone: 1-787-783-4625

### 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

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OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: May cause damage to organs through prolonged or repeated exposure. (liver)
Precautionary statements	
Prevention	: Do not breathe vapor.
Response	: Get medical advice or attention if you feel unwell.
Storage	: Not applicable.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.



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## Section 3. Composition/information on ingredients

: Mixture

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Ingredient name	% (w/w)	CAS number
Distillates (petroleum), hydrotreated heavy paraffinic	≥25 - ≤50	64742-54-7
Dec-1-ene, trimers, hydrogenated	≥10 - ≤25	157707-86-3
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	≤5	72623-86-0
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	≤5	72623-87-1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	≤3	64742-65-0
Distillates (petroleum), solvent-dewaxed light paraffinic	≤3	64742-56-9
C14-16-18 Alkyl phenol	≤3	-
Paraffin oils (petroleum), catalytic dewaxed heavy	≤3	64742-70-7
zinc bis(O,O-diisooctyl) bis(dithiophosphate)	≤3	28629-66-5

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

Additional: Mineral oil of petroleum origin. Product containing mineral oil with less than 3% DMSO extract<br/>as measured by IP 346 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 evelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. 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 following exposure or if feeling unwell. 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 recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. 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 following exposure or if feeling unwell. 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.



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### Most important symptoms/effects, acute and delayed

most important sympto	<u>Mis/encers, acute and delayed</u>	
Potential acute health	<u>effects</u>	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.	
Ingestion	: No known significant effects or critical hazards.	
Over-exposure signs/	<u>symptoms</u>	
Eye contact	: No specific data.	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking	
Ingestion	: No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	

Specific treatments : No specific treatment.

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.

### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

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.
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 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.



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## Section 6. Accidental release measures

Personal precautions, protect	tive 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 co	ontainment 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.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.



**Control parameters** 

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## Section 8. Exposure controls/personal protection

#### **Occupational exposure limits Ingredient name Exposure limits** Distillates (petroleum), hydrotreated heavy paraffinic ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL **MIST MINERAL]** TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m<sup>3</sup> 8 hours. Dec-1-ene, trimers, hydrogenated None. Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m<sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based NIOSH REL (United States, 10/2020). [OIL MIST MINERAL1 TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist Distillates (petroleum), solvent-dewaxed heavy paraffinic OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m<sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist OSHA PEL (United States, 5/2018). [Oil Distillates (petroleum), solvent-dewaxed light paraffinic mist, mineral] TWA: 5 mg/m<sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL **MIST MINERAL1**

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C14-16-18 Alkyl phenol Paraffin oils (petroleum), catalytic dewaxed heavy	TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist None. OSHA PEL (United States, 5/2018). [Oil mist, mineral] TWA: 5 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 1/2022). [Mineral Oil, pure, highly and severely refined] TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2020). [OIL MIST MINERAL] TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist
zinc bis(O,O-diisooctyl) bis(dithiophosphate)	None.

### **Biological exposure indices**

No exposure indices known.

Advisory OEL	:	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIC 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined		A 5 mg/m3, S	TEL
Appropriate engin controls	eering :	If user operations generate dust, fumes, gas, vapor or r local exhaust ventilation or other engineering controls to airborne contaminants below any recommended or stat	o keep worker e		3,
Environmental exp controls	oosure :	Emissions from ventilation or work process equipment they comply with the requirements of environmental pro cases, fume scrubbers, filters or engineering modification will be necessary to reduce emissions to acceptable level	otection legislati	on. In some	
Individual protecti	on measures				
Hygiene measure	es :	Wash hands, forearms and face thoroughly after handli eating, smoking and using the lavatory and at the end of Appropriate techniques should be used to remove pote Wash contaminated clothing before reusing. Ensure the showers are close to the workstation location.	of the working pentially contamin	eriod. ated clothing	
Eye/face protecti	on :	Safety eyewear complying with an approved standard s assessment indicates this is necessary to avoid exposu gases or dusts. If contact is possible, the following pro- the assessment indicates a higher degree of protection shields.	ure to liquid spla tection should b	ashes, mists, be worn, unles	SS
Skin protection					
Hand protectior	1 :	Chemical-resistant, impervious gloves complying with a worn at all times when handling chemical products if a necessary. Considering the parameters specified by th during use that the gloves are still retaining their protect noted that the time to breakthrough for any glove mater glove manufacturers. In the case of mixtures, consistin protection time of the gloves cannot be accurately estin Hydrocarbon-proof gloves Fluorinated rubber nitrile rubber	risk assessmen ne glove manufa tive properties. rial may be diffe ng of several sul nated.	It indicates thi acturer, check It should be rent for differ bstances, the	is is c rent
		Please observe the instructions regarding permeability provided by the supplier of the gloves. Also take into co conditions under which the product is used, such as the the contact time.	onsideration the	specific local	I
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Body protection	<ul> <li>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.</li> </ul>
Respiratory protection	: Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. In case of insufficient ventilation, wear suitable respiratory equipment. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

## 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

Partition coefficient: n-	:	Not applicable.		
Miscible with water	:	No.		
water		Not soluble		
Media		Result		
Solubility(ies)	1			
Density	1	0.839 to 0.849 g/cm³ [15°C] [ISO 12185]		
Relative density	1	0.839 to 0.849 [ISO 12185]		
Vapor density	:	: >2 [Air = 1]		
Vapor pressure		<0.013 kPa (<0.1 mm Hg) [room temperature] Not applicable. [50°C]		
Lower and upper explosive (flammable) limits		∟ower: 0.9% Jpper: 7%		
Flammability (solid, gas)		Not applicable.		
Evaporation rate	1	Not available.		
Flash point	1	Open cup: 200°C (392°F) [ASTM D 92]		
Boiling point	:	>316°C (>600.8°F) [ISO 3405]		
Melting point/freezing point	:	Technically not possible to measure		
рН	:	ot applicable.		
Odor threshold	:	lot available.		
Odor	:	Characteristic.		
Color	:	Clear.		
Physical state	:	Liquid. [limpid]		

: Not applicable.
: >200°C (>392°F) [ASTM E 659]
: Not applicable.
: Kinematic (40°C (104°F)): 76.4 mm²/s (76.4 cSt) [ISO 3104]
: Not available.
: Not applicable.



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## 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 phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

## Section 11. Toxicological information

### Information on toxicological effects

Acuto	toxicity
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Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum),	LC50 Inhalation Dusts	Rat - Male,	>5 mg/l	4 hours	OECD 403
hydrotreated heavy paraffinic	and mists	Female	_		Read across
	LD50 Dermal	Rabbit - Male,	>5000 mg/kg	-	OECD 402
		Female			Read across
	LD50 Oral	Rat - Male,	>5000 mg/kg	-	OECD 401
		Female			Read across
Dec-1-ene, trimers, hydrogenated	LC50 Inhalation Vapor	Rat	1.17 mg/l	4 hours	OECD 403
, ,	LC50 Inhalation Vapor	Rat	0.9 mg/l	4 hours	OECD 403
	LC50 Inhalation Vapor	Rat	1.4 mg/l	4 hours	OECD 403
	LD50 Dermal	Rat	>3000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401
Lubricating oils (petroleum),	LC50 Inhalation Dusts	Rat	5.53 mg/l	4 hours	OECD 403
C15-30, hydrotreated neutral oil-based	and mists				
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401
Lubricating oils (petroleum),	LC50 Inhalation Dusts	Rat	5.1 mg/l	4 hours	OECD 403
C20-50, hydrotreated neutral oil-based	and mists				
	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	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403
paraffinic					
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1	LD50 Dermal	Rabbit	>5000 mg/kg	1	OECD 402		
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 402 OECD 420		
Distillatos (potroloum)	LC50 Inhalation Dusts	Rat	>5 mg/l	- 4 hours	OECD 420 OECD 403		
Distillates (petroleum), solvent-dewaxed light	and mists	Rai	~5 mg/i	4 nours	0ECD 403		
paraffinic							
paramine	LD50 Dermal	Rabbit	>5000 mg/kg		OECD 402		
	LD50 Oral	Rat	>5000 mg/kg		OECD 401		
C14-16-18 Alkyl phenol	LD50 Dermal	Rat	2000 mg/kg	_	-		
	LD50 Oral	Rat	2000 mg/kg	-	_		
Paraffin oils (petroleum),	LC50 Inhalation Dusts	Rat	5.1 mg/l	4 hours	-		
catalytic dewaxed heavy	and mists		5				
	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	-		
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-		
	LD50 Dermal	Rabbit	>5000 mg/kg	-	-		
	LD50 Oral	Rat	>5000 mg/kg	-	-		
zinc bis(O,O-diisooctyl) bis	LC50 Inhalation Dusts	Rat	5.1 mg/l	4 hours	-		
(dithiophosphate)	and mists						
	LC50 Inhalation Vapor	Rat	80.4 mg/l	1 hours	-		
	LC50 Inhalation Vapor	Rat	20.1 mg/l	4 hours	-		
	LD50 Dermal	Rat	3001 mg/kg	-	OECD 402		
	LD50 Oral	Rat	3750 mg/kg	-	OECD 401		
Conclusion/Summary	: Based on available data	, the classificat	tion criteria are no	t met.			
Irritation/Corrosion		,					
		a					
Skin	: Based on available data,						
Eyes	: Based on available data,						
Respiratory	: Based on available data,	the classification	on criteria are not	met.			
<u>Sensitization</u>							
Skin	Skin : Based on available data, the classification criteria are not met. The supplier of one or more of the components contained within this formulation has indicated that he						
	has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required						
Desnington			•	mat			
Respiratory	: Based on available data,	, the classificati	on criteria are not	met.			
<u>Mutagenicity</u>							
<b>Conclusion/Summary</b>	: Based on available data,	the classification	on criteria are not	met.			
<b>Carcinogenicity</b>							
Conclusion/Summary	: Based on available data,	the classification	on criteria are not	met			
Reproductive toxicity							
Conclusion/Summary	: Based on available data,	the classification	on criteria are not	met.			
<u>Teratogenicity</u>							
Conclusion/Summary	: Based on available data,	, the classificati	on criteria are not	met.			
Specific target organ toxici							
Conclusion/Summary	: Based on available data,	the classificati	on criteria are not	met			
Specific target organ toxici		, and elacemeda		mou			
Name	Concerned avenuel	Cotomore	Route o	<b>.</b> 1	Torgot organs		
		Category	exposu		Target organs		
		O ata mana	-		liver		
C14-16-18 Alkyl phenol		Category	-		liver		
Conclusion/Summary	: Based on available data	. the classificat	tion criteria are me	et.			

**Conclusion/Summary** : Based on available data, the classification criteria are met.

**Aspiration hazard** 



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Name		Result		
Lubricating oils (petroleum),	enated C15-30, hydrotreated neutral oil-based C20-50, hydrotreated neutral oil-based ent-dewaxed heavy paraffinic ent-dewaxed light paraffinic	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		
Conclusion/Summary	: Based on available data, the classification	ation criteria are not met.		
Information on the likely routes of exposure	: Not available.			
Potential acute health effect	<u>'s</u>			
Eye contact	: No known significant effects or critical	hazards.		
Inhalation	: No known significant effects or critical	hazards.		
Skin contact	: Defatting to the skin. May cause skin			
Ingestion	: No known significant effects or critical	-		
Symptoms related to the ph	ysical, chemical and toxicological chara	<u>icteristics</u>		
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking			
Ingestion	: No specific data.			
Delayed and immediate effe	cts and also chronic effects from short a	and long term exposure		
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Potential chronic health ef Not available.	f <u>ects</u>			
General	: May cause damage to organs through	n prolonged or repeated exposure.		
Carcinogenicity	: No known significant effects or critical			
Mutagenicity	: No known significant effects or critical			
Reproductive toxicity	: No known significant effects or critical			
Numerical measures of toxi	city			

### Numerical measures of toxicity

Acute toxicity estimates



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Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
QUARTZ 9000 ENERGY 0W-40	261233.0	N/A	N/A	N/A	N/A
Dec-1-ene, trimers, hydrogenated	N/A	2500	N/A	N/A	N/A
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.53
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.1
Paraffin oils (petroleum), catalytic dewaxed heavy	N/A	N/A	N/A	20.1	5.1
zinc bis(O,O-diisooctyl) bis(dithiophosphate)	3750	3001	N/A	20.1	5.1

**Species** 

magna

magna

subcapitata

subcapitata

capricornutum

Algae - Pseudokirchneriella

Algae - Pseudokirchneriella

Crustaceans - Daphnia

Crustaceans - Daphnia

Algae - Scenedesmus

Daphnia - Americamysis

### **Other information**

**Product/substance** 

**Toxicity** 

Not available.

## Section 12. Ecological information

2

Result

	es (petroleum), ated heavy paraffinic	Acute EC50 >100 mg/l
.,		Acute EC50 >10000 mg/l
		Chronic NOEL >100 mg/l
		Chronic NOEL >1000 mg/l
	Dec-1-ene, trimers, hydrogenated	Acute EC50 >1000 mg/l
nyaroge	hated	Acute EC50 >5002 ppm
		Acute EC50 >150 mg/l Acute NOEL 1000 mg/l
		Acute NOEL 1000 mg/l

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		promelas	00 110013	
	Acute LL50 >100 mg/l	<i>magna</i> Fish - <i>Pimephales</i>	96 hours	OECD 203
oil-based	Acute EL50 >10000 mg/l	Crustaceans - Daphnia	48 hours	OECD 202
Lubricating oils (petroleum), C20-50, hydrotreated neutral	Acute EL50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	48 hours	OECD 201
		magna	2	
	Chronic NOEL >1000 mg/l	<i>subcapitata</i> Crustaceans - <i>Daphnia</i>	21 days	OECD 211
	Chronic NOEL >100 mg/l	Algae - Pseudokircheriella	72 hours	OECD 201
	Acute LL50 >1000 mg/l	magna Fish - Pimephales promelas	96 hours	OECD 203
	Acute EL50 >10000 mg/l	Crustaceans - Daphnia	48 hours	OECD 202
C15-30, hydrotreated neutral oil-based		subcapitata		
Lubricating oils (petroleum),	Acute EL50 >100 mg/l	Algae - Pseudokircheriella	72 hours	OECD 201
	Chronic NOEL 125 mg/l	<i>mykiss</i> Daphnia - <i>Daphnia magna</i>	21 days	OECD 211
	Acute NOEL 1000 mg/l	Fish - Oncorhynchus	96 hours	-
	Acute NOEL 1000 mg/l	Algae - Scenedesmus capricornutum	72 hours	OECD 201
	Acute EC50 >150 mg/l	Daphnia - Daphnia magna	48 hours	-
		bahia	30 110013	

**Exposure** 

72 hours

48 hours

72 hours

21 days

72 hours

96 hours

Test

\_

**OECD 201** 

**OECD 202** 

**OECD 201** 

**OECD 201** 

**OECD 202** 



TotalEnergies				SDS # :	081913
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECI	D 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECI	D 211
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECI	0 202
	Acute LL50 >1000 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECI	D 203
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECI	D 211
Distillates (petroleum), solvent-dewaxed light paraffinic	Acute EL50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECI	D 201
	Acute EL50 10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECI	D 202
	Acute EL50 ≥100 mg/l	Fish - Pimephales promelas	96 hours	OECI	D 203
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECI	D 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECI	D 211
C14-16-18 Alkyl phenol	Acute EC50 >100 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours	OECI	D 202
Paraffin oils (petroleum), catalytic dewaxed heavy	Acute EC50 10000 mg/l	Daphnia	48 hours	-	
	Acute NOEL 101 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	-	
zinc bis(O,O-diisooctyl) bis (dithiophosphate)	Acute EC50 1 to 1.5 mg/l	Daphnia	48 hours	OECI	0 202
	Acute LC50 10 mg/l	Fish	96 hours	-	

### Persistence and degradability

	1_	1		1_	
Product/substance	Test	Result		Dose	Inoculum
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily	- 28 days	-	Activated sludge
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	OECD 301F	31 % - Not readily	- 28 days	-	Activated sludge
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301F	31 % - Not readily ·	- 28 days	-	Activated sludge
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F	31 % - Not readily	- 28 days	-	Activated sludge
Distillates (petroleum), solvent-dewaxed light paraffinic	OECD 301F	31 % - Not readily ·	- 28 days	-	Activated sludge
Product/substance	Aquatic half-life		Photolysi	S	Biodegradability
Distillates (petroleum), hydrotreated heavy paraffinic	-		-		Not readily
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	-		-		Not readily
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	-		-		Not readily
Distillates (petroleum), solvent-dewaxed heavy	-		-		Not readily
Date of revision : 2023/09/21		4.01			USA ENGLISH 12/1



TotalEnergies			SDS # :	081913
paraffinic Distillates (petroleum), solvent-dewaxed light paraffinic	-	-	Not readily	
Paraffin oils (petroleum), catalytic dewaxed heavy	-	-	Not readily	
zinc bis(O,O-diisooctyl) bis (dithiophosphate)	-	-	Not readily	

### **Bioaccumulative potential**

Product/substance	LogKow	BCF	Potential
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	High
Dec-1-ene, trimers, hydrogenated	>6.5	-	High
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	6.1	-	High
Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.2	260	Low
Distillates (petroleum), solvent-dewaxed light paraffinic	3.1	-	Low
, zinc bis(O,O-diisooctyl) bis (dithiophosphate)	2.9	-	Low

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: 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. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.
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**SDS # :** 081913

## Section 14. Transport information

	DOT Classification	IMDG	ΙϹΑΟ/ΙΑΤΑ
UN/ID No	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
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 : Not available. to IMO instruments

## Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined
	<b>Clean Water Act (CWA) 307</b> : zinc bis(O,O-diisooctyl) bis(dithiophosphate); zinc bis[O- (6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)
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.
<u>SARA 311/312</u>	
Classification	: SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Composition/information	on ingredients



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Name	%	Classification
Distillates (petroleum), hydrotreated heavy paraffinic	≥25 - ≤50	ASPIRATION HAZARD - Category 1
Dec-1-ene, trimers, hydrogenated	≥10 - ≤25	ASPIRATION HAZARD - Category 1
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	≤5	ASPIRATION HAZARD - Category 1
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	≤5	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent- dewaxed heavy paraffinic	≤3	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent- dewaxed light paraffinic	≤3	ASPIRATION HAZARD - Category 1
C14-16-18 Alkyl phenol	≤3	SKIN SENSITIZATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Paraffin oils (petroleum), catalytic dewaxed heavy	≤3	ASPIRATION HAZARD - Category 1
zinc bis(O,O-diisooctyl) bis (dithiophosphate)	≤3	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	zinc bis(O,O-diisooctyl) bis(dithiophosphate)	28629-66-5	≤3
Supplier notification	zinc bis(O,O-diisooctyl) bis(dithiophosphate)	28629-66-5	≤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; OIL MIST, MINERAL; MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEWAXED LIGHT PARAFFINIC; MINERAL OIL, PETROLEUM PARAFFIN OILS, CATALYTIC DEWAXED HEAVY
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: MINERAL OIL (UNTREATED and MILDLY TREATED); ZINC compounds</li> </ul>
Pennsylvania California Prop. 65	: 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)

Date of revision : 2023/09/21

4.01



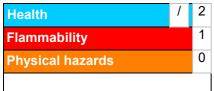
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Not listed.	
UNECE Aarhus Protocol on POPs and Heavy Meta	<u>als</u>
Not listed.	
Inventory list	
Australia inventory (AIIC)	: All components are listed or exempted.
Canada inventory (DSL/NDSL)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed, exempted, or notified.
Europe inventory (EC)	: All components are listed or exempted.
Japan inventory	<ul> <li>Japan inventory (CSCL): All components are listed or exempted.</li> <li>Japan inventory (ISHL): All components are listed or exempted.</li> </ul>
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 (TCSI)	: All components are listed or exempted.
Thailand inventory	: Not determined.
Turkey inventory	: All components are listed or exempted.
United States inventory (TSCA 8b)	: All components are listed or exempted.
Vietnam inventory	: Not determined.
The information stated in this section relates as	low to the conformity of the chemical product with the

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.)



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	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2		Calculation method	
History			
Date of revision	:	2023/09/21	
previous revision date	:	2023/04/27	
Version	:	4.01	
Key to abbreviations	Version : 4.01		cient of Pollution From Ships, 1973
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.