

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 QUARTZ INEO MDC 5W-30

SDS no. 082472

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

1.1 Product identifier

Product description

Product name Product code

Product type

identification

Other means of

: QUARTZ INEO MDC 5W-30

: 082472

: Not available.

: Liquid.

: Not available.

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

Identified uses

Not applicable.

Uses advised against Not applicable.

Not applicable.

1.3 Details of the supplier of the safety data sheet

TotalEnergies Lubrifiants 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71 rm.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited 10 Upper Bank Street (19th floor) Canary Wharf, London E14 5BF UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033 rm.gb-msds@totalenergies.com

H.S.E

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number <u>Supplier</u>	:	National Poisons Information Service (NPIS): 111
Telephone number	1	Emergency telephone: +44 1235 239670
Hours of operation	:	Edit the content of sentence <gb -="" hours="" number="" of="" operation="" supplier="" telephone=""> to define this output</gb>
Information limitations	:	Edit the content of sentence <gb -="" information="" limitations="" number="" supplier="" telephone=""> to define this output</gb>



Product definition

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

QUARTZ INEO MDC 5W-30

	SDS no. :	082472
P/GHS]		

Classification according to Regulation (EC) No. 1272/2008 [CLP Not classified. The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

: Contains 14.4% of components with unknown hazards to the aquatic environment Ingredients of unknown ecotoxicity

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

: Mixture

2.2 Label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	 Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated. May produce an allergic reaction. Safety data sheet available on request.
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 %.

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

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Туре
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	≤10	Asp. Tox. 1, H304	[1]
Phosphorodithioic acid, mixed O, O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	REACH #: 01-2119657973-23 EC: 272-238-5 CAS: 68784-31-6	<2.5	Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
Alkyl (C18-C28) toluenesulfonic	EC: 953-650-0	≤0.3	Skin Sens. 1B, H317	[1]

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2023/01/06				



SDS no.

SECTION 3: Composition/information on ingredients acid, calcium salts, borated Repr. 2, H361d 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.

SECTION 4: First aid measures

4.1 Description of first aid measures

i Description of mist alu n	
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed **Over-exposure signs/symptoms**

data. mptoms may include the following:
mptoms may include the following:
data.
;

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.
Specific treatments	No specific treatment

Specific treatments : No specific treatment.

4



SDS no. 082472

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	-	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	rom	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 nitrogen oxides 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ive equipment and emergency procedures	
For non-emergency personnel	lo action shall be taken involving any personal risk or without suitable training Evacuate surrounding areas. Keep unnecessary and unprotected personnel entering. Do not touch or walk through spilt material. Put on appropriate persontective equipment.	from
For emergency responders	f specialised clothing is required to deal with the spillage, take note of any nformation in Section 8 on suitable and unsuitable materials. See also the nformation in "For non-emergency personnel".	
6.2 Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, d and sewers. Inform the relevant authorities if the product has caused environ pollution (sewers, waterways, soil or air).	
6.3 Methods and material for	ainment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water a	nd mop

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop
	up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry
	material and place in an appropriate waste disposal container. Dispose of via a
	licensed waste disposal contractor.



SDS no. 082472

SECTION 6: Accidental release measures

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

Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Reportable hazardous constituent(s) contained in UVCB- and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

Recommended monitoring	: If this product contains ingredients with exposure limits, personal, workplace
procedures	atmosphere or biological monitoring may be required to determine the effectiveness
	of the ventilation or other control measures and/or the necessity to use respiratory
	protective equipment. Reference should be made to appropriate monitoring
	standards. Reference to national guidance documents for methods for the
	determination of hazardous substances will also be required.



SDS no. : 082472

SECTION 8: Exposure controls/personal protection

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	Туре	Exposure	Value	Population	Effects
Lubricating oils (petroleum), C20-50,	DNEL	Long term	2.73 mg/m ³	Workers	Systemic
hydrotreated neutral oil-based		Inhalation			
	DNEL	Long term Oral	0.74 mg/	General	Local
		Long torm	kg bw/day 5.58 mg/m³	population Workers	
	DNEL	Long term Inhalation	5.56 mg/m ²	vvorkers	Local
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
	DIVLL	Long term Derma	kg bw/day	V on cro	o yotonno
	DNEL	Long term Oral	0.74 mg/	General	Systemic
		0	kg bw/day	population	-
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	1.19 mg/m ³		Local
		Inhalation	0.70 / 3	population	
	DNEL	Long term Inhalation	2.73 mg/m ³	Workers	Systemic
	DNEL	Long term	5.58 mg/m ³	Workers	Local
	DINCL	Inhalation	5.50 mg/m	WUIKEIS	LUCAI
Phosphorodithioic acid, mixed O,O-	DNEL	Long term Oral	0.21 mg/	General	Systemic
bis(sec-Bu and 1,3-dimethylbutyl)			kg bw/day	population	-,
esters, zinc salts			0 ,		
	DNEL	Long term Dermal	2.1 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	2.93 mg/m ³	Workers	Systemic
		Inhalation	10.10	14/	Quatantia
	DNEL	Long term Dermal	10.42 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term	11.75 mg/	General	Systemic
	DIVLL	Inhalation	m ³	population	Gysternio
	DNEL	Short term Dermal	50 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term Dermal	100 mg/kg	Workers	Systemic
			bw/day		_
	DNEL	Short term	198.6 mg/	General	Systemic
		Inhalation Short term	m^{3}	population Workers	Svetomic
	DNEL	Inhalation	496.4 mg/ m³	VVUIKEIS	Systemic
	DNEL	Long term Dermal	9.6 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	6.6 mg/m ³	Workers	Systemic
		Inhalation			-
	DNEL	Long term Dermal	4.8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	1.67 mg/m ³		Systemic
	DNEL	Inhalation	0.10 mg/	population	Svotomic
	DINEL	Long term Oral	0.19 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Oral	29 mg/kg	General	Systemic
			bw/day	population	
			211, 44 y	F-P4141011	

PNECs



SDS no. :

082472

Product/substance Compartment Detail Value Method Detail							
FIGUUCI/SUDSIdIICE	Compartment Detail	value	Wethou Detail				
Phosphorodithioic acid, mixed O,O-bis(sec- Bu and 1,3-dimethylbutyl) esters, zinc salts	Fresh water	4 µg/l	-				
	Marine water	4.6 µg/l	-				
	Marine water sediment	0.00701 mg/kg	-				
		dwt					
	Soil	0.0548 mg/kg dwt	-				
	Sewage Treatment	3.8 mg/l	-				
	Plant	Ŭ					

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.EN 166
Skin protection	
Hand protection	 Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Hydrocarbon-proof gloves 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
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: None under normal use conditions. If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn (Type A/P1).



SDS no. : 082472

SECTION 8: Exposure controls/personal protection

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to
controls	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 physica	l an	d chemical properties				
<u>Appearance</u>						
Physical state	: 1	_iquid. [Clear]				
Colour	: `	Yellow.				
Odour	: (Characteristic.				
Odour threshold	: 1	Not available.				
Melting point/freezing point	: 7	echnically not possible to measure				
Initial boiling point and boiling range	: >	>316°C (>600.8°F) [ISO 3405]				
Flammability (solid, gas)	: 1	Not applicable.				
Upper/lower flammability or explosive limits		Lower: 0.9% Jpper: 7% [ASTM E 681]				
Flash point	: (Dpen cup: 238°C (460.4°F) [Cleveland Open Cup (COC)]				
Auto-ignition temperature	: >	>238°C (>460.4°F) [ASTM E 659]				
Decomposition temperature	: 1	Not applicable.				
рН	: 1	Not applicable. Product is non-soluble (in water).				
Viscosity	: 1	Kinematic (40°C): 72.5 mm²/s [ISO 3104]				
Solubility(ies)	:					
Media		Result				
water		Not soluble				
Solubility in water	: (0.85 g/l				
Miscible with water	: 1	No.				
Partition coefficient: n-octanol/ water	: 1	Not available.				
Vapour pressure		<0.013 kPa (<0.1 mm Hg) [room temperature] Not applicable. [50°C (122°F)]				
Relative density	: ().958 [ISO 12185]				
Density	: ().958 g/cm³ [15°C (59°F)] [ISO 12185]				

Vapour density : >2 [Air = 1] Particle characteristics

Median particle size: Not applicable.

9.2 Other information



SDS no. 082472

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	:	No specific data.
10.6 Hazardous decomposition products	:	carbon monoxide carbon dioxide nitrogen oxides 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
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-	OECD 402 Read across
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402 Acute Dermal Toxicity
	LD50 Oral	Rat	3.4 g/kg	-	OECD 401 Acute Oral Toxicity

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

Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.1
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	3400	N/A	N/A	N/A	N/A



SDS no. 5

SECTION 11: Toxicological information

Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Eyes - Irritant	Rabbit	-	-	OECD 405
	Skin - Oedema	Rabbit	0.5	4 hours	OECD 404 Acute Dermal Irritation/ Corrosion
	Skin - Erythema/Eschar	Rabbit	1.3	4 hours	OECD 404

Conclusion/Summary

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

: 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

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

Respiratory

Skin **Eyes**

Sensitisation

Product/substance	Route of exposure	Species	Result
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	skin	Guinea pig	Not sensitizing
Conclusion/Summary	:		

Conclusion/Summary

Skin

: Based on available data, the classification criteria are not met. Contains sensitizer. May produce an allergic reaction.

Respiratory

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

Mutagenicity

Product/substance	Test	Experiment	Result
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

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

Product/substance	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	-	Negative	Negative		Oral: 30 mg/kg NOAEL	-



SDS no. 082472

Conclusion/Summary	• ological information : Based on available data, the classification criteria are not met.		
<u>Feratogenicity</u>			
Conclusion/Summary	: Based on available data, the cl	assification criteria are not met.	
Specific target organ toxici	ty (single exposure)		
Not available.			
Conclusion/Summary	: Based on available data, the cl	assification criteria are not met.	
Specific target organ toxici	<u>ty (repeated exposure)</u>		
Not available.			
Conclusion/Summary	: Based on available data, the cl	assification criteria are not met.	
Aspiration hazard			
Produ	ict/substance	Result	
Lubricating oils (petroleum),	C20-50, hydrotreated neutral oil-	ASPIRATION HAZARD - Category	
based			
Conclusion/Summary	: Based on available data, the cl	assification criteria are not met.	
formation on likely routes fexposure	: Not available.		
otential acute health effects	<u>s</u>		
Eye contact	: No known significant effects or	critical hazards.	
nhalation	: No known significant effects or	critical hazards.	
Skin contact	: Defatting to the skin. May caus	se skin dryness and irritation.	
ngestion	: No known significant effects or	critical hazards.	
ymptoms related to the phy	vsical, chemical and toxicologica	I characteristics	
Eye contact	: No specific data.		
nhalation	: No specific data.		
Skin contact	: Adverse symptoms may include the following: irritation dryness		
nantion	cracking No specific data.		
ngestion	: No specific data.		
elayed and immediate effec	cts as well as chronic effects from	<u>n short and long-term exposure</u>	
<u>Short term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
<u>_ong term exposure</u>			
Detential immediate	: Not available.		
Potential immediate effects			



SDS no. 0 :

SECTION 11: Toxicological information

Product/substance	Result	Species	Dose	Exposure
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Sub-acute NOAEL Oral	Rat	125 mg/kg	-
Conclusion/Summary	: Not available.			
General	: No known significant effects or critical hazards.			
Carcinogenicity	: During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.			
Mutagenicity	: No known significant effects or critical hazards.			
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
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Acute EL50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	48 hours	OECD 201
	Acute EL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LL50 >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
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Acute EC50 240 mg/l	Algae - Desmodesmus subspicatus	72 hours	-
	Acute EC50 75 mg/l Acute LC50 4.4 mg/l	Daphnia - Daphnia magna Fish	48 hours 96 hours	-

Conclusion/Summary

: Not available.

12.2 Persistence and degradability



SDS no. 082472

SECTION 12: Ecological information Product/substance Test Result Dose Inoculum OECD 301F Lubricating oils (petroleum), 31 % - Not readily - 28 days Activated sludge C20-50, hydrotreated neutral oil-based **Conclusion/Summary** : Not available. **Product/substance Aquatic half-life Photolysis** Biodegradability Lubricating oils (petroleum), Not readily C20-50, hydrotreated neutral oil-based

12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	4	-	high

12.4 Mobility in soil	
Soil/water partition coefficient (K _{oc})	: 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

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.

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



SDS no. :

082472

SECTION 13: Disposal considerations

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	 Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
	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. 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	-	-	-	-
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 : Not available. bulk according to IMO instruments



SDS no. 082472

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 : Not applicable. 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 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) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
International regulations	
Chemical Weapon Convent	ion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention on F	Persistent Organic Pollutants
Not listed.	
Rotterdam Convention on F	Prior Informed Consent (PIC)
Not listed.	

UNECE Aarhus Protocol on POPs and Heavy Metals



SDS no. : 082472

SECTION 15: Regulatory information

Not listed.

Inventory list	
Australia inventory (AIIC)	: All components are listed or exempted.
Canada inventory	: All components are listed or exempted.
China inventory (IECSC)	: Not determined.
Europe inventory	: All components are listed or exempted.
Japan inventory	: Japan inventory (CSCL): All components are listed or exempted.
	Japan inventory (ISHL): All components are listed or exempted.
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	: Not determined.
United States inventory (TSCA 8b)	: All components are listed or exempted.
Vietnam inventory	: Not determined.

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

15.2 Chemical safety	: 1	This product contains substances for which Chemical Safety Assessments are still	
assessment		equired.	

SECTION 16: Other information

Indicates information that has changed from previously issued version.

,	
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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



SDS no. (

082472

SECTION 16: Other information

Not classified.

Full text of abbreviated H statements

H304	May be fatal if swallowed and enters airways.		
H317	May cause an allergic skin reaction.	lay cause an allergic skin reaction.	
H318	Causes serious eye damage.		
H361d	Suspected of damaging the unborn child.		
H411	Toxic to aquatic life with long lasting effects.		
Full text of c	<u>classifications</u>		
Aquatic Chr	onic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2		

Aquatic Chronic 2 Asp. Tox. 1 Eye Dam. 1 Repr. 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 REPRODUCTIVE TOXICITY - Category 2
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
Date of printing	: 2023/01/06
Date of issue/ Date of revision	: 2023/01/06
Date of previous issue	e : 2022/08/30
Version	: 3
Notice to reader	

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.