

## SAFETY DATA SHEET

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

MULTIS MS 2

**SDS no.** 30823

2

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

1.1 Product identifier	
Product name	: MULTIS MS 2
Product code	: 30823
Product description	: Not available.
Product type	: Solid.
Other means of	: Not available.
identification	

### **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

✓ talEnergies 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
 ✓ m.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

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### 1.4 Emergency telephone number

National advisory	v body/Poison Centre	

Telephone number <u>Supplier</u>	: National Poisons Information Service (NPIS): 111
Telephone number	: 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>



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## **SECTION 2: Hazards identification**

2.1 Classification of the subs	star	nce or mixture	
Product definition : Mixture			
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.			
The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.			
Ingredients of unknown : Contains 7% of components with unknown hazards to the aquatic environment ecotoxicity			
See Section 11 for more deta	ilec	l information on health effects and symptoms.	
2.2 Label elements			
Signal word	:	No signal word.	
Hazard statements	:	No known significant effects or critical hazards.	
Precautionary statements			
Prevention	1	Not applicable.	
Response	1	Not applicable.	
Storage	:	Not applicable.	
Disposal	1	Not applicable.	
Supplemental label elements	1	Contains Naphthenic acids, zinc salts. 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 %. 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.	
Other hazards which do not result in classification	:	None known.	

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

3.2 Mixtures

: Mixture



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Product/ingredient name	Identifiers	%	Classification	Туре
✔-Propene, 2-methyl-, sulfurized	EC: 270-943-2 CAS: 68511-50-2	≤3	Aquatic Chronic 4, H413	[1]
Phosphorodithioic acid, mixed O, O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	REACH #: 01-2119948548-22 EC: 270-478-5 CAS: 68442-22-8	<2.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
methyl-1H-benzotriazole	REACH #: 01-2119979081-35 EC: 249-596-6 CAS: 29385-43-1	<1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Repr. 2, H361d Aquatic Chronic 2, H411	[1]
Naphthenic acids, zinc salts	REACH #: 01-2120783834-41 EC: 234-409-2 CAS: 12001-85-3	<1	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[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 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.

SECTION 4: First aid measures 4.1 Description of first aid measures		
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.	
Skin contact	: ₩ash 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	

-	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

Eye contact Inhalation	<ul> <li>No specific data.</li> <li>No specific data.</li> </ul>
Skin contact	<ul> <li>Adverse symptoms may include the following: irritation dryness cracking</li> </ul>



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**SECTION 4: First aid measures** : No specific data. Ingestion 4.3 Indication of any immediate medical attention and special treatment needed : Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician quantities have been ingested or inhaled. : No specific treatment. Specific treatments SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media 5.2 Special hazards arising from the substance or mixture Hazards from the : No specific fire or explosion hazard. substance or mixture **Hazardous combustion** : carbon monoxide carbon dioxide products phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides 5.3 Advice for firefighters **Special protective actions** ÷. Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained **Special protective** 2 breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters mode. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency

personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	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	: Kvoid 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



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### **SECTION 6: Accidental release measures**

Small spill	<ul> <li>Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.</li> </ul>
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. 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 Advice on general occupational hygiene	<ul> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>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.</li> </ul>
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### 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	: Not available.
Industrial sector specific solutions	: Not available.

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

### 8.1 Control parameters

### **Occupational exposure limits**

Product/substance	Exposure limit values
Imestone molybdenum disulphide	<ul> <li>EH40/2005 WELs (United Kingdom (UK), 1/2020).</li> <li>TWA: 4 mg/m<sup>3</sup> 8 hours. Form: respirable dust</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: inhalable dust</li> <li>TWA: 4 mg/m<sup>3</sup> 8 hours. Form: respirable</li> <li>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: total inhalable</li> <li>EH40/2005 WELs (United Kingdom (UK), 1/2020).</li> <li>[molybdenum insoluble compounds]</li> <li>STEL: 20 mg/m<sup>3</sup>, (as Mo) 15 minutes.</li> <li>TWA: 10 mg/m<sup>3</sup>, (as Mo) 8 hours.</li> </ul>



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

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 procedures** : If this product contains ingredients with exposure limits, personal, workplace 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.

- 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
hosphorodithioic acid, mixed O,O- bis(2-ethylhexyl and iso-Bu) esters, zinc salts	DNEL	Long term Oral	0.24 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.98 mg/m³	General population	Systemic
	DNEL	Long term Dermal	5.71 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	8.05 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11.4 mg/ kg bw/day	Workers	Systemic
Naphthenic acids, zinc salts	DNEL	Long term Oral	0.17 ng/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	290 µg/m³	General population	Systemic
	DNEL	Long term Inhalation	1.18 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	3.3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	0.17 ng/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.29 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	1.18 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.7 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.3 mg/kg bw/day	Workers	Systemic

### **PNECs**



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Product/substance	<b>Compartment Detail</b>	Value	Method Detail
hosphorodithioic acid, mixed O,O-bis 2-ethylhexyl and iso-Bu) esters, zinc salts	Fresh water	0.004 mg/l	-
	Marine water	0.0046 mg/l	-
	Fresh water sediment	0.04508 mg/kg dwt	-
	Marine water sediment	0.005 mg/kg dwt	-
	Soil	0.007 mg/kg dwt	-
	Sewage Treatment Plant	100 mg/l	-
	Secondary Poisoning	10.67 mg/kg	-
Naphthenic acids, zinc salts	Fresh water sediment	15.1 to 19438.4 µg/kg dwt	-
	Marine water sediment	1.51 to 1943.84 µg/kg dwt	-
	Sewage Treatment Plant	689.7 μg/l	-
	Fresh water	4 µg/l	-
	Marine water	400 ng/l	-

### 8.2 Exposure controls

controls

: Cood general ventilation should be sufficient to control worker exposure to airborne **Appropriate engineering** 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: 🗹 case of contact through splashing: 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.
	<ul> <li>Hydrocarbon-proof gloves nitrile rubber</li> <li>Fluorinated rubber</li> <li>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.</li> <li>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</li> </ul>
	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	<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. Non-skid safety shoes or boots</li> </ul>



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

Other skin protection	propriate footwear and any additional skin pro lected based on the task being performed and proved by a specialist before handling this pro	the risks involved and should be
Respiratory protection	one under normal use conditions. If these are low the OEL, suitable respiratory protection m	
Environmental exposure controls	nissions from ventilation or work process equi sure they comply with the requirements of en- some cases, fume scrubbers, filters or engine uipment will be necessary to reduce emission	vironmental protection legislation. eering modifications to the process

### **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	÷	Solid.				
Colour	÷	Dark grey.				
Odour	4	Characteristic.				
Odour threshold	4	Not available.				
Melting point/freezing point	:	▶180°C [EN ISO 3016]				
Initial boiling point and boiling range	:	rechnically not possible to measure				
Flammability (solid, gas)	1	Not available.				
Upper/lower flammability or explosive limits	:	Not applicable.				
Flash point	:	Øpen cup: Not applicable.				
Auto-ignition temperature	:	Not applicable.				
Decomposition temperature	:	▶180°C				
рН	:	Not applicable.				
Viscosity	:	Kinematic (40°C): Not applicable.				
Solubility(ies)	:					
Media		Result				
Water		Not soluble				
Miscible with water	:	<b>N</b> o.				
Partition coefficient: n-octanol/ water	:	▶3.5				
Vapour pressure	:	Not available.				
Relative density	:	Ø.9 [EN ISO 12185]				
Density	:	Ø.9 g/cm³ [20°C (68°F)] [EN ISO 12185]				
Vapour density	:	Not applicable.				
Particle characteristics						
Median particle size	:	Not available.				

### 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	:	☑nder normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	Strong oxidising agents
10.6 Hazardous decomposition products	:	carbon monoxide carbon dioxide 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
<b>L</b> ímestone	LD50 Oral	Rat	>5000 mg/kg	-	-
1-Propene, 2-methyl-, sulfurized	LD50 Oral	Rat	8.6 g/kg	-	-
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	LD50 Dermal	Rabbit	>2000 mg/kg	-	OECD 402 Acute Dermal Toxicity
	LD50 Oral	Rat	>2000 mg/kg	-	EPA
Naphthenic acids, zinc salts	LD50 Dermal	Rabbit	2500 mg/kg	-	-
	LD50 Oral	Mouse - Female	>2000 mg/kg	-	OECD 401
	LD50 Oral	Rat	4920 mg/kg	-	-

**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)
✓Propene, 2-methyl-, sulfurized	8600	N/A	N/A	N/A	N/A
Naphthenic acids, zinc salts	4920	2500	N/A	N/A	N/A

Irritation/Corrosion



Product/substance	Result	Species	Score	Exposure	Test
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Eyes - Severe irritant	Rabbit	-	-	-
, ,	Skin - Irritant	Rabbit	-	-	OECD 404 Acute Dermal Irritation/ Corrosion
Naphthenic acids, zinc salts	Skin - Mild irritant	Rabbit	-	0.5 MI	-
• •	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Conclusion/Summary		·	·	·	
Skin	: Based on available data, t	he classification c	riteria are	not met.	
Eyes	: 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				
Respiratory		concentration used, classification is not required Based on available data, the classification criteria are not met.			

### **Sensitisation**

Product/substance	Route of exposure	Species	Result
hosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	skin	Guinea pig	Not sensitizing
Naphthenic acids, zinc salts	skin	Human	Sensitising

### **Conclusion/Summary**

- Skin

2

: 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(2-ethylhexyl and iso-Bu) esters, zinc salts	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria Cell: Somatic	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
Conclusion/Summary	: Based on available data	a, the classification criteria are not me	t.
Carcinogenicity			
Conclusion/Summary <u>Reproductive toxicity</u>	: Based on available data	a, the classification criteria are not me	t.



Product/substance	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Negative	Negative	Negative	Rat	Oral: 160 mg/kg NOAEL	-
Conclusion/Summary	: Based on	available data	a, the classificatio	on criteria are not n	net.	
Teratogenicity						
Conclusion/Summary	: Based on	available data	a, the classificatio	on criteria are not n	net.	
<u>Specific target organ toxicit</u>	y (single exp	<u>osure)</u>				
Not available.						
Conclusion/Summary	: Based on	available data	a, the classificatio	on criteria are not n	net.	
Specific target organ toxicit	<u>y (repeated e</u>	<u>xposure)</u>				
Not available.						
Conclusion/Summary Aspiration hazard Not available.	: Based on a	available data	a, the classificatio	on criteria are not n	net.	
Conclusion/Summary	: Based on	available data	a, the classificatio	on criteria are not n	net.	
formation on likely routes f exposure	: Not availal	ble.				
otential acute health effects						
Eye contact	: No known	significant ef	fects or critical ha	azards.		
nhalation	: No known	No known significant effects or critical hazards.				
Skin contact	: Defatting t	$\overline{m{p}}$ efatting to the skin. May cause skin dryness and irritation.				
ngestion	: No known	significant ef	fects or critical ha	azards.		
ymptoms related to the phys	sical, chemic	al and toxico	ological charact	eristics		
Eye contact	: No specific	c data.				
nhalation	: No specific	c data.				
Skin contact	irritation dryness	<ul> <li>Adverse symptoms may include the following: irritation dryness</li> </ul>				
Ingestion	cracking : No specific	c data.				
elayed and immediate effect	ts as well as o	chronic effe	<u>cts from short a</u>	<u>nd long-term exp</u>	<u>osure</u>	
<u>Short term exposure</u>						
Potential immediate effects	: Not availal	ble.				
Potential delayed effects	: Not availal	ble.				
Long term exposure						
Potential immediate effects	: Not availal	ble.				



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

Potential chronic health effects				
Result	Species	Dose	Exposure	
Sub-acute NOAEL Oral	Rat	160 mg/kg	-	
: Not available.				
: 📈 known significant effects or critical hazards.				
: 📈 known significant effects or critical hazards.				
: 📈 known significant effects or critical hazards.				
: 📈 known significant effects or critical hazards.				
	Result         Sub-acute NOAEL Oral         : Not available.         : Not available.         : No known significant effect         : No known significant effect         : No known significant effect	Result     Species       Sub-acute NOAEL Oral     Rat       : Not available.     Not available.       : Not known significant effects or critical haz     Not known significant effects or critical haz       : No known significant effects or critical haz     Not known significant effects or critical haz	Result       Species       Dose         Sub-acute NOAEL Oral       Rat       160 mg/kg         : Not available.       Not available.       160 mg/kg         : Not available.       No known significant effects or critical hazards.       No known significant effects or critical hazards.         : No known significant effects or critical hazards.       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
✔-Propene, 2-methyl-, sulfurized	Acute EC50 >100 mg/l	Algae	72 hours	-
	Acute EC50 1000 mg/l	Daphnia	48 hours	-
	Acute LC50 1000 mg/l	Fish	96 hours	-
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	Acute EC50 24 mg/l	Algae - Scenedesmus subspicatus	72 hours	OECD 201
	Acute EC50 23 mg/l	Daphnia - Daphnia Magna	48 hours	OECD 202
	Acute LC50 4.5 mg/l	Fish	96 hours	-
	Acute NOEC 0.4 mg/l	Daphnia - Daphnia Magna	21 days	-
Naphthenic acids, zinc salts	Acute EC50 4 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 100 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute LC50 92 ppm Fresh water	Fish - Lepomis macrochirus	96 hours	US EPA
	Chronic NOEC 1 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201

**Conclusion/Summary** 

: Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.



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

0	5		
Product/substance	Aquatic half-life	Photolysis	Biodegradability
hosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu) esters, zinc salts	-	-	Not readily
Naphthenic acids, zinc salts	-	-	Not readily

### 12.3 Bioaccumulative potential

Product/substance	LogPow	BCF	Potential
MULTIS MS 2	>3.5	-	low
Phosphorodithioic acid, mixed 0,0-bis(2-ethylhexyl	1.67	-	low
and iso-Bu) esters, zinc salts Naphthenic acids, zinc salts		-	high

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.
Mobility in soil	: Given its physical and chemical characteristics, the product has no 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 method	S
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	: 🗡es.



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

	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: 12 01 12*
Packaging	
Methods of disposal	Free 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	Fhis 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.

**14.6 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.

14.7 Maritime transport in : Not available. bulk according to IMO instruments

### **SECTION 15: Regulatory information**

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

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



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### **SECTION 15: Regulatory information**

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**

Ake 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** : Not listed (integrated pollution prevention and control) -Air 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)	: All components are listed or exempted.
Canada inventory	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Europe inventory	: 🕅 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.



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<b>g</b>	:
SECTION 15: Regulatory info	ormation
New Zealand Inventory of Chemicals (NZIoC)	: At least one component is not listed.
Philippines inventory (PICCS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
Taiwan Chemical Substances Invento (TCSI)	<b>bry</b> : All components are listed or exempted.
Thailand inventory	: Not determined.
Turkey inventory	: Not determined.
United States inventory (TSCA 8b)	: 🕅 components are listed or exempted.
Vietnam inventory	: Not determined.
	anagement measures and safety conditions of use are included in the t sections of the SDS
SECTION 16: Other informat	ion
	d from previously issued version. Acute Toxicity Estimate Classification, Labelling and Packaging Regulation [Regulation (EC) No.
1272/20 DNEL =	008] = Derived No Effect Level
	= Derived Minimal Effect Level
	atement = CLP-specific Hazard statement
	lot available Persistent, Bioaccumulative and Toxic
	Very Persistent and Very Bioaccumulative
	= Predicted No Effect Concentration
LC50 =	Median lethal concentration
	Median lethal dose
	Occupational Exposure Limit Volatile Organic Compound
UVCBS	Substance of unknown or Variable composition, Complex reaction products
NOEC I	No Observed Effect Concentration
	- Quantitativa Structura, Activity Dalationahin

QSAR = Quantitative Structure–Activity Relationship

### Procedure used to derive the classification

Not classified.

### Full text of abbreviated H statements

<b>⊮</b> 315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Full text of classifications



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

Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
Date of printing	: 2023/06/05
Date of issue/ Date of	: 2023/06/05
revision	
Date of previous issue	e : 2021/03/30
Version	: 2

### Notice to reader

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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.