

## SAFETY DATA SHEET

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

RUBIA OPTIMA 1100 FE 10W-30

**SDS no.** 087150

## 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

: RUBIA OPTIMA 1100 FE 10W-30

: 087150

: Not available.

: Liquid.

: Not available.

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

Identified uses	
Engine oil	
Uses advised against	

Not applicable.

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

VotalEnergies 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 183 Eversholt St, Kings Cross London, NW1 1BU UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033

m.gb-msds@totalenergies.com

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### 1.4 Emergency telephone number

National advisory 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	: <b>E</b> dit 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	1	Mixture
Classification according to Not classified.	Re	gulation (EC) No. 1272/2008 [CLP/GHS]
The product is not classified a	as h	azardous according to UK CLP Regulation SI 2019/720 as amended.
Ingredients of unknown toxicity	:	<ul> <li>2.9 percent of the mixture consists of component(s) of unknown acute oral toxicity</li> <li>4.3 percent of the mixture consists of component(s) of unknown acute dermal toxicity</li> <li>4.3 percent of the mixture consists of component(s) of unknown acute inhalation toxicity</li> </ul>
Ingredients of unknown ecotoxicity	:	Contains 69.9% of components with unknown hazards to the aquatic environment
See Section 11 for more deta	iled	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	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex. 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	:	razard of slipping on spilt product.

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

### **3.2 Mixtures**

: Mixture



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Product/ingredient name	Identifiers	%	Classification	Туре
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	≥10 - ≤25	Asp. Tox. 1, H304	[1]
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl- 4-hydroxyphenyl)propionate	REACH #: 01-0000015551-76 EC: 406-040-9 CAS: 125643-61-0 Index: 607-530-00-7	≤3	Aquatic Chronic 4, H413	[1]
Distillates (petroleum), solvent- dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6	≤3	Asp. Tox. 1, H304	[1]
Distillates (petroleum), solvent- dewaxed light paraffinic	REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9 Index: 649-469-00-9	≤3	Asp. Tox. 1, H304	[1]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	REACH #: 01-2119474878-16 EC: 276-737-9 CAS: 72623-86-0 Index: 649-482-00-X	≤3	Asp. Tox. 1, H304	[1]
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	≤3	Asp. Tox. 1, H304	[1]
Paraffin oils (petroleum), catalytic dewaxed heavy	REACH #: 01-2119487080-42 EC: 265-174-4 CAS: 64742-70-7	≤3	Asp. Tox. 1, H304	[1]
zinc bis[O-(6-methylheptyl)] bis[O- (sec-butyl)] bis(dithiophosphate)	REACH #: 01-2119543726-33 EC: 298-577-9 CAS: 93819-94-4	<2.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 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 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>

Substance classified with a health or environmental hazard

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



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

4.1 Description of first aid m	neasures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: ₩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 occur.
Protection of first-aiders	: $\overline{M}$ o 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	: No specific data. : No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.

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

Hydrogen sulfide Mercaptans Zinc oxides

Notes to physician	: 🔽 case of inhalation of decomposition products in a fire, symptoms may be delayed.
	The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.

## SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: $V$ se dry chemical, $CO_2$ , water spray (fog) or foam.
Unsuitable extinguishing media	: ₱o 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	: parbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides



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## **SECTION 5: Firefighting measures**

5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Fromptly 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	<ul> <li>Fre-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

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

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	:	
6.2 Environmental precautions	:	Noid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Small spill	: Stop leak if without risk. Move containers from spill area. 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.
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	: <b>P</b> ut on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Fating, 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.



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

### 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	Spe	cific	end	use(s	)
					/

**Recommendations** : Not available.

Industrial sector specific : Not available. solutions

## **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 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
Sistillates (petroleum), hydrotreated heavy paraffinic	DNEL	Long term Inhalation	5.58 mg/m <sup>3</sup>	Workers	Local
	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m <sup>3</sup>	Workers	Local
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl- 4-hydroxyphenyl) propionate	DNEL	Long term Inhalation	3 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	8.6 mg/kg	Workers	Systemic

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ECTION 8: Exposure co	ntrols/p	personal prote	ction		
	-		bw/day		
	DNEL	Long term	0.74 mg/m <sup>3</sup>	General	Systemic
		Inhalation	_	population	
	DNEL	Long term Dermal	4.3 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Oral	0.43 mg/	General	Systemic
	DUE		kg bw/day	population	
	DNEL	Long term Dermal	0.006 mg/	Workers	Local
	DNEL	Long term Oral	cm² 0.16 mg/	General	Systemic
	DNEL	Long term Oral	kg bw/day	population	Systemic
	DNEL	Long term Dermal	0.22 mg/	Workers	Systemic
	DITLE	Long tonin Donnar	kg bw/day	W ON KOTO	Cyclonnic
	DNEL	Long term Dermal	0.33 mg/	General	Systemic
		5	kg bw/day	population	,
	DNEL	Long term	0.74 mg/m <sup>3</sup>	General	Systemic
		Inhalation	_	population	
	DNEL	Short term Dermal	1 mg/cm <sup>2</sup>	Workers	Local
	DNEL	Long term	2.33 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	0.00.00.1	Ormani	
	DNEL	Short term Dermal	8.33 mg/	General	Local
	DNEL	Short term Dermal	cm <sup>2</sup>	population Workers	Systemic
	DINEL	Short term Derman	20 mg/kg bw/day	VUIKEIS	Systemic
	DNEL	Short term Oral	50 mg/kg	General	Systemic
	DINCE	onon term ora	bw/day	population	Oysternie
	DNEL	Short term Dermal	50 mg/kg	General	Systemic
			bw/day	population	- ,
	DNEL	Short term	875 mg/m³	General	Systemic
		Inhalation	_	population	
	DNEL	Short term	1750 mg/	Workers	Systemic
		Inhalation	m <sup>3</sup>		
Distillates (petroleum), solvent-	DNEL	Long term	5.58 mg/m <sup>3</sup>	Workers	Local
dewaxed heavy paraffinic		Inhalation	1 10	Canaral	
	DNEL	Long term	1.19 mg/m <sup>3</sup>		Local
	DNEL	Inhalation Long term Oral	740 µg/kg	population General	Systemic
	DNEL	Long term Oral	740 µg/kg	population	Systemic
	DNEL	Long term Dermal	970 µg/kg	Workers	Systemic
	DNEL	Long term	2.73 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation			-,
	DNEL	Long term Oral	0.74 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
			kg bw/day	• ·	
	DNEL	Long term	1.19 mg/m <sup>3</sup>	General	Local
		Inhalation	0.70 / 3	population	Our tame
	DNEL	Long term	2.73 mg/m <sup>3</sup>	VVOIKEIS	Systemic
	DNEL	Inhalation Long term	5.58 mg/m <sup>3</sup>	Workers	Local
		Inhalation	5.50 mg/m	VV UINEIS	LUGai
Distillates (petroleum), solvent-	DNEL	Long term Oral	0.74 mg/	General	Systemic
dewaxed light paraffinic			kg bw/day	population	Cyclonic
	DNEL	Long term Dermal	0.97 mg/	Workers	Systemic
			kg bw/day		,
	DNEL	Long term	1.19 mg/m <sup>3</sup>	General	Local
			~	population	1

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Inhalation ubricating oils (petroleum), C15-30, nydrotreated neutral oil-basedDNEL Uong term inhalation DNEL Long term Oral5.58 mg/m² VorkersWorkers LocalLocalDNEL inhalation DNEL inhalation DNEL inhalation DNEL inhalation1.2 mg/m² General kg bw/day VorkersGeneral General population WorkersLocal population Local tocal population WorkersLocal tocal population population WorkersLocal tocal tocal population populat		DNEL	Long term	2.73 mg/m <sup>3</sup>	Workers	Systemic
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				0.04		Sustantia
Innaiauon		DNEL		o.31 mg/m²	vvorkers	Systemic
			Inhalation			

### **PNECs**



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Product/substance	Compartment Detail	Value	Method Detail
Distillates (petroleum), hydrotreated heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
reaction mass of isomers of: C7-9-alkyl 3-	Fresh water	0.0043 mg/l	-
(3,5-di-tert-butyl-4-hydroxyphenyl) propionate		Ŭ	
	Marine water	0.00043 mg/l	-
	Fresh water sediment	233 mg/kg dwt	-
	Marine water sediment	23.3 mg/kg dwt	-
	Soil	189 mg/kg	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)	Fresh water	0.004 mg/l	-
	Marine water	0.0046 mg/l	-
	Fresh water sediment	0.0116 mg/kg dwt	-
	Marine water sediment	0.00116 mg/kg	-
		dwt	
	Soil	0.00528 mg/kg	-
	Sewage Treatment Plant	100 mg/l	-
	Secondary Poisoning	10.67 mg/kg dwt	-

### 8.2 Exposure controls

Appropriate engineering controls	: Sood general ventilation should be sufficient to control worker exposure to airborne contaminants.				
Individual protection measu	<u>ires</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				



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

•	· · ·	
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).	Э
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	5

## **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

<u>Appearance</u>	
Physical state	: Liquid. [Clear]
Colour	: Colourless.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	: 🔽 echnically not possible to measure
Initial boiling point and boiling range	: ▶300°C (>572°F) [EN ISO 3405]
Flammability (solid, gas)	: Not applicable.
Upper/lower flammability or explosive limits	: Cower: 0.9% Upper: 7%
Flash point	: Open cup: 221°C (429.8°F) [ASTM D 92]
Auto-ignition temperature	: ▶250°C (>482°F) [ASTM E 659]
Decomposition temperature	: Not applicable.
рН	: Not applicable. Product is non-soluble (in water).
Viscosity	: Kinematic (40°C): 0.8261 cm²/s [ASTM D 445]
Solubility(ies)	1 · · · · · · · · · · · · · · · · · · ·

Media		Result
water		Not soluble
Solubility in water	:	ot available.
Miscible with water	: 🕅	lo.
Partition coefficient: n-octanol/ water	: >	3.5
Vapour pressure		0.013 kPa (<0.1 mm Hg) [room temperature] lot applicable. [50°C (122°F)]
Relative density	: Ø	.8699 [ISO 12185]
Density	: 🛛	.8699 g/cm³ [15°C (59°F)] [ISO 12185]
Vapour density <u>Particle characteristics</u>	: >	2 [Air = 1]



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## **SECTION 9: Physical and chemical properties**

Median particle size

: Not applicable.

### 9.2 Other information

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

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).			
10.3 Possibility of hazardous reactions	: 🗾 Minder normal conditions of storage and use, hazardous reactions will not occur.			
10.4 Conditions to avoid	: <b>K</b> eep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
10.5 Incompatible materials	: Strong oxidising agents			
10.6 Hazardous decomposition products	: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides			

## **SECTION 11: Toxicological information**

Version : 2

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

### **Acute toxicity**

Product/substance	Result	Species	Dose	Exposure	Test
Distillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat - Male, Female	>5 mg/l	4 hours	OECD 403 Read across
P =	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-	OECD 402 Read across
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403
	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >5000 mg/kg	-	OECD 402 OECD 420
Distillates (petroleum), solvent-dewaxed light paraffinic	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours	OECD 403
•	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >5000 mg/kg	-	OECD 402 OECD 401
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	Rat	5.53 mg/l	4 hours	OECD 403



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## **SECTION 11: Toxicological information**

	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 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 -	>5000 mg/kg	-	OECD 402
		Male, Female			Read across
	LD50 Oral	Rat - Male,	>5000 mg/kg	-	OECD 401
		Female			Read across
Paraffin oils (petroleum),	LC50 Inhalation Dusts	Rat	5.1 mg/l	4 hours	-
catalytic dewaxed heavy	and mists				
	LC50 Inhalation Vapour	Rat	80.4 mg/l	1 hours	-
	LC50 Inhalation Vapour	Rat	20.1 mg/l	4 hours	-
	LD50 Dermal	Rabbit	>5000 mg/kg	-	-
	LD50 Oral	Rat	>5000 mg/kg	-	-
zinc bis[O-(6-methylheptyl)]	LC50 Inhalation Dusts	Rat - Male	>2 mg/l	1 hours	OECD 403
bis[O-(sec-butyl)] bis (dithiophosphate)	and mists				
· · · · ·	LD50 Dermal	Rabbit - Male, Female	>3160 mg/kg	-	OECD 402
	LD50 Oral	Rat - Male	2600 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)
Ubricating 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 zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	N/A 2600	N/A N/A	N/A N/A	20.1 N/A	5.1 N/A

### Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	Eyes - Irritant	Rabbit	-	-	-
	Skin - Irritant	Rabbit	-	4 hours	OECD 404

<b>Conclusion/Summary</b>	
Skin	: Based on available data, the classification criteria are not met.
Eyes	: Based on available data, the classification criteria are not met.
Respiratory	: <b>B</b> ased on available data, the classification criteria are not met.
Sensitisation	
<b>Conclusion/Summary</b>	:
Skin	: Based on available data, the classification criteria are not met. Contains sensitiser May produce an allergic reaction.
Respiratory	: <b>B</b> ased on available data, the classification criteria are not met.
<u>Mutagenicity</u>	



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Product/substance	Те	est		Ехр	erimen	t		Re	sult
zínc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis dithiophosphate)	OECD 471			iment: In v ct: Bacteri			Negative		
(uninophosphate)	OECD 474 Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic			Negative					
Conclusion/Summary Carcinogenicity	: Based on a	available data	, the cl	assificatio	on criter	ia are not met	•		
Product/substance		Result		Speci	Species Dose			e Exposu	
eaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl- 4-hydroxyphenyl) propionate	Negative - C	Dral - TC		Rat - Male Female	Э,	-		-	
Conclusion/Summary Reproductive toxicity	Based on a	available data	, the cl	assificatio	on criter	ia are not met			
Product/substance	Maternal toxicity	Fertility		opmental oxin	5	Species	Do	se	Exposure
zínc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis dithiophosphate)	Negative	Negative	Negat	ive	Rat - Male, Female		Oral		-
Conclusion/Summary eratogenicity	Based on a	available data	, the cl	assificatio	on criter	ia are not met			
Product/substance		Result		Speci	ies	Dose	e Exr		posure
nc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis dithiophosphate)	Negative - C	Dral		Rat - Male Female	<b>?</b> ,	-		-	
Conclusion/Summary specific target organ toxicity Not available.			, the cl	assificatio	on criter	ia are not met			
Conclusion/Summary pecific target organ toxicity			, the cl	assificatio	on criter	ia are not met			
Not available.									
Conclusion/Summary Aspiration hazard	: Based on a	available data	, the cl	assificatio	on criter	ia are not met	•		
Product	/substance					Resul	t		
Distillates (petroleum), hydrotre Distillates (petroleum), solvent- Distillates (petroleum), solvent- Lubricating oils (petroleum), C pased	-dewaxed he -dewaxed ligh	avy paraffinic nt paraffinic		ASPII ASPII	RATION RATION	N HAZARD - ( N HAZARD - ( N HAZARD - ( N HAZARD - ( N HAZARD - (	Catego Catego	ory 1 ory 1	
_ubricating oils (petroleum), C2 based	-		l oil-			N HAZARD - (	Ū		
Paraffin oils (petroleum), cataly Conclusion/Summary		-	, the c			N HAZARD - ( ia are not met		лут	



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	logical information					
formation on likely routes f exposure	: Not available.					
otential acute health effects						
Eye contact	: No known significant effect	s or critical hazards	6.			
Inhalation	: No known significant effect	No known significant effects or critical hazards.				
Skin contact	₽ Defatting to the skin. May cause skin dryness and irritation.					
Ingestion	: No known significant effect	s or critical hazards	<b>.</b>			
ymptoms related to the phy	sical, chemical and toxicolog	lical characteristic	<u>&gt;s</u>			
Eye contact	: No specific data.					
Inhalation	: No specific data.					
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking					
	: No specific data.					
Ingestion elaved and immediate effec	·	from short and lo	na-term exposu	re		
elayed and immediate effect Short term exposure Potential immediate effects	<ul> <li>Mo specific data.</li> <li>Its as well as chronic effects f</li> <li>Not available.</li> <li>Not available.</li> </ul>	from short and loi	<u>ıg-term exposu</u>	<u>re</u>		
elayed and immediate effect Short term exposure Potential immediate	ts as well as chronic effects to the second se	from short and loi	<u>ıg-term exposu</u>	<u>re</u>		
elayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure	ts as well as chronic effects for the second	from short and lor	<u>ng-term exposu</u>	<u>re</u>		
elayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate	ts as well as chronic effects for the second	from short and lor	<u>ıg-term exposu</u>	<u>re</u>		
elayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	<ul> <li>ts as well as chronic effects f</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>	from short and lor	<u>ng-term exposu</u>	<u>re</u>		
elayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	<ul> <li>ts as well as chronic effects f</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> </ul>	from short and lor	ng-term exposu	re Exposure		
elayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Product/substance Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis	<ul> <li>ts as well as chronic effects for the second seco</li></ul>		1			
elayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Product/substance Inc bis[O-(6-methylheptyl)]	<ul> <li>ts as well as chronic effects for the second seco</li></ul>	Species Rabbit - Male,	Dose			
elayed and immediate effect Short term exposure Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Product/substance Zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis	<ul> <li>ts as well as chronic effects</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Not available.</li> <li>Sub-chronic LOAEL Dermal</li> </ul>	<mark>Species</mark> Rabbit - Male, Female Rat - Male,	Dose 70 mg/kg			

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



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## **SECTION 11: Toxicological information**

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

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
♥istillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
F	Acute LL50 >1000 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
Distillates (petroleum), solvent-dewaxed light paraffinic	Acute EL50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
paraminic	Acute EL50 10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute EL50 ≥100 mg/l	Fish - Pimephales promelas	96 hours	OECD 203
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	Acute EL50 >100 mg/l	Algae - Pseudokircheriella subcapitata	72 hours	OECD 201
	Acute EL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LL50 >1000 mg/l	Fish - Pimephales promelas	96 hours	OECD 203
	Chronic NOEL >100 mg/l	Algae - Pseudokircheriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
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	96 hours	OECD 203



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-				
	Chronic NOEL >100 mg/l	promelas Algae - Pseudokirchneriella	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	subcapitata Crustaceans - Daphnia magna	21 days	OECD 211
Paraffin oils (petroleum), catalytic dewaxed heavy	Acute EC50 10000 mg/l	Daphnia	48 hours	-
	Acute NOEL 101 mg/l	Algae - Pseudokirchneriella	72 hours	-
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	Acute EC50 2 mg/l	subcapitata Algae - Selenastrum capricornutum	96 hours	OECD 201
(	Acute EC50 5.4 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LC50 4.5 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEC 1 mg/l	Algae - Selenastrum capricornutum	96 hours	OECD 201
	Chronic NOEC 0.4 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 211
Conclusion/Summany	Not available			

**Conclusion/Summary** 

: Not available.

### 12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
▶istillates (petroleum), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	OECD 301B	2 % - 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
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
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	OECD 301B	0 % - Not readily - 28 days	-	Activated sludge

**Conclusion/Summary** 

: Not available.



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Product/substance	Aquatic half-life	Photolysis	Biodegradability
♥istillates (petroleum),	-	-	Not readily
hydrotreated heavy paraffinic			
reaction mass of isomers of:	-	-	Not readily
C7-9-alkyl 3-(3,5-di-tert-			
butyl-4-hydroxyphenyl)			
propionate			
Distillates (petroleum),	-	-	Not readily
solvent-dewaxed heavy			
paraffinic			
Distillates (petroleum),	-	-	Not readily
solvent-dewaxed light			
paraffinic			Not readily
Lubricating oils (petroleum), C15-30, hydrotreated	-	-	Not readily
neutral oil-based			
Lubricating oils (petroleum),	_	_	Not readily
C20-50, hydrotreated	_	_	Not readily
neutral oil-based			
Paraffin oils (petroleum),	-	-	Not readily
catalytic dewaxed heavy			,
zinc bis[O-(6-methylheptyl)]	-	-	Not readily
bis[O-(sec-butyl)] bis			-
(dithiophosphate)			

### **12.3 Bioaccumulative potential**

Product/substance	LogPow	BCF	Potential
RUBIA OPTIMA 1100 FE 10W-30	>3.5	-	low
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	high
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl) propionate	9.2	260	low
Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.2	260	low
Distillates (petroleum), solvent-dewaxed light paraffinic	3.1	-	low
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	6.1	-	high
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	0.9	-	low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.



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## **SECTION 12: Ecological information**

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	
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	: ₩ithin 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**



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#### SECTION 14: Transport information **ADR/RID ADN** IMDG **ICAO/IATA** 14.1 UN number Not regulated. Not regulated. Not regulated. Not regulated. or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group 14.5 No. No. No. No. **Environmental** hazards

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.

#### : Not available. 14.7 Maritime transport in

## bulk according to IMO

### instruments

## 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



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## SECTION 15: Regulatory information

## **Seveso Directive**

This product is not controlled under the Seveso Directive.

**EU regulations** 

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. : All components are listed, exempted, or notified. China inventory (IECSC) : All components are listed or exempted. **Europe inventory** Japan inventory (CSCL): All components are listed or Japan inventory exempted. Japan inventory (ISHL): All components are listed or exempted. **New Zealand Inventory of Chemicals** : All components are listed or exempted. (NZIoC) **Philippines inventory (PICCS)** : All components are listed or exempted. : All components are listed or exempted. Korea inventory (KECI) **Taiwan Chemical Substances Inventory** : All components are listed or exempted. (TCSI) **Thailand inventory** : Not determined. : Not determined. **Turkey inventory United States inventory (TSCA 8b)** : All components are listed or exempted. **Vietnam inventory** : Not determined.

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



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## **SECTION 15: Regulatory information**

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

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level DMEL = Derived Minimal Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration LC50 = Median lethal concentration LD50 = Median lethal dose OEL = Occupational Exposure Limit VOC = Volatile Organic Compound UVCB Substance of unknown or Variable composition. Complex reaction products</li> </ul>
	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

Not classified.

Full text of abbreviated H statements

<b>⊮</b> 304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H411	Toxic to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	

### Full text of classifications

Aquatic Chronic 2 Aquatic Chronic 4 Asp. Tox. 1 Eye Dam. 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Date of printing	: 2022/09/02
Date of issue/ Date of revision	: 2022/09/01
Date of previous issue	e : 2021/03/01
Version	: 2
Notice to reader	

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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.