

## 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 15W-40** 

SDS no. 087157

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

**1.1 Product identifier Product name Product code** : 087157 **Product description** : Not available. **Product type** : Liquid. Other means of

### : RUBIA OPTIMA 1100 15W-40

identification

: 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

**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

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#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

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



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

2.1 Classification of the subs	stance or mixture		
Product definition	: Mixture		
Classification according to Not classified.	Regulation (EC) No. 1272/2008 [CLP/GHS]		
The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.			
Ingredients of unknown ecotoxicity	: Contains 3.9% 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	: Not applicable.		
Response	: Not applicable.		
Storage	: Not applicable.		
Disposal	: Not applicable.		
Supplemental label elements	<ul> <li>Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.</li> <li>Safety data sheet available on request.</li> </ul>		
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	: Hazard 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
eaction 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	≤3	Aquatic Chronic 4, H413	[1]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7	≤3	Asp. Tox. 1, H304	[1]
Distillates (petroleum), solvent- dewaxed heavy paraffinic	Index: 649-467-00-8 REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0	≤3	Asp. Tox. 1, H304	[1]
Distillates (petroleum), solvent- dewaxed light paraffinic	Index: 649-474-00-6 REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9	≤3	Asp. Tox. 1, H304	[1]
Paraffin oils (petroleum), catalytic dewaxed heavy	Index: 649-469-00-9 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]
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	REACH #: 01-0000019337-66 EC: 457-320-2	≤0.3	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
			See Section 16 for the full text of the H statements declared above.	

 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.

Туре

[1] Substance classified with a health or environmental hazard

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



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

#### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. 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

<u> Over-exposure signs/</u>	<u>symptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.

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

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

## **SECTION 5: Firefighting measures**

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5.1 Extinguishing media Suitable extinguishing media	:
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	from the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: carbon monoxide carbon dioxide Silicon Dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides



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## **SECTION 5: Firefighting measures**

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	<ul> <li>Fire-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, pro	tive equipment and emergency procedures
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel fro entering. Do not touch or walk through spilt material. Put on appropriate persor protective equipment.
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, drai and sewers. Inform the relevant authorities if the product has caused environme pollution (sewers, waterways, soil or air).
6.3 Methods and material for	tainment and cleaning up
Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and 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 icensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sev water courses, basements or confined areas. Wash spillages into an effluent reatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous e 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



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

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	: Not available.

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

#### 8.1 Control parameters

solutions

#### **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
Peaction 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
5 51 571 1	DNEL	Long term Dermal	8.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.74 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	4.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.43 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.006 mg/ cm <sup>2</sup>	Workers	Local
	DNEL	Long term Oral	0.16 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.22 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.33 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.74 mg/m <sup>3</sup>		Systemic
	DNEL DNEL	Short term Dermal Long term	1 mg/cm² 2.33 mg/m³	Workers Workers	Local Systemic



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		Inhalation			
	DNEL	Short term Dermal	8.33 mg/ cm²	General population	Local
	DNEL	Short term Dermal	20 mg/kg	Workers	Systemic
	DNEL	Short term Oral	bw/day 50 mg/kg	General	Systemic
	DNEL	Short term Dermal	bw/day 50 mg/kg	population General	Systemic
	DNEL	Short term	bw/day 875 mg/m³	population General	Systemic
	DNEL	Inhalation Short term	1750 mg/	population Workers	Systemic
Distillates (petroleum), hydrotreated	DNEL	Inhalation Long term Oral	m³ 0.74 mg/	General	Systemic
neavy paraffinic	DNEL	Long term Dermal	kg bw/day 0.97 mg/	population Workers	Systemic
	DNEL	Long term	kg bw/day 1.19 mg/m³	General	Local
	DNEL	Inhalation Long term	2.73 mg/m <sup>3</sup>	population	Systemic
	DNEL	Inhalation Long term	5.58 mg/m <sup>3</sup>		Local
Distillates (petroleum), solvent-	DNEL	Inhalation Long term	5.58 mg/m <sup>3</sup>		Local
dewaxed heavy paraffinic	DNEL	Inhalation Long term	1.19 mg/m <sup>3</sup>		Local
	DNEL	Inhalation	-	population General	
		Long term Oral	740 µg/kg	population	Systemic
	DNEL DNEL	Long term Dermal Long term Inhalation	970 µg/kg 2.73 mg/m³	Workers Workers	Systemic 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>		Systemic
	DNEL	Long term Inhalation	5.58 mg/m <sup>3</sup>	Workers	Local
Distillates (petroleum), solvent- dewaxed light paraffinic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term	1.19 mg/m <sup>3</sup>		Local
	DNEL	Inhalation Long term	2.73 mg/m <sup>3</sup>	population Workers	Systemic
	DNEL	Inhalation Long term	5.58 mg/m <sup>3</sup>	Workers	Local
Paraffin oils (petroleum), catalytic	DNEL	Inhalation Long term Oral	0.74 mg/	General	Systemic
dewaxed heavy	DNEL	Long term Dermal	kg bw/day 0.97 mg/	population Workers	Systemic
	DNEL	Long term	kg bw/day 1.19 mg/m³	General	Local

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		Inhalation		population	
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
inc bis[O-(6-methylheptyl)] bis[O- sec-butyl)] bis(dithiophosphate)	DNEL	Long term Oral	0.24 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.29 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.58 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.11 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	8.31 mg/m <sup>3</sup>	Workers	Systemic

#### **PNECs**

Product/substance	<b>Compartment Detail</b>	Value	Method Detail
Action mass of isomers of: C7-9-alkyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl) propionate	Fresh water	0.0043 mg/l	-
	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), hydrotreated heavy paraffinic	Secondary Poisoning	9.33 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	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measu	res	
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		



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## **SECTION 8: Exposure controls/personal 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	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	<ul> <li>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.</li> </ul>
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).
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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

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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 physic	al and chemical properties
Appearance	
Physical state	: Liquid. [Clear]
Colour	: Amber.
Odour	: Characteristic.
Odour threshold	: Not available.
Melting point/freezing point	: Technically not possible to measure
Initial boiling point and boiling range	: ▶316°C (>600.8°F) [ISO 3405]
Flammability (solid, gas)	: Not applicable.
Upper/lower flammability or explosive limits	: Lower: 0.9% Upper: 7%
Flash point	: 🗭pen cup: >220°C (>428°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): 112 mm²/s [ISO 3104]



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

Solubility(ies) :	
Media	Result
water	Not soluble
Miscible with water :	No.
Partition coefficient: n-octanol/ : water	Not applicable.
	<0.013 kPa (<0.1 mm Hg) [room temperature] Not applicable. [50°C (122°F)]
Relative density :	0.87 [ISO 12185]
Density :	Ø.87 g/cm³ [15°C (59°F)] [ISO 12185]
Vapour density :	>2 [Air = 1]
Particle characteristics	
Median particle size :	Not applicable.

9.2 Other information

SECTION 10: Stabilit	y	and reactivity
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
10.5 Incompatible materials	:	Strong oxidising agents
10.6 Hazardous decomposition products	:	earbon monoxide carbon dioxide Silicon 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



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## SECTION 11: Toxicological information

Product/substance	Result	Species	Dose	Exposure	Test		
₱ pistillates (petroleum),	LC50 Inhalation Dusts	Rat - Male,	>5 mg/l	4 hours	OECD 403		
hydrotreated heavy paraffinic	and mists	Female			Read across		
	LD50 Dermal	Rabbit - Male, 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),	LC50 Inhalation Dusts	Rat	>5 mg/l	- 4 hours	OECD 420 OECD 403		
solvent-dewaxed light	and mists	Nat	25 mg/i	4 110013	0200 400		
	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402		
	LD50 Oral	Rat	>5000 mg/kg	-	OECD 401		
Paraffin oils (petroleum), catalytic dewaxed heavy	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-		
	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)] bis[O-(sec-butyl)] bis (dithiophosphate)	LC50 Inhalation Dusts and mists	Rat - Male	>2 mg/l	1 hours	OECD 403		
	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)
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
Conclusion/Summary					

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

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

#### Respiratory Sensitisation

Skin

Eyes

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



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## **SECTION 11: Toxicological information**

<b>Conclusion/Summary</b>	1 · · · · · · · · · · · · · · · · · · ·
Skin	: Based on available data, the classification criteria are not met. Contains sensitiser May produce an allergic reaction.
Respiratory	: Based on available data, the classification criteria are not met.

Mutagenicity

Product/substance	Test	Experiment	Result
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	OECD 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 474	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

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

#### **Carcinogenicity**

Product/substance	Result	Species	Dose	Exposure
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl- 4-hydroxyphenyl) propionate	Negative - Oral - TC	Rat - Male, Female	-	-

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

#### Reproductive toxicity

Product/substance	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	Negative	Negative	Negative	Rat - Male, Female	Oral	-

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

#### **Teratogenicity**

Product/substance	Result	Species	Dose	Exposure
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	Negative - Oral	Rat - Male, Female	-	-

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

#### Specific target organ toxicity (single exposure)

Not available.

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

#### Specific target organ toxicity (repeated exposure)

Not available.

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

Aspiration hazard

Product/substance	Result
♥istillates (petroleum), hydrotreated heavy paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	ASPIRATION HAZARD - Category 1
Distillates (petroleum), solvent-dewaxed light paraffinic	ASPIRATION HAZARD - Category 1
Paraffin oils (petroleum), catalytic dewaxed heavy	ASPIRATION HAZARD - Category 1



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Conclusion/Summary	:	: Based on available data, the classification criteria are not met.					
Information on likely routes of exposure	:	: Not available.					
Potential acute health effects	5						
Eye contact	:	No known significant effects	or critical hazards	6.			
Inhalation	:	No known significant effects	or critical hazards	6.			
Skin contact	:	Defatting to the skin. May c	ause skin dryness	and irritation.			
Ingestion	:	No known significant effects	or critical hazards	6.			
Symptoms related to the phy	sic	cal, chemical and toxicolog	ical characteristic	<u>25</u>			
Eye contact	:	No specific data.					
Inhalation	:	No specific data.					
Skin contact	:	: Adverse symptoms may include the following: irritation dryness cracking					
Ingestion	:	: No specific data.					
Delayed and immediate effec	ts	as well as chronic effects f	rom short and lor	<u>ng-term exposu</u>	<u>re</u>		
Short term exposure							
Potential immediate effects	;	Not available.					
Potential delayed effects	:	Not available.					
Long term exposure							
Potential immediate effects	:	: Not available.					
Potential delayed effects	:	: Not available.					
Potential chronic health effe	ect	<u>s</u>					
Product/substance	R	esult	Species	Dose	Exposure		
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis		Sub-chronic LOAEL Dermal	Rabbit - Male, Female	70 mg/kg	-		
(dithiophosphate)		Sub-chronic NOAEL Oral	Rat - Male,	160 mg/kg	-		

(dimoprosphate)	Sub-chronic NOAEL Oral	Rat - Male, Female	160 mg/kg	-	
Conclusion/Summary	: Not available.	·	·	·	
General	: No known significant effect	: 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 effect	s or critical hazards	5.		
Reproductive toxicity	: No known significant effect	s or critical hazards	<b>.</b>		

#### 11.2 Information on other hazards



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## **SECTION 11: Toxicological information**

### 11.2.1 Endocrine disrupting properties

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

#### 11.2.2 Other information

Not available.

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

#### 12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Chronic NOEL >100 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Acute EL50 >10000 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
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
•	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	Álgae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	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 subcapitata	72 hours	-
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	Acute EC50 2 mg/l	Algae - Selenastrum capricornutum	96 hours	OECD 201
(annopriospirato)	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



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	Chronic NOEC 0.4 mg/l	Crustaceans - Daphnia	48 hours	OECD 211
Molybdenum polysulphide ong chain alkyl dithiocarbamate complex	Acute EC50 9.6 mg/l	magna Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Acute EC50 50 mg/l	Crustaceans - Daphnia magna	48 hours	OECD 202
	Acute LC50 94.8 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEC 4.1 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201

#### 12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
Feaction 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), hydrotreated heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
Distillates (petroleum), solvent-dewaxed light paraffinic	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	OECD 301B	0 % - Not readily - 28 days	-	Activated sludge
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	OECD 301B	0 % - Not readily - 28 days	-	Activated sludge

#### **Conclusion/Summary** : Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
reaction mass of isomers of:	-	-	Not readily
C7-9-alkyl 3-(3,5-di-tert-			
butyl-4-hydroxyphenyl)			
propionate Distillates (petroleum),			Not readily
hydrotreated heavy paraffinic		_	Notreadily
Distillates (petroleum),	-	_	Not readily
solvent-dewaxed heavy			
paraffinic			
Distillates (petroleum),	-	-	Not readily
solvent-dewaxed light paraffinic			
Paraffin oils (petroleum),	_	_	Not readily
catalytic dewaxed heavy			Notroadily
zinc bis[O-(6-methylheptyl)]	-	-	Not readily
bis[O-(sec-butyl)] bis			
(dithiophosphate)			
	l	I	



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# SECTION 12: Ecological information Molybdenum polysulphide long chain alkyl dithiocarbamate complex Not readily

#### 12.3 Bioaccumulative potential

Product/substance	LogP <sub>ow</sub>	BCF	Potential
Peaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-	9.2	260	low
butyl-4-hydroxyphenyl) propionate			
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	high
Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.2	260	low
Distillates (petroleum), solvent-dewaxed light paraffinic	3.1	-	low
zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis (dithiophosphate)	0.9	-	low
Molybdenum polysulphide long chain alkyl dithiocarbamate complex	>5.1	88	low

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 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**

io.i waste treatment methods	
<u>Product</u>	
Methods of disposal :	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste :	Yes.
	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only suggestions: 13 02 05*
Packaging	
Methods of disposal :	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions :	This material and its container must be disposed of in a safe way. 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 bulk according to IMO instruments

: Not available.

Date of revision : 2023/04/24



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### **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 Conventi	on List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol Not listed.	
Stockholm Convention on P Not listed.	Persistent Organic Pollutants
Rotterdam Convention on P	rior Informed Consent (PIC)
Not listed.	

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**



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

Not listed.

Inventory list	
Australia inventory (AIIC)	: Not determined.
Canada inventory	: Not determined.
China inventory (IECSC)	: All components are listed, exempted, or notified.
Europe inventory	: All components are listed or exempted.
Japan inventory	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand Inventory of Chemicals (NZIoC)	: All components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI)	: All components are listed or exempted.
Thailand inventory	: Not determined.
Turkey inventory	: Not determined.
United States inventory (TSCA 8b)	: At least one component is not listed.
Vietnam inventory	: Not determined.
The information stated in this section values	

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

### Procedure used to derive the classification

Not classified.



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## **SECTION 16: Other information**

#### Full text of abbreviated H statements

5	ay be fatal if swallowed and enters airways. auses skin irritation.	
	cause an allergic skin reaction.	
5	ses serious eye damage.	
	c to aquatic life with long lasting effects.	
	Harmful to aquatic life with long lasting effects.	
H413 May	May cause long lasting harmful effects to aquatic life.	
Full text of classificat	<u>ions</u>	
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2	
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	
Aquatic Chronic 4	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1	
Skin Irrit. 2 Skin Sens. 1B	SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1B	
Date of printing	: 2023/04/24	
Date of issue/ Date of revision	: 2023/04/24	
Date of previous issue	e : 2023/01/06	
Version	: 2.01	

#### 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.