



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

**EVOLUTION 700 TURBO D 10W-40** 

**SDS no.** 082001

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

1.1 Product identifier

Product name : EVOLUTION 700 TURBO D 10W-40

Product code : 082001

Product description : Not available.

Product type : Liquid.

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

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rm.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited 10 Upper Bank Street (19th floor)

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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

**Supplier** 

**Telephone number**: Emergency telephone: +44 1235 239670

Hours of operation : Edit the content of sentence <GB Telephone Number - Supplier - Hours of

operation> to define this output

Information limitations : Edit the content of sentence <GB Telephone Number - Supplier - Information

limitations> to define this output

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# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance 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 16.7% of components with unknown hazards to the aquatic environment

ecotoxicity

See Section 11 for more detailed 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. : Not applicable. **Storage Disposal** : Not applicable.

Supplemental label

elements

: Contains Calcium long chain alkaryl sulfonate. 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 : Hazard of slipping on spilt product.

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

3.2 Mixtures : Mixture

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

Product/ingredient name	Identifiers	%	Classification	Type
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-	REACH #: 01-2119474889-13	≥10 - ≤25	Asp. Tox. 1, H304	[1]
based	EC: 276-738-4			
	CAS: 72623-87-1			
Phosphorodithioic acid, mixed O,	Index: 649-483-00-5 REACH #:	<2.5	Eye Dam. 1, H318	[1]
O-bis(sec-Bu and	01-2119657973-23	12.0	Aquatic Chronic 2,	[,]
1,3-dimethylbutyl) esters, zinc salts	EC: 272-238-5		H411	
	CAS: 68784-31-6		01: 0 45 11047	
Calcium long chain alkaryl sulfonate	EC: 682-816-2 CAS: 722503-68-6	<1	Skin Sens. 1B, H317	[1]
Sullonate	CAS. 722303-00-0		0 0	
			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.

# Type

[1] Substance classified with a health or environmental hazard

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

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

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

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical attention if symptoms occur.

**Skin contact**: Wash skin thoroughly with soap and water or use recognised skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

# 4.2 Most important symptoms and effects, both acute and delayed

#### **Over-exposure signs/symptoms**

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

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# **SECTION 4: First aid measures**

Ingestion : No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

### 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 phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

# 5.3 Advice for firefighters

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# SECTION 6: Accidental release measures

# 6.1 Personal precautions, 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: If 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

Avoid 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** 

: 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 noncombustible, 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** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific 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.

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

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	Type	Exposure	Value	Population	Effects
Lubricating oils (petroleum), C20-50,	DNEL	Long term	2.73 mg/m <sup>3</sup>	Workers	Systemic
hydrotreated neutral oil-based	DNEL	Inhalation Long term Oral	0.74 mg/	General	Local
			kg bw/day	population	
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	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/m³	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl)	DNEL	Long term Oral	0.21 mg/ kg bw/day	General population	Systemic
esters, zinc salts					
	DNEL	Long term Dermal	2.1 mg/kg	General	Systemic
	DNEL	Long term Inhalation	bw/day 2.93 mg/m³	population Workers	Systemic
	DNEL	Long term Dermal	10.42 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	11.75 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Short term Dermal	50 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	100 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	198.6 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	496.4 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	9.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	6.6 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	4.8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.67 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	0.19 mg/	General	Systemic

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SECTION 8: Exposure	e controls/personal protection
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DNEL	Short term Oral	kg bw/day 29 mg/kg bw/day	population General population	Systemic
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#### **PNECs**

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

### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne 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**

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.EN 166

# Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hydrocarbon-proof gloves

nitrile rubber

Fluorinated rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency

# **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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# SECTION 8: Exposure controls/personal protection

**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

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** : Liquid. [Clear]

Colour Yellow.

**Odour** : Characteristic. **Odour threshold** : Not available.

Melting point/freezing point

Initial boiling point and

: Technically not possible to measure : >316°C (>600.8°F) [ISO 3405]

boiling range Flammability (solid, gas)

: Not applicable.

Upper/lower flammability or

: Lower: 0.9%

explosive limits

Upper: 7%

Flash point **Auto-ignition temperature**  : Open cup: 232°C (449.6°F) [ASTM D 92] : >232°C (>449.6°F) [ASTM E 659]

**Decomposition temperature** 

: Not applicable.

pН

: Not applicable. Product is non-soluble (in water).

**Viscosity** 

Kinematic (40°C): 96.81 mm<sup>2</sup>/s [ASTM D 445]

Solubility(ies)

Media	Result
water	Not soluble

Solubility in water : 0.955 g/l

Miscible with water : No.

Partition coefficient: n-octanol/ : Not applicable.

water

: <0.013 kPa (<0.1 mm Hg) [room temperature] Vapour pressure

Not applicable. [50°C (122°F)]

Relative density : 0.873 [ISO 12185]

: 0.873 g/cm3 [15°C (59°F)] [ISO 12185] **Density** 

Vapour density : >2 [Air = 1]

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

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# **SECTION 10: Stability and reactivity**

10.1 Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: Stable under recommended storage and handling conditions (see Section 7).

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

10.5 Incompatible materials

: No specific data.

10.6 Hazardous decomposition products : carbon monoxide carbon dioxide phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans Zinc oxides

# **SECTION 11: Toxicological information**

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

Product/substance	Result	Species	Dose	Exposure	Test
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	OECD 403
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-	OECD 402 Read across
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-	OECD 401 Read across
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	LD50 Dermal	Rabbit	>5000 mg/kg	-	OECD 402 Acute Dermal Toxicity
	LD50 Oral	Rat	3.4 g/kg	-	OECD 401 Acute Oral Toxicity
Calcium long chain alkaryl sulfonate	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LC50 Inhalation Vapour LC50 Inhalation Vapour	Rat Rat	80.4 mg/l 20.1 mg/l	1 hours 4 hours	-

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

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# **SECTION 11: Toxicological information**

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.1
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	3400	N/A	N/A	N/A	N/A
Calcium long chain alkaryl sulfonate	N/A	N/A	N/A	20.1	5.1

### Irritation/Corrosion

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

# **Conclusion/Summary**

Skin

: Based on available data, the classification criteria 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

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

# **Sensitisation**

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

# **Conclusion/Summary**

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

**Conclusion/Summary** 

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

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# SECTION 11: Toxicological information

**Carcinogenicity** 

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

**Reproductive toxicity** 

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

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

**Teratogenicity** 

**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	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ASPIRATION HAZARD - Category 1	

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

Information on likely routes : Not available.

of exposure

Potential acute health effects

**Eve contact** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

**Skin contact** : Defatting to the skin. May cause skin dryness and irritation.

: No known significant effects or critical hazards. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

**Eve contact** : No specific data. Inhalation : No specific data.

**Skin contact** : Adverse symptoms may include the following:

irritation dryness cracking

: No specific data. Ingestion

Delayed and immediate effects as well as chronic effects from short and long-term exposure **Short term exposure** 

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# SECTION 11: Toxicological information

**Potential immediate** 

effects

: Not available.

Potential delayed effects

: Not available.

**Long term exposure** 

Potential immediate

: Not available.

effects

: Not available. Potential delayed effects

#### Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	Sub-acute NOAEL Oral	Rat	125 mg/kg	-

**Conclusion/Summary** : Not available.

General

: No known significant effects or critical hazards.

Carcinogenicity : During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is

thoroughly removed by washing with soap and water.

: No known significant effects or critical hazards. Mutagenicity Reproductive toxicity : No known significant effects or critical hazards.

### 11.2 Information on other hazards

# 11.2.1 Endocrine disrupting properties

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

### 11.2.2 Other information

Not available.

# SECTION 12: Ecological information

# 12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Lubricating oils (petroleum), C20-50, hydrotreated	Acute EL50 >100 mg/l	Algae - Pseudokirchneriella	48 hours	OECD 201
neutral oil-based		subcapitata		
	Acute EL50 >10000 mg/l	Crustaceans - Daphnia	48 hours	OECD 202
	Acute LL50 >100 mg/l	magna Fish - Pimephales	96 hours	OECD 203
	Chronic NOEL >100 mg/l	promelas Algae -	72 hours	OECD 201
	g	Pseudokirchneriella	. =	
	Chronic NOEL >1000 mg/l	subcapitata Crustaceans - Daphnia	21 days	OECD 211
		magna		
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and	Acute EC50 240 mg/l	Algae - Desmodesmus subspicatus	72 hours	-

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1,3-dimethylbutyl) esters, zinc salts				
	Acute EC50 75 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute LC50 4.4 mg/l	Fish	96 hours	-

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301F	31 % - Not readily - 28 days	-	Activated sludge

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

Product/substance	Aquatic half-life	<b>Photolysis</b>	Biodegradability
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Calcium long chain alkaryl sulfonate	-	-	Not readily  Not readily

# 12.3 Bioaccumulative potential

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

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: 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.

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# **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** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only

suggestions: 13 02 05\*

**Packaging** 

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

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

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

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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** : 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** 

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# SECTION 15: Regulatory information

Not listed.

**Inventory list** 

: Not determined. Australia inventory (AIIC) : Not determined. **Canada inventory China inventory (IECSC)** : Not determined.

: All components are listed or exempted. **Europe inventory** Japan inventory Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined. : All components are listed or exempted.

**New Zealand Inventory of Chemicals** 

(NZIoC)

**Philippines inventory (PICCS)** : At least one component is not listed.

: Not determined. Korea inventory (KECI) **Taiwan Chemical Substances Inventory** : Not determined.

(TCSI) **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 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 assessment

This product contains substances for which Chemical Safety Assessments are still 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

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

# **Full text of classifications**

Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Eye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

Skin Sens. 1B SKIN SENSITISATION - Category 1B

Date of printing : 2023/01/06 Date of issue/ Date of : 2023/01/06

revision

Date of previous issue : 2021/12/13

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.

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