

# SAFETY DATA SHEET

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

TRAXIUM AXLE 8 75W-90

**SDS no.** 090734

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

**1.1 Product identifier** 

Product name

Other means of

identification

: TRAXIUM AXLE 8 75W-90

Product code Product description Product type : 090734

: Not available.

: Liquid.

: Not available.

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

Identified uses	
Transmission fluids	
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** 

<b>Nationa</b>	advisory	body/Poison Centre

Telephone number	: National Poisons Information Service (NPIS): 111
<u>Supplier</u>	
Telephone number	: Emergency telephone: +44 1235 239670



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

2.1 Classification of the subs	or mixture	
Product definition	ture	
Classification according to Not classified.	tion (EC) No. 1272/2008 [CLP/GHS]	
The product is not classified a	rdous according to UK CLP Regulation SI 2019/720 as an	nended.
Ingredients of unknown ecotoxicity	ntains 11% of components with unknown hazards to the a	quatic environment
See Section 11 for more deta	rmation on health effects and symptoms.	
2.2 Label elements		
Signal word	signal word.	
Hazard statements	known significant effects or critical hazards.	
Precautionary statements		
Prevention	applicable.	
Response	applicable.	
Storage	applicable.	
Disposal	applicable.	
Supplemental label elements	ntains Reaction products of 4-methyl-2-pentanol and dipho poxylated, esterified with diphosphorus pentaoxide, and se 2-14- tert-alkyl and methyl methacrylate. May produce an a ety data sheet available on request.	alted by amines,
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	applicable.	
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	s mixture does not contain any substances that are asses (B in a concentration >= 0,1 %. s product does not contain any substance present at a con- ater than 0.1% by mass, included in the list drawn up in ac- paragraph 1 of the REACh Regulation, due to its endocrine a substance known to have endocrine disrupting properties criteria set out in Commission Delegated Regulation (EU) mmission Regulation 2018/605.	ncentration equal to or ccordance with article ne disrupting properties, s in accordance with
Other hazards which do not result in classification	zard 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	Asp. Tox. 1, H304	[1]
Distillates (petroleum), solvent- dewaxed heavy paraffinic	REACH #: 01-2119471299-27 EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6	≤10	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	≤10	Asp. Tox. 1, H304	[1]
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≤10	Asp. Tox. 1, H304	[1]
Polysulfides, di-tert-Bu	REACH #: 01-2119540515-43 EC: 273-103-3 CAS: 68937-96-2	≤3	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	[1]
Reaction products of 4-methyl- 2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	REACH #: 01-2119493620-38 EC: 931-384-6	≤2.1	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	[1]
methyl methacrylate	REACH #: 01-2119452498-28 EC: 201-297-1 CAS: 80-62-6 Index: 607-035-00-6	≤0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

Additional information DMSO extract as measured by IP 346 The product is made from synthetic base oils

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

[2] Substance with a workplace exposure limit

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

Over-exposure signs/	<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**

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 nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans

#### 5.3 Advice for firefighters



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### **SECTION 5: Firefighting measures**

Special protective actions for fire-fighters	ate the scene by removing all persons from the vicinity of the incident if . No action shall be taken involving any personal risk or without ng.
Special protective equipment for fire-fighters	should wear appropriate protective equipment and self-contained paratus (SCBA) with a full face-piece operated in positive pressure

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

6.1 Personal precautions, pro	ective 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
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	: 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	Spec	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

Product/substance	Exposure limit values
methyl methacrylate	EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 416 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.

# 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.

### **Biological Limit Values (BLV)**

No exposure indices known.

Recommended monitoring procedures	: 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,<br/>STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

### **DNELs/DMELs**

Product/substance	Туре	Exposure	Value	Population	Effects
Distillates (petroleum), hydrotreated	DNEL	Long term Oral	0.74 mg/	General	Systemic
heavy paraffinic	DNEL	Long term Dermal	kg bw/day 0.97 mg/	population Workers	Systemic
		-	kg bw/day		
	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
Distillates (petroleum), solvent- dewaxed heavy 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 Inhalation	1.19 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term	2.73 mg/m <sup>3</sup>	Workers	Systemic



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SECTION 8: Exposure cont	trols/p	ersonal prote	ction		
	DNEL	Inhalation Long term	5.58 mg/m <sup>3</sup>	Workers	Local
Distillates (petroleum), solvent-	DNEL	Inhalation Long term Oral	0.74 mg/	General	Systemic
dewaxed light paraffinic	DNEL	-	kg bw/day	population Workers	-
		Long term Dermal	0.97 mg/ kg bw/day		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	5.58 mg/m <sup>3</sup>	Workers	Local
Distillates (petroleum), hydrotreated	DNEL	Inhalation Long term	5.4 mg/m³	Workers	Local
light paraffinic	DNEL	Inhalation Long term Inhalation	1.2 mg/m³	General	Local
	DNEL	Long term Oral	0.74 mg/ kg bw/day	population 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
Polysulfides, di-tert-Bu	DNEL	Long term Inhalation	0.58 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Inhalation	3.29 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Oral	0.167 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1.67 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4.67 mg/ kg bw/day	Workers	Systemic
Reaction products of 4-methyl- 2-pentanol and diphosphorus	DNEL	Long term Dermal	12.5 mg/kg	Workers	Systemic
pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines,					
C12-14- tert-alkyl	DNEL	Long term	4.28 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Inhalation Long term Dermal	6.25 mg/kg		Systemic
	DNEL	Long term	1.09 mg/m³		Systemic
	DNEL	Inhalation Long term Oral	0.25 mg/	population General	Systemic
	DNEL	Long term Dermal	day 0.16 mg/ cm²	population Workers	Local
methyl methacrylate	DNEL	Long term Oral	8.2 mg/kg	General	Systemic
	DNEL	Short term Inhalation	bw/day 208 mg/m³	population General population	Local



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SECTION 8: Exposure controls/personal protection						
DNEL	Short term Inhalation	416 mg/m <sup>3</sup>	Workers	Local		
DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>	General population	Local		
DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>		Local		
DNEL	Short term Dermal	1.5 mg/cm <sup>2</sup>		Local		
DNEL	Long term Dermal	1.5 mg/cm <sup>2</sup>		Local		
DNEL	Long term Dermal	8.2 mg/kg bw/day	General population	Systemic		
DNEL	Long term Dermal	13.67 mg/ kg bw/day	Workers	Systemic		
DNEL	Long term Inhalation	74.3 mg/m <sup>3</sup>	General population	Systemic		
DNEL	Long term Inhalation	104 mg/m <sup>3</sup>	General population	Local		
DNEL	Long term Inhalation	208 mg/m <sup>3</sup>	Workers	Local		
DNEL	Long term Inhalation	348.4 mg/ m³	Workers	Systemic		

#### **PNECs**

Product/substance	Compartment Detail	Value	Method Detail
Distillates (petroleum), hydrotreated heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Secondary Poisoning	9.33 mg/kg	-
Polysulfides, di-tert-Bu	Fresh water	0.00024 mg/l	-
	Marine water	0.000024 mg/l	-
	Fresh water sediment	0.94 mg/kg dwt	-
	Marine water sediment	0.094 mg/kg dwt	-
	Soil	1513 mg/kg	-
	Sewage Treatment Plant	4.51 mg/l	-
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	Fresh water	2.4 µg/l	-
,	Marine water	240 ng/l	-
	Fresh water sediment	12.9 µg/kg dwt	-
	Marine water sediment	1.29 µg/kg dwt	-
	Soil	1.17 µg/kg dwt	-
	Sewage Treatment Plant	24.33 mg/l	-
	Secondary Poisoning	10 mg/kg	-
methyl methacrylate	Fresh water	0.94 mg/l	-
· ·	Marine water	0.94 mg/l	-
	Fresh water sediment	5.74 mg/kg dwt	-
	Soil	1.47 mg/kg dwt	-
	Sewage Treatment Plant	10 mg/l	-

#### 8.2 Exposure controls



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

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection measu	<u>res</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.EN 166
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
	Hydrocarbon-proof gloves nitrile rubber Fluorinated rubber
	Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
	In case of prolonged contact with the product, it is recommended to wear gloves complying with ISO 21420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency
Body protection	<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>
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 physic	al and chemical properties
Appearance	
Physical state	: Liquid. [Clear]
Colour	: Amber.
Odour	: Characteristic.
Melting point/freezing point	: Technically not possible to measure
Initial boiling point and boiling range	: >316°C (>600.8°F) [EN ISO 3405]



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			:
SECTION 9: Physical an	ıd	I chemical properties	
Flammability (solid, gas)	:	Not applicable.	
Upper/lower flammability or explosive limits	:	Lower: 0.9% Upper: 7%	
Flash point	:	Open cup: 210°C (410°F) [ASTM D 92]	
Auto-ignition temperature	:	>210°C (>410°F) [ASTM E 659]	
Decomposition temperature	:	Not applicable.	
рН	:	Not applicable. Product is non-soluble	(in water).
Viscosity	:	Kinematic (40°C): 106 mm²/s [ISO 3104]	
Solubility(ies)	:		
Media		Result	
water		Not soluble	
Solubility in water	:	0.875 g/l	
Miscible with water	:	No.	
Partition coefficient: n-octanol/ water	:	Not applicable.	
Vapour pressure	: <0.013 kPa (<0.1 mm Hg) [room temperature] [ASTM D 5191] Not applicable. [50°C (122°F)]		
Relative density	1	0.884 [ISO 3675]	
Density	1	0.884 g/cm³ [15°C (59°F)] [ISO 3675]	
Vapour density	:	>2 [Air = 1]	
Particle characteristics			
Median particle size	1	Not applicable.	

#### 9.2 Other information

SECTION 10: Stabilit	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	: Strong oxidising agents				
10.6 Hazardous decomposition products	: carbon monoxide carbon dioxide nitrogen oxides phosphorus oxides sulfur oxides Hydrogen sulfide Mercaptans				



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## **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
Distillates (petroleum), hydrotreated heavy paraffinic	LC50 Inhalation Dusts and mists	Rat - Male, Female	>5 mg/l	4 hours	OECD 403 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), 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
Distillates (petroleum), hydrotreated 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 420
Polysulfides, di-tert-Bu	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-	OECD 402
	LDLo Oral	Rat - Male, Female	2000 mg/kg	-	OECD 401
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	LC50 Inhalation Dusts and mists	Rat	5.1 mg/l	4 hours	-
	LC50 Inhalation Vapour LC50 Inhalation Vapour LD50 Dermal	Rat Rat Rabbit	80.4 mg/l 20.1 mg/l 2201 mg/kg	1 hours 4 hours -	-  -
methyl methacrylate	LD50 Oral LC50 Inhalation Vapour	Rat Rat	2000 mg/kg 29.8 mg/l	- 4 hours	OECD 401 -
	LD50 Dermal LD50 Oral	Rabbit Rat	>5 g/kg 7872 mg/kg	-  -	OECD 402 -

#### Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
TRAXIUM AXLE 8 75W-90 Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl methyl methacrylate	142857.1 2000 7872	N/A 2201 N/A	N/A N/A	N/A 20.1 29.8	N/A 5.1 N/A



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# **SECTION 11: Toxicological information**

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

#### Irritation/Corrosion

Product/substance	Result	Species	Score	Exposure	Test
Polysulfides, di-tert-Bu	Eyes - Cornea opacity	Rabbit	0	-	OECD 405
	Skin - Erythema/Eschar	Rabbit	2	-	OECD 404
methyl methacrylate	Skin - Irritant	Rabbit	-	4 hours	-

#### **Conclusion/Summary**

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

#### Respiratory Sensitisation

Skin

**Eyes** 

Product/substance	Route of exposure	Species	Result
Polysulfides, di-tert-Bu methyl methacrylate	skin skin	Guinea pig Mouse	Sensitising Sensitising
Canalusian/Summany			

Conclusion/Summary	:
Skin	<ul> <li>Based on available data, the classification criteria are not met. Contains sensitizer. May produce an allergic reaction.</li> </ul>

### Respiratory

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

#### **Mutagenicity**

Product/substance	Test	Experiment	Result
Polysulfides, di-tert-Bu	OECD 471	Experiment: In vitro	Negative
		Subject: Bacteria	
	OECD 473	Experiment: In vitro	Negative
		Subject: Mammalian-Animal	
	OECD 476	Experiment: In vitro	Negative
		Subject: Mammalian-Animal	
	OECD 474	Experiment: In vivo	Negative
		Subject: Mammalian-Animal	
Conclusion/Summary	: Based on available	e data, the classification criteria are not	met.
Carcinogenicity			
Conclusion/Summary	: Based on available	e data, the classification criteria are not	met.

Reproductive toxicity

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

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

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

Product/substance	Category	Route of exposure	Target organs
methyl methacrylate	Category 3		Respiratory tract irritation

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

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

Not available.

**Teratogenicity** 



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# **SECTION 11: Toxicological information**

Conclusion/Summary	: Based on available data, the class	ification criteria are not met.		
Aspiration hazard				
Produ	ct/substance	Result		
Distillates (petroleum), solvent-dewaxed heavy paraffinic Distillates (petroleum), solvent-dewaxed light paraffinic		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1		
Conclusion/Summary	: Based on available data, the class	ification criteria are not met.		
Information on likely routes of exposure	: Not available.			
Potential acute health effects	2			
Eye contact	: No known significant effects or cri	tical hazards.		
Inhalation	: No known significant effects or cri	tical hazards.		
Skin contact	: Defatting to the skin. May cause s	skin dryness and irritation.		
Ingestion	: No known significant effects or critical hazards.			
Symptoms related to the phy	vsical, chemical and toxicological ch	naracteristics		
Eye contact	: No specific data.			
Inhalation	: No specific data.			
Skin contact	: Adverse symptoms may include th irritation dryness cracking	ne following:		
Ingestion	: No specific data.			
Delayed and immediate effect	ts as well as chronic effects from s	hort and long-term exposure		
Short term exposure				
Potential immediate	: Not available.			

Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

#### Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure		
Polysulfides, di-tert-Bu	Sub-acute NOAEL Oral	Rat - Male, Female	100 mg/kg	-		
Conclusion/Summary	: Not available.					
General	: No known significant effects or critical hazards.					
Carcinogenicity	: No known significant effects or critical hazards.					
Mutagenicity	: No known significant effects or critical hazards.					
Reproductive toxicity	: No known significant effect	: No known significant effects or critical hazards.				



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## **SECTION 11: Toxicological information**

#### **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
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
	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	Algae - Pseudokirchneriella subcapitata	72 hours	OECD 201
	Chronic NOEL >1000 mg/l	Crustaceans - Daphnia magna	21 days	OECD 211
Distillates (petroleum), hydrotreated light paraffinic	Acute EC50 >100 mg/l	Algae - Pseudokirchnerella subcapitata	48 hours	OECD 201
	Acute EC50 >10000 mg/l	Daphnia - Daphnia magna		OECD 202
	Chronic NOEL 10 mg/l	Daphnia - Daphnia magna		OECD 211
	Chronic NOEL >1000 mg/l	Fish - Oncorhynchus mykiss	21 days	-
Polysulfides, di-tert-Bu	Acute EC50 >100 mg/l	Algae	72 hours	-
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide,	Acute EC50 63 mg/l Acute EC50 6.4 mg/l	Daphnia - Daphnia magna Algae - Pseudokirchneriella subcapitata	48 hours 96 hours	- OECD 201



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## **SECTION 12: Ecological information**

diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl				
	Acute EL50 91.4 mg/l	Crustaceans - Daphina Magna	48 hours	OECD 202
	Acute LL50 24 mg/l	Fish - Oncorhynchus mykiss	96 hours	OECD 203
	Chronic NOEC 1.7 mg/l	Algae - Pseudokirchneriella subcapitata	96 hours	OECD 201
	Chronic NOEL 0.12 mg/l	Crustaceans - Daphina Magna	21 days	OECD 211
methyl methacrylate	Acute EC50 110 mg/l	Algae - Selenastrum capricornutum	72 hours	-
	Acute EC50 69 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute LC50 79 mg/l	Fish	96 hours	-
	Chronic NOEC 37 mg/l	Daphnia - Daphnia magna	21 days	-

Conclusion/Summary

: Not available.

: Not available.

#### 12.2 Persistence and degradability

Product/substance	Test	Result	Dose	Inoculum
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
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	STDMETH, ASTM and USEPA	3 % - Not readily - 28 days	-	Activated sludge

#### Conclusion/Summary

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum),	-	-	Not readily
hydrotreated heavy paraffinic Distillates (petroleum), solvent-dewaxed heavy	-	-	Not readily
paraffinic Distillates (petroleum), solvent-dewaxed light	-	-	Not readily
paraffinic Polysulfides, di-tert-Bu Reaction products of	-	-	Not readily Not readily
4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines,			



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# SECTION 12: Ecological information C12-14- tert-alkyl methyl methacrylate Readily

#### **12.3 Bioaccumulative potential**

Product/substance	LogPow	BCF	Potential
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
Polysulfides, di-tert-Bu	6	-	High
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	0.3 to 7.1	-	Low
methyl methacrylate	1.38	2.97	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 in a concentration >= 0,1 %.

#### 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	<ul> <li>Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.</li> </ul>
	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 06*
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 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: Listed(integrated pollution<br/>prevention and control) -<br/>Air.Industrial emissions<br/>(integrated pollution<br/>prevention and control) -<br/>Water: Not listed

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

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

Not listed.

Inventory list Australia inventory (AIIC)

: All components are listed or exempted.



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

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

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

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

Indicates information that has changed from previously issued version.

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

Procedure used to derive the classification

Not classified.

Full text of abbreviated H statements



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## :

H225	Highly flammable liquid and vapour.	
H302 Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Full text of	classifications	

Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Irrit. 2 Flam. Liq. 2 Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B	ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B
STOT SE 3 Date of printing	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 : 2023/08/01
Date of printing Date of issue/ Date of	: 2023/08/01
revision	
Date of previous issue	No previous validation
Version	: 1

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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.