

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

### 1.1 Product identifier

**Product name** : TRAXIUM GEAR 9 FE 75W-80  
**Product code** : 090277  
**Product description** : Not available.  
**Product type** : Liquid.  
**Other means of identification** : 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'île  
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

H.S.E

### 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

**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.

See Section 11 for more detailed information on health effects and symptoms.

**2.2 Label elements****Signal word** : No signal word.**Hazard statements** :  No hazard statement.**Precautionary statements****Prevention** : Not applicable.**Response** : Not applicable.**Storage** : Not applicable.**Disposal** : Not applicable.**Supplemental label elements** : Contains methyl methacrylate. 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  $\geq 0,1$  %.

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

| Product/ingredient name  | Identifiers   | %                   | Classification  | Type |
|--|---|---------------------|---|------|
| <input checked="" type="checkbox"/> Distillates (petroleum), hydrotreated heavy paraffinic | REACH #:<br>01-2119484627-25<br>EC: 265-157-1<br>CAS: 64742-54-7<br>Index: 649-467-00-8 | $\geq 10 - \leq 25$ | Asp. Tox. 1, H304   | [1]  |
| mineral oil  | -   | $\leq 10$           | Asp. Tox. 1, H304   | [1]  |
| Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated,      | REACH #:<br>01-2119493620-38<br>EC: 931-384-6   | $< 0.92$            | Acute Tox. 4, H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317 | [1]  |

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

|  |  |      |  |         |
|--|--|------|--|---------|
| esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl methyl methacrylate | REACH #:<br>01-2119452498-28<br>EC: 201-297-1<br>CAS: 80-62-6<br>Index: 607-035-00-6 | ≤0.3 | Aquatic Chronic 2, H411<br><br>Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | [1] [2] |
|--|--|------|--|---------|

**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

[2] Substance with a workplace exposure limit

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
- Ingestion** : No specific data.

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

**SECTION 4: First aid measures**

- 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  
Silicon Dioxide  
nitrogen oxides  
phosphorus oxides  
sulfur oxides  
Hydrogen sulfide  
Mercaptans

**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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to British standard BS EN 469 will provide a basic level of protection for chemical incidents.

**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**

## SECTION 6: Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. 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. 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. 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. Dispose of via a licensed waste disposal contractor.
- 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

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

### 7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

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

#### Biological Limit Values (BLV)

No exposure indices known.



## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) 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/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

### DNELs/DMELs

| Product/substance  | Type                | Exposure             | Value                   | Population             | Effects            |          |
|--|---------------------|----------------------|-------------------------|------------------------|--------------------|----------|
| Distillates (petroleum), hydrotreated 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 Inhalation | 2.73 mg/m <sup>3</sup>  | Workers                | Systemic           |          |
|  | DNEL                | Long term Inhalation | 5.58 mg/m <sup>3</sup>  | Workers                | Local              |          |
|  | mineral oil         | DNEL                 | Long term Inhalation    | 5.58 mg/m <sup>3</sup> | Workers            | Local    |
|  |                     | DNEL                 | Long term Inhalation    | 2.73 mg/m <sup>3</sup> | Workers            | Systemic |
|  |                     | DNEL                 | Long term Oral          | 0.74 mg/kg             | General population | Systemic |
|  |                     | DNEL                 | Long term Dermal        | 0.97 mg/kg             | General population | Systemic |
|  |                     | DNEL                 | Long term Inhalation    | 1.19 mg/m <sup>3</sup> | General population | Local    |
| Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl |                     | DNEL                 | Long term Dermal        | 12.5 mg/kg             | Workers            | Systemic |
|  |                     | DNEL                 | Long term Inhalation    | 4.28 mg/m <sup>3</sup> | Workers            | Systemic |
|  |                     | DNEL                 | Long term Dermal        | 6.25 mg/kg             | General population | Systemic |
|  |                     | DNEL                 | Long term Inhalation    | 1.09 mg/m <sup>3</sup> | General population | Systemic |
|  |                     | DNEL                 | Long term Oral          | 0.25 mg/day            | General population | Systemic |
|  | DNEL                | Long term Dermal     | 0.16 mg/cm <sup>2</sup> | Workers                | Local              |          |
|  | methyl methacrylate | DNEL                 | Long term Oral          | 8.2 mg/kg bw/day       | General population | Systemic |
|  |                     | DNEL                 | Short term Inhalation   | 208 mg/m <sup>3</sup>  | General population | Local    |
|  |                     | DNEL                 | Short term Inhalation   | 416 mg/m <sup>3</sup>  | Workers            | Local    |



## SECTION 8: Exposure controls/personal protection

|  |      |                      |                         |                    |          |
|--|------|----------------------|-------------------------|--------------------|----------|
|  | 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>  | General population | Local    |
|  | DNEL | Short term Dermal    | 1.5 mg/cm <sup>2</sup>  | Workers            | Local    |
|  | DNEL | Long term Dermal     | 1.5 mg/cm <sup>2</sup>  | Workers            | 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/m <sup>3</sup> | Workers            | Systemic |

### PNECs

| Product/substance  | Compartment Detail     | Value               | Method Detail |   |
|--|------------------------|---------------------|---------------|---|
| Distillates (petroleum), hydrotreated heavy paraffinic mineral oil<br>Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl | Secondary Poisoning    | 9.33 mg/kg          | -             |   |
|  | Secondary Poisoning    | 9.33 mg/kg          | -             |   |
|  | 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          | -             |   |
|  | methyl methacrylate    | Secondary Poisoning | 10 mg/kg      | - |
|  |                        | 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

**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** : In case of contact through splashing: safety glasses with side-shields, EN 166.

#### Skin protection



## 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** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.  
Non-skid safety shoes or boots
- 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.
- 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** : Open cup: 200°C (392°F) [ASTM D 92]
- Auto-ignition temperature** : >200°C (>392°F) [ASTM E 659]
- Decomposition temperature** : Not applicable.
- pH** : Not applicable. Product is non-soluble (in water).
- Viscosity** : ynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): 54 mm<sup>2</sup>/s
- Solubility(ies)** :

**SECTION 9: Physical and chemical properties**

| Media | Result      |
|-------|-------------|
| water | Not soluble |

- Miscible with water** : No.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** : <0.013 kPa (<0.1 mm Hg) [room temperature]  
Not applicable. [50°C (122°F)]
- Relative density** : 0.855 to 0.861 [ISO 3675]
- Density** : 0.855 to 0.861 g/cm<sup>3</sup> [15°C (59°F)] [ISO 3675]
- Vapour density** : >2 [Air = 1]
- Particle characteristics**
- Median particle size** : Not applicable.

## 9.2 Other information

**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  
Silicon Dioxide  
nitrogen oxides  
phosphorus oxides  
sulfur oxides  
Hydrogen sulfide  
Mercaptans

**SECTION 11: Toxicological information**

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

Acute toxicity

**SECTION 11: Toxicological information**

| 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<br>Read across |
|   | LD50 Dermal                     | Rabbit - Male, Female | >5000 mg/kg | -        | OECD 402<br>Read across |
|   | LD50 Oral                       | Rat - Male, Female    | >5000 mg/kg | -        | OECD 401<br>Read across |
| Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl | 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                | 2201 mg/kg  | -        | -                       |
|   | LD50 Oral                       | Rat                   | 2000 mg/kg  | -        | OECD 401                |
| methyl methacrylate   | LC50 Inhalation Vapour          | Rat                   | 29.8 mg/l   | 4 hours  | -                       |
|   | LD50 Dermal                     | Rabbit                | >5 g/kg     | -        | OECD 402                |
|   | LD50 Oral                       | Rat                   | 7872 mg/kg  | -        | -                       |

**Acute toxicity estimates**

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

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

**Irritation/Corrosion**

| Product/substance   | Result          | Species | Score | Exposure | Test |
|---------------------|-----------------|---------|-------|----------|------|
| methyl methacrylate | Skin - Irritant | Rabbit  | -     | 4 hours  | -    |

**Conclusion/Summary**

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

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

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

**Sensitisation**

| Product/substance | Route of exposure | Species | Result      |
|-------------------|-------------------|---------|-------------|
|                   | skin              | Mouse   | Sensitising |

**Conclusion/Summary**

**Skin** : Based on available data, the classification criteria are not met. Contains sensitizer. May produce an allergic reaction.

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

**SECTION 11: Toxicological information****Mutagenicity****Conclusion/Summary** : Based on available data, the classification criteria are not met.**Carcinogenicity****Conclusion/Summary** : Based on available data, the classification criteria are not met.**Reproductive toxicity****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)**

| 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.

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

| Product/substance  | Result   |
|--|--|
| Distillates (petroleum), hydrotreated heavy paraffinic mineral oil | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.**Information on likely routes of exposure** : Not available.**Potential acute health effects**

- Eye 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.  
**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

- 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 effects as well as chronic effects from short and long-term exposure****Short term exposure****Potential immediate effects** : Not available.

**SECTION 11: Toxicological information****Potential delayed effects** : Not available.**Long term exposure****Potential immediate effects** : Not available.**Potential delayed effects** : Not available.**Potential chronic health effects**

Not available.

**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 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          |
|---|--|---|----------------------|---------------|
| Distillates (petroleum), hydrotreated heavy paraffinic  | Acute EC50 >100 mg/l                           | Algae - <i>Pseudokirchneriella subcapitata</i>            | 72 hours             | OECD 201      |
|   | Acute EC50 >10000 mg/l                         | Crustaceans - <i>Daphnia magna</i>                        | 48 hours             | OECD 202      |
|   | Chronic NOEL >100 mg/l                         | Algae - <i>Pseudokirchneriella subcapitata</i>            | 72 hours             | OECD 201      |
| mineral oil   | Chronic NOEL >1000 mg/l                        | Crustaceans - <i>Daphnia magna</i>                        | 21 days              | -             |
|   | Acute EC50 >100 mg/l                           | Algae - <i>Scenedesmus quadricauda</i>                    | 72 hours             | -             |
|   | Acute EC50 >10000 mg/l<br>Acute LC50 >100 mg/l | Daphnia<br>Fish - <i>Pimephales promelas</i>              | 48 hours<br>96 hours | -<br>-        |
| Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl | Chronic NOEC >10 mg/l<br>Acute EC50 6.4 mg/l   | Daphnia<br>Algae - <i>Pseudokirchneriella subcapitata</i> | 21 days<br>96 hours  | -<br>OECD 201 |
|   | Acute EL50 91.4 mg/l                           | Crustaceans - <i>Daphnia</i>                              | 48 hours             | OECD 202      |

**SECTION 12: Ecological information**

|                     |  |   |                     |          |
|---------------------|--|---|---------------------|----------|
| methyl methacrylate | Acute LL50 24 mg/l                         | <i>Magna</i><br>Fish - <i>Oncorhynchus mykiss</i> | 96 hours            | OECD 203 |
|                     | Chronic NOEC 1.7 mg/l                      | Algae -<br><i>Pseudokirchneriella subcapitata</i> | 96 hours            | OECD 201 |
|                     | Chronic NOEL 0.12 mg/l                     | Crustaceans - <i>Daphnia magna</i>                | 21 days             | OECD 211 |
|                     | Acute EC50 110 mg/l                        | Algae - <i>Selenastrum capricornutum</i>          | 72 hours            | -        |
|                     | Acute EC50 69 mg/l                         | Daphnia - <i>Daphnia magna</i>                    | 48 hours            | -        |
|                     | Acute LC50 79 mg/l<br>Chronic NOEC 37 mg/l | Fish<br>Daphnia - <i>Daphnia magna</i>            | 96 hours<br>21 days | -<br>-   |

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

| Product/substance | Test                                       | Result  | Dose   | Inoculum                             |
|-------------------|--|---|--------|--------------------------------------|
| -                 | OECD 301F<br>STDMETH,<br>ASTM and<br>USEPA | 31 % - Not readily - 28 days<br>3 % - Not readily - 28 days | -<br>- | Activated sludge<br>Activated sludge |

**Conclusion/Summary** : Not available.

| Product/substance  | Aquatic half-life | Photolysis | Biodegradability           |
|--|-------------------|------------|----------------------------|
| Distillates (petroleum),<br>hydrotreated heavy paraffinic<br>mineral oil   | -                 | -          | Not readily                |
| Reaction products of<br>4-methyl-2-pentanol and<br>diphosphorus pentasulfide,<br>propoxylated, esterified with<br>diphosphorus pentoxide,<br>and salted by amines,<br>C12-14-tert-alkyl<br>methyl methacrylate | -                 | -          | Not readily<br>Not readily |
|  | -                 | -          | Readily                    |

**12.3 Bioaccumulative potential**

| Product/substance  | LogP <sub>ow</sub> | BCF  | Potential |
|--|--------------------|------|-----------|
| Distillates (petroleum),<br>hydrotreated heavy paraffinic  | >4                 | -    | High      |
| Reaction products of<br>4-methyl-2-pentanol and<br>diphosphorus pentasulfide,<br>propoxylated, esterified with<br>diphosphorus pentoxide,<br>and salted by amines,<br>C12-14-tert-alkyl<br>methyl methacrylate | 0.3 to 7.1         | -    | Low       |
|  | 1.38               | 2.97 | Low       |

**12.4 Mobility in soil**



## SECTION 12: Ecological information

- Soil/water partition coefficient ( $K_{oc}$ )** : 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  $\geq 0,1\%$ .

### 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.

## 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** : 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      |
|--|----------------|----------------|----------------|----------------|
| <b>14.1 UN number or ID number</b>     | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| <b>14.2 UN proper shipping name</b>    | -              | -              | -              | -              |
| <b>14.3 Transport hazard class(es)</b> | -              | -              | -              | -              |
| <b>14.4 Packing group</b>              | -              | -              | -              | -              |
| <b>14.5 Environmental hazards</b>      | 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.

**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**



## SECTION 15: Regulatory information

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 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

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

**SECTION 15: Regulatory information**

**15.2 Chemical safety assessment** : Risk management measures and safety conditions of use are included in the relevant sections of the SDS

**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.

**Full text of abbreviated H statements**

|      |  |
|------|--|
| 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. |

**Full text of classifications**

|                   |   |
|-------------------|---|
| Acute Tox. 4      | ACUTE TOXICITY - Category 4                                   |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2               |
| Asp. Tox. 1       | ASPIRATION HAZARD - Category 1                                |
| Eye Irrit. 2      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2                |
| Flam. Liq. 2      | FLAMMABLE LIQUIDS - Category 2                                |
| Skin Irrit. 2     | SKIN CORROSION/IRRITATION - Category 2                        |
| Skin Sens. 1      | SKIN SENSITISATION - Category 1                               |
| Skin Sens. 1B     | SKIN SENSITISATION - Category 1B                              |
| STOT SE 3         | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

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**Notice to reader**



TotalEnergies

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SDS no. 090277  
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## SECTION 16: Other information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.