

## Section 1. Identification

**Product identifier** : TRANSTEC 5 80W-90

### Recommended use of the chemical and restrictions on use

#### Identified uses

Transmission fluids

**Supplier's details** : 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 Asia-Pacific Middle East Pte. Ltd.  
182 Cecil Street  
#27-01 Frasers Tower  
Singapore 069547  
Tel: +65 6879 2200  
ms.ap-sds@totalenergies.com

See section 16 to have the contact details of the local supplier

**Emergency telephone number** :  
Asia-Pacific: +65 3158 1074  
Middle-East: +44 1235 239671

## Section 2. Hazard identification

**Classification of the substance or mixture** :  Not classified as dangerous according to GHS

### GHS 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.

**Other hazards which do not result in classification** : Prolonged or repeated contact may dry skin and cause irritation.



## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
Distillates (petroleum), hydrotreated heavy paraffinic	≥50 - ≤75	CAS: 64742-54-7 EC: 265-157-1
Residual oils (petroleum), hydrotreated	≥25 - ≤50	CAS: 64742-57-0 EC: 265-160-8
Polysulfides, di-tert-Bu	≤3	CAS: 68937-96-2 EC: 273-103-3
Amines, C12-14-tert-alkyl	≤0.3	CAS: 68955-53-3 EC: 273-279-1
(Z)-octadec-9-enylamine	≤0.1	CAS: 112-90-3 EC: 204-015-5

**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 and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

## Section 4. First aid measures

### Description of necessary 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. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### 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.

**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.

**Indication of immediate medical attention and special treatment needed, if necessary**

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

**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.

**Specific hazards arising from the chemical**

- Hazardous thermal decomposition products** :  In a fire or if heated, a pressure increase will occur and the container may burst.  
 carbon monoxide  
carbon dioxide  
nitrogen oxides  
phosphorus oxides  
sulfur oxides  
Hydrogen sulfide  
Mercaptans

**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

### 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized 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".

**Environmental precautions** : Avoid dispersal of spilled 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).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. 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.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).  
See Section 10 for incompatible materials before handling or use.

**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.

**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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits UN



Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy paraffinic	<b>ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Inhalable fraction.
Residual oils (petroleum), hydrotreated	<b>ACGIH TLV (United States, 1/2024) [Mineral Oil, pure, highly and severely refined] A4.</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: Inhalable fraction.

**Biological exposure indices UN**

No exposure indices known.

**Occupational exposure limits Hong Kong**

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy paraffinic	<b>Labour Department, OS&amp;H Branch (Hong Kong, 4/2002) [Oil mist, mineral]</b> STEL 15 minutes: 10 mg/m <sup>3</sup> . TWA 8 hours: 5 mg/m <sup>3</sup> .
Residual oils (petroleum), hydrotreated	<b>Labour Department, OS&amp;H Branch (Hong Kong, 4/2002) [Oil mist, mineral]</b> STEL 15 minutes: 10 mg/m <sup>3</sup> . TWA 8 hours: 5 mg/m <sup>3</sup> .

**Biological exposure indices Hong Kong**

No exposure indices known.

**Occupational exposure limits India**

Product/substance	Exposure limit values
Distillates (petroleum), hydrotreated heavy paraffinic	<b>Directorate General Factory Advice Service &amp; Labour Institutes, Factories Act (India, 4/2001) [oil mist mineral]</b> STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist. TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist.
Residual oils (petroleum), hydrotreated	<b>Directorate General Factory Advice Service &amp; Labour Institutes, Factories Act (India, 4/2001) [oil mist mineral]</b> STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist. TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist.

**Biological exposure indices India**

No exposure indices known.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.
- 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)

**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.
- 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  
Fluorinated rubber  
nitrile 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.
- 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.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

### Appearance

- Physical state** : Liquid.
- Color** : Brown.
- Odor** : Characteristic.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point/freezing point** : Not available.
- Boiling point** : Not available.
- Flash point** : Open cup: 240°C (464°F) [ASTM D 92]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 0.887 [ASTM D 4052]
- Density** : 0.887 g/cm<sup>3</sup> [15°C] [ASTM D 4052]
- Solubility(ies)** :

Media	Result
water	Not soluble

- Miscible with water** : No.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.



- Decomposition temperature** :  Not available.
- Viscosity** :  Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): 143.2 mm<sup>2</sup>/s (143.2 cSt) [ASTM D 445]
- Flow time (ISO 2431)** : Not available.
- Particle characteristics**
- Median particle size** : Not applicable.

## Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** :  No specific data.
- Incompatible materials** :  Strong oxidizing agents
- Hazardous decomposition products** :  Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/substance	Result
<input checked="" type="checkbox"/> Distillates (petroleum), hydrotreated heavy paraffinic	<b>Rat - Male, Female - Oral - LD50</b> >5000 mg/kg OECD [401 Read across] <b>Rabbit - Dermal - LD50</b> >5000 mg/kg OECD [402 Read across] <b>Rat - Inhalation - LC50 Dusts and mists</b> >5 mg/l [4 hours] OECD [403 Read across]
Residual oils (petroleum), hydrotreated	<b>Rat - Oral - LD50</b> >5000 mg/kg OECD [420] <b>Rabbit - Dermal - LD50</b> >5000 mg/kg OECD [402] <b>Rat - Inhalation - LC50 Dusts and mists</b> >5.53 mg/l [4 hours] OECD [403]
Polysulfides, di-tert-Bu	<b>Rat - Oral - LD50</b> >2000 mg/kg OECD [401] <b>Rabbit - Dermal - LD50</b> >2000 mg/kg OECD [402]



Amines, C12-14-tert-alkyl	<p><b>Rat - Dermal - LD50</b> 251 mg/kg <u>Toxic effects:</u> Behavioral - Convulsions or effect on seizure threshold Skin After topical exposure - Primary irritation</p> <p><b>Rat - Oral - LD50</b> 320 mg/kg <u>Toxic effects:</u> Gastrointestinal - Other changes</p> <p><b>Rat - Oral - LD50</b> 612 mg/kg</p> <p><b>Rabbit - Dermal - LD50</b> 251 mg/kg</p> <p><b>Rat - Inhalation - LC50 Gas.</b> 157 ppm [4 hours] <u>Toxic effects:</u> Behavioral - Tremor Lung, Thorax, or Respiration - Other changes Gastrointestinal - Other changes</p> <p><b>Rat - Inhalation - LC50 Vapor</b> 1.75 mg/l [4 hours]</p>
(Z)-octadec-9-enylamine	<p><b>Rat - Dermal - LD50</b> &gt;2000 mg/kg</p> <p><b>Rat - Male, Female - Oral - LD50</b> 1689 mg/kg OECD [401]</p>

**Acute toxicity estimates**

Product/substance	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Amines, C12-14-tert-alkyl (Z)-octadec-9-enylamine	320 1689	251 2500	157 N/A	1.75 N/A	N/A 5.1

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

**Skin corrosion/irritation**

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

**Serious eye damage/eye irritation**

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

**Respiratory corrosion/irritation**

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

**Respiratory or skin sensitization**

**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.

**Germ cell mutagenicity**

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

**Carcinogenicity**



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

### Reproductive toxicity

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

### Specific target organ toxicity (single exposure)

Name	Result
(Z)-octadec-9-enylamine	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

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

### Specific target organ toxicity (repeated exposure)

Name	Result
(Z)-octadec-9-enylamine	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (gastrointestinal tract, immune system, liver) - Category 2

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

### Aspiration hazard

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

### Information on the 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 and also chronic effects from short and long term exposure

#### Potential chronic health effects



Product/substance	Result
(Z)-octadec-9-enylamine	<p><b>Sub-acute - Rat - Oral - NOEL</b>            OECD [Repeated Dose 28-day Oral Toxicity Study in Rodents]            3.25 mg/kg  <u>Toxic effects:</u> Mortality Liver - Other changes Gastrointestinal - Other changes Endocrine - Changes in thymus weight</p>

- General** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- 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.

## Section 12. Ecological information

The supplier of one of the components contained within this formulation has indicated that they have data, which confirms that at the concentration used, no aquatic environmental hazard classification is required

### Toxicity

Product/substance	Result
Distillates (petroleum), hydrotreated heavy paraffinic	<p><b>Acute - LL50</b>            OECD [202]            Crustaceans - <i>Daphnia magna</i>            &gt;10000 mg/l [48 hours]  <u>Effect:</u> Mobility</p> <p><b>Acute - LL50</b>            OECD [201]            Algae - <i>Pseudokirchneriella subcapitata</i>            &gt;100 mg/l [72 hours]  <u>Effect:</u> (growth rate)</p> <p><b>Chronic - NOEL</b>            Fish - <i>Oncorhynchus mykiss</i>            &gt;1000 mg/l [21 days]  <u>Effect:</u> Mortality</p> <p><b>Chronic - NOEL</b>            Crustaceans - <i>Daphnia magna</i>            10 mg/l [21 days]  <u>Effect:</u> Reproduction</p> <p><b>Chronic - NOEL</b>            OECD [201]            Algae - <i>Pseudokirchneriella subcapitata</i>            &gt;100 mg/l [72 hours]  <u>Effect:</u> (growth rate)</p>
Residual oils (petroleum), hydrotreated	<p><b>Acute - NOEL - Fresh water</b>            OECD [201]            Algae            ≥100 mg/l [72 hours]  <u>Effect:</u> (growth rate)</p> <p><b>Acute - EL50</b>            OECD [202]            Daphnia - <i>Daphnia magna</i>            &gt;10000 mg/l [48 hours]</p> <p><b>Chronic - NOEL</b></p>



	<p>OECD [211] Daphnia - <i>Daphnia magna</i> 10 mg/l [21 days] <b>Acute - LL50 - Fresh water</b> OECD [203] Fish - <i>Pimephales promelas</i> &gt;100 mg/l [96 hours] <b>Acute - NOEL - Fresh water</b> OECD [203] Fish - <i>Pimephales promelas</i> ≥100 mg/l [96 hours] <b>Chronic - NOELR - Fresh water</b> QSAR PETROTOX Fish ≥1000 mg/l [14 days] <b>Acute - NOEL</b> OECD [202] Daphnia - <i>Daphnia magna</i> ≥10000 mg/l [48 hours] <b>Acute - LL50 - Fresh water</b> OECD [202] Daphnia &gt;10000 mg/l [96 hours] <b>Acute - NOEL - Fresh water</b> OECD [202] Daphnia ≥10000 mg/l [96 hours] <b>Acute - NOEL - Fresh water</b> EPA Micro-organism &gt;1.93 mg/l [10 minutes] <b>Acute - LC50</b> Fish 250 mg/l [96 hours] <b>Acute - EC50</b> OECD [202] Daphnia - <i>Daphnia magna</i> 0.255 mg/l [48 hours] <b>Acute - EC50</b> Algae - <i>Pseudokirchneriella subcapitata</i> &gt;1.89 mg/l [72 hours] <b>Chronic - EC10</b> Algae - <i>Pseudokirchneriella subcapitata</i> 0.696 mg/l [72 hours] <b>Acute - EC50</b> Algae - <i>Selenastrum capricornutum</i> 0.44 mg/l [72 hours] <b>Acute - LC50</b> Fish 1.3 mg/l [96 hours] <b>Acute - EC50</b> Daphnia - <i>Daphnia magna</i> 2.5 mg/l [48 hours] <b>Chronic - NOEC</b> Fish - <i>Oncorhynchus mykiss</i> 0.078 to 1.4 mg/l [96 days] <b>Acute - EC50</b></p>
Polysulfides, di-tert-Bu	
Amines, C12-14-tert-alkyl	
(Z)-octadec-9-enylamine	



Algae  
0.03 mg/l [96 hours]  
**Acute - EC50**  
Daphnia - *Daphnia magna*  
0.011 mg/l [48 hours]

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

### Persistence and degradability

Product/substance	Result
Distillates (petroleum), hydrotreated heavy paraffinic Polysulfides, di-tert-Bu	OECD 301F 31% [28 days] - Not readily OECD [Ready Biodegradability - CO <sub>2</sub> Evolution Test] 13% [28 days]

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Distillates (petroleum), hydrotreated heavy paraffinic	-	-	Not readily
Residual oils (petroleum), hydrotreated	-	-	Not readily
Polysulfides, di-tert-Bu	-	-	Not readily
(Z)-octadec-9-enylamine	-	-	Readily

### Bioaccumulative potential

Product/substance	LogK <sub>ow</sub>	BCF	Potential
Polysulfides, di-tert-Bu	5.6	-	High
Amines, C12-14-tert-alkyl	2.9	-	Low
(Z)-octadec-9-enylamine	-	173	Low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

**Section 14. Transport information**

	ADR	IMDG	ICAO/IATA
<b>UN/ID No</b>	UN3082	UN3082	UN3082
<b>UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polysulfides, di-tert-Bu)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polysulfides, di-tert-Bu)	Environmentally hazardous substance, liquid, n.o.s. (Polysulfides, di-tert-Bu)
<b>Transport hazard class(es)</b>	9 	9 	9 
<b>Packing group</b>	III	III	III
<b>Environmental hazards</b>	Yes.	Yes.	Yes.

**Additional information**

**UN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**Special provisions** 274, 331, 335, 375

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**Emergency schedules** F-A, S-F

**Special provisions** 274, 335, 969

**ICAO/IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Quantity limitation** Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.

**Special provisions** A97, A158, A197, A215

**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.

**Transport in bulk according to IMO instruments** : Not available.

**Section 15. Regulatory information****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 (AIC)</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Canada inventory (DSL/NDSL)</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>China inventory (IECSC)</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Europe inventory (EC)</b>	: At least one component is not listed.
<b>Japan inventory</b>	: <input checked="" type="checkbox"/> <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : Not determined.
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Philippines inventory (PICCS)</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Korea inventory (KECI)</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Taiwan Chemical Substances Inventory (TCSI)</b>	: <input checked="" type="checkbox"/> All components are listed or exempted.
<b>Thailand inventory</b>	: At least one component is not listed.
<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 16. Other information

**History**

**Date of revision** : 2025/08/26

**previous revision date** : 2023/10/13

**Version** : 3

**Key to abbreviations**

: ACGIH = American Conference of Governmental Industrial Hygienists  
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 EC50 = Half maximal effective concentration  
 EL50 = median Effective Loading  
 IATA = International Air Transport Association  
 IC50 = Half maximal inhibitory concentration  
 IDHL = Immediately dangerous to life or health  
 IMDG = International Maritime Dangerous Goods  
 LC50 = Median lethal concentration  
 LD50 = Median lethal dose  
 LL50 = median Lethal Loading  
 LogKow = logarithm of the octanol/water partition coefficient  
 N/A = Not available  
 NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level  
 NOEC No Observed Effect Concentration  
 NOEL = No Observed Effect Level  
 NOELR = No observed Effect Loading Rate  
 OECD = Organisation for Economic Co-operation and Development  
 OEL = Occupational Exposure Limit  
 POP = Persistent Organic Pollutants  
 QSAR = Quantitative Structure–Activity Relationship  
 REL = Recommended Exposure Limit  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 STEL = Short Term Exposure Limit  
 TLV = Threshold Limit Value  
 TWA = Time Weight Average  
 VOC = Volatile Organic Compound  
 UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material

**Procedure used to derive the classification**

Classification	Justification
Not classified.	

**Additional details on the supplier of the product**

SAUDI TOTAL PETROLEUM PRODUCTS CO. LTD 704, Zahran Business Center Sultan street - Tower A , 7th floor PO Box 4861, Jeddah 21463 K.S.A Tel: +966 12 22 56 300 Fax: +966 12 22 56 311	TotalEnergies Marketing (FIJI) Pte Ltd Rona Street, Walu Bay GPO Box 168 Suva - Fiji Islands Tel: +679 3313 933 Fax: +679 330 2279	TotalEnergies Marketing (Cambodia) Co., Ltd. ANINA Building 6th Floor, No 240, St. 271, B.P600, 12351 Phnom Penh, Cambodia Tel: +855 23 218 630 Fax: +855 23 217 662	TOTAL JORDAN Reem Center, 4th Floor 244 Arar Street, Wadi Saqra P.O. Box 831285, Amman 11183 Jordan Tel: +962 6 500 80 05 Fax: +962 6 500 80 08
TotalEnergies Marketing Lebanon SAL Rue Achrafieh, Imm. Tilal Bloc B, 2ème Etage B.P. 11-3636 Beyrouth - Liban Tel : + 961 1 21 22 50 Fax: + 961 1 21 21 33	TotalEnergies Marketing Middle East FZE Office 3901, 39th Floor, Ubora Commerical Tower, Business Bay, Al Abraj Street, PO Box 14871 Dubai, United Arab Emirates	TotalEnergies Marketing Asia-Pacific Middle East Pte Ltd McGregor Street Lot.19 Sec.8 Level 7, Deloitte Haus PO BOX 1784, Port Moresby, NCD Papua New Guinea Tel: +675 7999 6001	TotalEnergies Marketing India Private Limited 3rd Floor, The Leela Galleria, Andheri - Kurla Road, Andheri (East), Mumbai Maharashtra State, INDIA 400059 Tel: +91 22 6723 2500 Fax: +91 22 6723 2600
TotalEnergies Marketing Pacifique Immeuble Le Centre 30 route de la Baie des Dames, Imm. Le Centre, Ducos BP 717, 98845 Noumea Cedex Tel: +687 27 90 50 Fax: +687 27 29 90	TotalEnergies Marketing Polynésie Fare Ute Papeete Postal address: B.P. 64, 98713 Papeete Tel: +689 40 48 50 50 Fax: +689 40 48 05 03		

**References** : Not available.

Indicates information that has changed from previously issued version.

**Notice to reader**

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.