

previous revision date : No previous validation

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

#### 1.1 Product identifier

Product name : QUARTZ MOPAR FPW/09 5W-40

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

Identified uses
Engine oil

#### 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 Belgium  
Anspachlaan 1, bus 2 / Boulevard anspach 1, boîte 2  
1000 Brussel/Bruxelles – België/Belgique  
Tél: +32 (0)22 889 933  
Fax: +32 (0)22 883 260  
rm.be-reach-belgium-msds@totalenergies.com

#### Contact

H.S.E

#### 1.4 Emergency telephone number

##### Supplier

Telephone number : National advisory body/Poison Center : +32 70 245 245  
Supplier (info product): +44 1235239670  
SOS TotalEnergies Marketing Belgium (transport): +32 78 15 51 51

### 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 Regulation (EC) 1272/2008 as amended.

For more details about adverse physical, human health and environmental effects, see sections 9 to 12.

#### 2.2 Label elements

Signal word : No signal word.



<b>Hazard statements</b>	: No hazard statement.
<b>Precautionary statements</b>	
<b>Prevention</b>	: Not applicable.
<b>Response</b>	: Not applicable.
<b>Storage</b>	: Not applicable.
<b>Disposal</b>	: Not applicable.
<b>Supplemental label elements</b>	: Contains C14-16-18 Alkyl phenol. May produce an allergic reaction. Safety data sheet available on request.
<b>Labelling element REACH Annex XVII</b>	: 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 spilled product.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

Product/substance	Identifiers	% (w/w)	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	$\geq 25 - \leq 50$	Not classified.	-	[2]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	$\geq 25 - \leq 50$	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01-2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	$\geq 10 - \leq 25$	Asp. Tox. 1, H304	-	[1] [2]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	REACH #: 01-2119474878-16 EC: 276-737-9 CAS: 72623-86-0 Index: 649-482-00-X	$\leq 3$	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), solvent-dewaxed heavy	REACH #: 01-2119471299-27	$\leq 3$	Asp. Tox. 1, H304	-	[1] [2]



paraffinic	EC: 265-169-7 CAS: 64742-65-0 Index: 649-474-00-6				
Distillates (petroleum), solvent-dewaxed light paraffinic	REACH #: 01-2119480132-48 EC: 265-159-2 CAS: 64742-56-9 Index: 649-469-00-9	≤3	Asp. Tox. 1, H304	-	[1] [2]
C14-16-18 Alkyl phenol	REACH #: 01-2119498288-19 EC: 931-468-2	≤3	Skin Sens. 1B, H317 STOT RE 2, H373	-	[1]
Paraffin oils (petroleum), catalytic dewaxed heavy	REACH #: 01-2119487080-42 EC: 265-174-4 CAS: 64742-70-7	≤3	Asp. Tox. 1, H304	-	[1] [2]
			<b>See Section 16 for the full text of the H statements declared above.</b>		

**Annex VIIA - Labelling for Contents** : Not applicable.

**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 recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. 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

- Eye contact** : No specific data.
- Inhalation** : No specific data.



- Skin contact** :  
irritation  
dryness  
cracking
- Ingestion** : No specific data.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous combustion products** : carbon monoxide  
carbon dioxide  
phosphorus oxides  
sulfur oxides  
Hydrogen sulfide  
Mercaptans  
Zinc oxides

### 5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard 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 spilled material. 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".

- 6.2 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).



## 6.3 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.

- 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

### 7.1 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.

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

### 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
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<b>Limit values (Belgium, 12/2023) [Olie]</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<b>Limit values (Belgium, 12/2023) [Olie]</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist.
Distillates (petroleum), hydrotreated heavy paraffinic	<b>Limit values (Belgium, 12/2023) [Olie]</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist.
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	<b>Limit values (Belgium, 12/2023) [Olie]</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist.
Distillates (petroleum), solvent-dewaxed heavy	<b>Limit values (Belgium, 12/2023) [Olie]</b>



paraffinic	TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist.
Distillates (petroleum), solvent-dewaxed light paraffinic	<b>Limit values (Belgium, 12/2023) [Olie]</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist.
Paraffin oils (petroleum), catalytic dewaxed heavy	<b>Limit values (Belgium, 12/2023) [Olie]</b> TWA 8 hours: 5 mg/m <sup>3</sup> . Form: mist. STEL 15 minutes: 10 mg/m <sup>3</sup> . Form: mist.

### Biological Limit Values (BLV)

No exposure indices known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following:  
 European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard 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	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<b>DNEL - General population - Long term - Oral</b> 0.74 mg/kg bw/day <u>Effects</u> : Local
	<b>DNEL - General population - Long term - Oral</b> 0.74 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 0.97 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b> 1.19 mg/m <sup>3</sup> <u>Effects</u> : Local
	<b>DNEL - Workers - Long term - Inhalation</b> 2.73 mg/m <sup>3</sup> <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Inhalation</b> 5.58 mg/m <sup>3</sup> <u>Effects</u> : Local
Distillates (petroleum), hydrotreated heavy paraffinic	<b>DNEL - General population - Long term - Oral</b> 0.74 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - Workers - Long term - Dermal</b> 0.97 mg/kg bw/day <u>Effects</u> : Systemic
	<b>DNEL - General population - Long term - Inhalation</b>



Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

1.19 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Long term - Inhalation**

2.73 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

5.58 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Long term - Inhalation**

5.4 mg/m<sup>3</sup>  
Effects: Local

**DNEL - General population - Long term - Inhalation**

1.2 mg/m<sup>3</sup>  
Effects: Local

**DNEL - General population - Long term - Oral**

0.74 mg/kg bw/day  
Effects: Systemic

**DNEL - Workers - Long term - Dermal**

0.97 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**

1.19 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Long term - Inhalation**

2.73 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

5.58 mg/m<sup>3</sup>  
Effects: Local

Distillates (petroleum), solvent-dewaxed heavy paraffinic

**DNEL - General population - Long term - Oral**

0.74 mg/kg bw/day  
Effects: Systemic

**DNEL - Workers - Long term - Dermal**

0.97 mg/kg bw/day  
Effects: Systemic

**DNEL - General population - Long term - Inhalation**

1.19 mg/m<sup>3</sup>  
Effects: Local

**DNEL - Workers - Long term - Inhalation**

2.73 mg/m<sup>3</sup>  
Effects: Systemic

**DNEL - Workers - Long term - Inhalation**

5.58 mg/m<sup>3</sup>  
Effects: Local

Distillates (petroleum), solvent-dewaxed light paraffinic

**DNEL - General population - Long term - Oral**

0.74 mg/kg bw/day



	<p><u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Dermal</b> 0.97 mg/kg bw/day <u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Inhalation</b> 1.19 mg/m<sup>3</sup> <u>Effects</u>: Local</p> <p><b>DNEL - Workers - Long term - Inhalation</b> 2.73 mg/m<sup>3</sup> <u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Inhalation</b> 5.58 mg/m<sup>3</sup> <u>Effects</u>: Local</p>
C14-16-18 Alkyl phenol	<p><b>DNEL - Workers - Long term - Inhalation</b> 1.17 mg/m<sup>3</sup> <u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Dermal</b> 0.3 mg/kg bw/day <u>Effects</u>: Systemic</p>
Paraffin oils (petroleum), catalytic dewaxed heavy	<p><b>DNEL - General population - Long term - Oral</b> 0.74 mg/kg bw/day <u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Dermal</b> 0.97 mg/kg bw/day <u>Effects</u>: Systemic</p> <p><b>DNEL - General population - Long term - Inhalation</b> 1.19 mg/m<sup>3</sup> <u>Effects</u>: Local</p> <p><b>DNEL - Workers - Long term - Inhalation</b> 2.73 mg/m<sup>3</sup> <u>Effects</u>: Systemic</p> <p><b>DNEL - Workers - Long term - Inhalation</b> 5.58 mg/m<sup>3</sup> <u>Effects</u>: Local</p>

### PNECs

Product/substance	Result
Distillates (petroleum), hydrotreated heavy paraffinic	<b>Secondary Poisoning</b> 9.33 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<b>Secondary Poisoning</b> 9.33 mg/kg
C14-16-18 Alkyl phenol	<b>Fresh water</b> 0.1 mg/l
	<b>Marine water</b> 0.01 mg/l



**Fresh water sediment**

4266.16 mg/kg dwt

**Marine water sediment**

426.62 mg/kg dwt

**Soil**

852.58 mg/kg dwt

**Sewage Treatment Plant**

100 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

**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** : Wear work clothing with long sleeves.  
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. [limpid]
- Color : Yellow.
- Odor : Characteristic.
- pH : Not applicable. Product is non-soluble (in water).
- Melting point/freezing point : Technically not possible to measure
- Initial boiling point and boiling range : >316°C [ISO 3405]
- Flash point : Open cup: 240°C [ASTM D 92]
- Flammability : Non-flammable.
- Lower and upper explosion limit : Lower: 0.9%  
Upper: 7%
- Vapor pressure : <0.01 kPa [room temperature]  
Not applicable. [50°C]
- Vapor density : >2 [Air = 1]
- Relative density : 0.838 to 0.858 [ISO 12185]
- Density : 0.838 to 0.858 g/cm³ [15°C] [ISO 12185]
- Solubility(ies) :

Media	Result
water	Not soluble

- Miscible with water : No.
- Partition coefficient: n-octanol/ water : Not applicable.
- Auto-ignition temperature : >240°C [ASTM E 659]
- Decomposition temperature : Not applicable.
- Viscosity : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): 83.9 mm²/s [ISO 3104]

#### Particle characteristics

- Median particle size : Not applicable.

### 9.2 Other information

No other relevant physical and chemical parameters for the safe use of the product

## 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** : No specific data.

**10.5 Incompatible materials** : Strong oxidizing agents

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Product/substance	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<p><b>Rat - Male, Female - Oral - LD50</b> &gt;5000 mg/kg OECD 401 Read across</p> <p><b>Rabbit - Male, Female - Dermal - LD50</b> &gt;5000 mg/kg OECD 402 Read across</p> <p><b>Rat - Inhalation - LC50 Dusts and mists</b> 5.1 mg/l [4 hours] OECD 403</p>
Distillates (petroleum), hydrotreated heavy paraffinic	<p><b>Rat - Male, Female - Oral - LD50</b> &gt;5000 mg/kg OECD 401 Read across</p> <p><b>Rabbit - Male, Female - Dermal - LD50</b> &gt;5000 mg/kg OECD 402 Read across</p> <p><b>Rat - Male, Female - Inhalation - LC50 Dusts and mists</b> &gt;5 mg/l [4 hours] OECD 403 Read across</p>
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	<p><b>Rat - Oral - LD50</b> &gt;5000 mg/kg OECD 401</p> <p><b>Rabbit - Dermal - LD50</b> &gt;5000 mg/kg OECD 402</p> <p><b>Rat - Inhalation - LC50 Dusts and mists</b> 5.53 mg/l [4 hours] OECD 403</p>
Distillates (petroleum), solvent-dewaxed heavy paraffinic	<p><b>Rabbit - Dermal - LD50</b> &gt;5000 mg/kg OECD 402</p> <p><b>Rat - Oral - LD50</b> &gt;5000 mg/kg OECD 420</p>



Distillates (petroleum), solvent-dewaxed light paraffinic	<p><b>Rat - Inhalation - LC50 Dusts and mists</b> &gt;5 mg/l [4 hours] OECD 403</p> <p><b>Rat - Oral - LD50</b> &gt;5000 mg/kg OECD 401</p> <p><b>Rabbit - Dermal - LD50</b> &gt;5000 mg/kg OECD 402</p>
C14-16-18 Alkyl phenol	<p><b>Rat - Inhalation - LC50 Dusts and mists</b> &gt;5 mg/l [4 hours] OECD 403</p> <p><b>Rat - Oral - LD50</b> 2000 mg/kg</p> <p><b>Rat - Dermal - LD50</b> 2000 mg/kg</p>
Paraffin oils (petroleum), catalytic dewaxed heavy	<p><b>Rat - Oral - LD50</b> &gt;5000 mg/kg</p> <p><b>Rabbit - Dermal - LD50</b> &gt;5000 mg/kg</p> <p><b>Rat - Inhalation - LC50 Vapor</b> 80.4 mg/l [1 hours]</p> <p><b>Rat - Inhalation - LC50 Vapor</b> 20.1 mg/l [4 hours]</p> <p><b>Rat - Inhalation - LC50 Dusts and mists</b> 5.1 mg/l [4 hours]</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)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.1
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	N/A	N/A	N/A	N/A	5.53
Paraffin oils (petroleum), catalytic dewaxed heavy	N/A	N/A	N/A	20.1	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**

The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, acute dermal toxicity is not required. 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)**

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

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

Product/substance	Result
C14-16-18 Alkyl phenol	STOT RE 2, H373

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** :  
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**

- General** : No known significant effects or critical hazards.  
**Carcinogenicity** : During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.



# QUARTZ MOPAR FPW/09 5W-40

TotalEnergies

SDS # : C3O0C2K74

**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

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/substance	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	<b>Acute - LL50</b> Fish - <i>Pimephales promelas</i> OECD [203] >100 mg/l [96 hours]
	<b>Acute - EL50</b> Crustaceans - <i>Daphnia magna</i> OECD [202] >10000 mg/l [48 hours] <u>Effect</u> : Mobility
	<b>Acute - EL50</b> Algae - <i>Pseudokirchneriella subcapitata</i> OECD [201] >100 mg/l [48 hours] <u>Effect</u> : (growth rate)
	<b>Chronic - NOEL</b> Crustaceans - <i>Daphnia magna</i> OECD [211] >1000 mg/l [21 days] <u>Effect</u> : Reproduction
Distillates (petroleum), hydrotreated heavy paraffinic	<b>Chronic - NOEL</b> Algae - <i>Pseudokirchneriella subcapitata</i> OECD [201] >100 mg/l [72 hours] <u>Effect</u> : (growth rate)
	<b>Acute - EC50</b> Crustaceans - <i>Daphnia magna</i> OECD [202] >10000 mg/l [48 hours] <u>Effect</u> : Mobility
	<b>Acute - EC50</b> Algae - <i>Pseudokirchneriella subcapitata</i> OECD [201] >100 mg/l [72 hours] <u>Effect</u> : (growth rate)
	<b>Chronic - NOEL</b> Crustaceans - <i>Daphnia magna</i>



Lubricating oils (petroleum), C15-30,  
hydrotreated neutral oil-based

>1000 mg/l [21 days]  
Effect: Reproduction

**Chronic - NOEL**

Algae - *Pseudokirchneriella subcapitata*  
OECD [201]  
>100 mg/l [72 hours]  
Effect: (growth rate)

**Acute - LL50**

Fish - *Pimephales promelas*  
OECD 203  
>1000 mg/l [96 hours]

**Acute - EL50**

Crustaceans - *Daphnia magna*  
OECD [202]  
>10000 mg/l [48 hours]  
Effect: Mobility

**Acute - EL50**

Algae - *Pseudokircheriella subcapitata*  
OECD 201  
>100 mg/l [72 hours]  
Effect: (growth rate)

**Chronic - NOEL**

Crustaceans - *Daphnia magna*  
OECD 211  
>1000 mg/l [21 days]  
Effect: Reproduction

**Chronic - NOEL**

Algae - *Pseudokircheriella subcapitata*  
OECD 201  
>100 mg/l [72 hours]  
Effect: (growth rate)

Distillates (petroleum), solvent-dewaxed  
heavy paraffinic

**Acute - LL50**

Fish - *Oncorhynchus mykiss*  
OECD 203  
>1000 mg/l [96 hours]

**Acute - EL50**

Crustaceans - *Daphnia magna*  
OECD [202]  
>10000 mg/l [48 hours]  
Effect: Mobility

**Chronic - NOEL**

Crustaceans - *Daphnia magna*  
OECD [211]  
>1000 mg/l [21 days]  
Effect: Reproduction

Distillates (petroleum), solvent-dewaxed light  
paraffinic

**Acute - EL50**

Fish - *Pimephales promelas*  
OECD [203]  
≥100 mg/l [96 hours]



	<p><b>Acute - EL50</b> Crustaceans - <i>Daphnia magna</i> OECD 202 10000 mg/l [48 hours] Effect: Mobility</p> <p><b>Acute - EL50</b> Algae - <i>Pseudokirchneriella subcapitata</i> OECD 201 &gt;100 mg/l [72 hours] Effect: (growth rate)</p> <p><b>Chronic - NOEL</b> Crustaceans - <i>Daphnia magna</i> OECD [211] &gt;1000 mg/l [21 days] Effect: Reproduction</p> <p><b>Chronic - NOEL</b> Algae - <i>Pseudokirchneriella subcapitata</i> OECD [201] &gt;100 mg/l [72 hours] Effect: (growth rate)</p>
C14-16-18 Alkyl phenol	<p><b>Acute - EC50</b> Daphnia - <i>Daphnia magna</i> OECD [202] &gt;100 mg/l [48 hours]</p>
Paraffin oils (petroleum), catalytic dewaxed heavy	<p><b>Acute - NOEL</b> Algae - <i>Pseudokirchneriella subcapitata</i> 101 mg/l [72 hours]</p> <p><b>Acute - EC50</b> Daphnia 10000 mg/l [48 hours]</p>

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

## 12.2 Persistence and degradability

Product/substance	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301F 31% [28 days] - Not readily
Distillates (petroleum), hydrotreated heavy paraffinic	OECD 301F 31% [28 days] - Not readily
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	OECD 301F 31% [28 days] - Not readily
Distillates (petroleum), solvent-dewaxed heavy paraffinic	OECD 301F 31% [28 days] - Not readily
Distillates (petroleum), solvent-dewaxed light paraffinic	OECD 301F 31% [28 days] - Not readily

Product/substance	Aquatic half-life	Photolysis	Biodegradability



# QUARTZ MOPAR FPW/09 5W-40

TotalEnergies

SDS # : C3O0C2K74

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	-	-	Not readily
Distillates (petroleum), hydrotreated heavy paraffinic	-	-	Not readily
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	-	-	Not readily
Distillates (petroleum), solvent-dewaxed heavy paraffinic	-	-	Not readily
Distillates (petroleum), solvent-dewaxed light paraffinic	-	-	Not readily
Paraffin oils (petroleum), catalytic dewaxed heavy	-	-	Not readily

## 12.3 Bioaccumulative potential

Product/substance	LogK <sub>ow</sub>	BCF	Potential
Distillates (petroleum), hydrotreated heavy paraffinic	>4	-	High
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	6.1	-	High
Distillates (petroleum), solvent-dewaxed heavy paraffinic	9.2	260	Low
Distillates (petroleum), solvent-dewaxed light paraffinic	3.1	-	Low

## 12.4 Mobility in soil

### Soil/Water partition coefficient

Not available.

### Results of PMT and vPvM assessment

Product/substance	PMT	P	M	T	vPvM	vP	vM
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed light paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
C14-16-18 Alkyl phenol	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Paraffin oils (petroleum),	No	N/A	N/A	No	N/A	N/A	N/A



# QUARTZ MOPAR FPW/09 5W-40

TotalEnergies

SDS # : C3O0C2K74

catalytic dewaxed heavy							
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**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

### Regulation (EC) No. 1272/2008 [CLP]

Product/substance	PBT	P	B	T	vPvB	vP	vB
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	No	N/A	N/A	No	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed heavy paraffinic	No	N/A	No	No	No	N/A	No
Distillates (petroleum), solvent-dewaxed light paraffinic	No	N/A	N/A	No	N/A	N/A	N/A
C14-16-18 Alkyl phenol	N/A	N/A	N/A	Yes	N/A	N/A	N/A
Paraffin oils (petroleum), catalytic dewaxed heavy	No	N/A	N/A	No	N/A	N/A	N/A

**Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP]** : The product does not meet the criteria to be considered as a PBT or vPvB.

## 12.6 Endocrine disrupting properties

The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

### Product

**Methods of disposal** : 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. Should not be released into the environment.

**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 minimized 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 spilled 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**  
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Labeling** : Not applicable.

**Other EU regulations**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Industrial emissions (integrated pollution prevention and control) - Air** : Not listed



**Industrial emissions (integrated pollution prevention and control) - Water** : Not listed

**Explosive precursors** : Not applicable.

**Ozone depleting substances (EU 2024/590)**

Not listed.

**Prior Informed Consent (PIC) (649/2012/EU)**

Not listed.

**Persistent Organic Pollutants**

Not listed.

**Detergent** : Detergents - Regulation (EC) No 907/2006

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**National regulations**

**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 (AIIIC)**

: All components are listed or exempted.

**Canada inventory (DSL/NDSL)**

: All components are listed or exempted.

**China inventory (IECSC)**

: All components are listed or exempted.

**Europe inventory (EC)**

: All components are listed or exempted.

**Japan inventory**

: **Japan inventory (CSCL)**: All components are listed or exempted.

**Japan inventory (ISHL)**: Not determined.

**New Zealand Inventory of Chemicals (NZIoC)**

: All components are listed or exempted.

**Philippines inventory (PICCS)**

: All components are listed or exempted.

**Korea inventory (KECI)**

: All components are listed or exempted.

**Taiwan Chemical Substances Inventory (TCSI)**

: All components are listed or exempted.

**Thailand inventory**

: Not determined.



Turkey inventory	: Not determined.
United States inventory (TSCA 8b)	: 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 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

: 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  
B = Bioaccumulative  
BCF = Bioconcentration Factor  
DNEL = Derived No Effect Level  
DMEL = Derived Minimal Effect Level  
DMSO = Dimethyl Sulfoxide  
EC50 = Half maximal effective concentration  
EL50 = median Effective Loading  
EUH statement = CLP-specific Hazard statement  
HSE = Health, Safety and Environment  
IATA = International Air Transport Association  
IC50 = Half maximal inhibitory concentration  
IDHL = Immediately dangerous to life or health  
IMDG = International Maritime Dangerous Goods  
IMO = International Maritime Organization  
LC50 = Median lethal concentration  
LD50 = Median lethal dose  
LL50 = median Lethal Loading  
LogKow = logarithm of the octanol/water partition coefficient  
M = Mobile  
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  
P = Persistent  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
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  
SGG = Segregation Group  
STEL = Short Term Exposure Limit  
T = Toxic  
TLV = Threshold Limit Value  
TWA = Time Weight Average

**SECTION 16: Other information**

vB = Very Bioaccumulative  
vM = Very Mobile  
VOC = Volatile Organic Compound  
vP = Very Persistent  
vPvB = Very Persistent and Very Bioaccumulative  
vPvM = Very Persistent and Very Mobile  
UFI = Unique Formula Identifier  
UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material

**Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Not classified.

**Full text of abbreviated H statements**

H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.

**Full text of classifications [CLP/GHS]**

Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

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

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**Date of revision** : 8/12/2025  
**Date of previous issue** : No previous validation  
**Version** : 1

**Notice to reader**



**TotalEnergies**

# QUARTZ MOPAR FPW/09 5W-40

SDS # : C300C2K74

## 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.