

# SAFETY DATA SHEET **CARTER EP 460**

**SDS#:** 083022

# **Section 1. Identification**

**Product identifier** : CARTER EP 460

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

**Identified uses** 

Industrial gear oil

Supplier's details

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 (with hours of

operation)

Asia-Pacific: +65 3158 1074

## Section 2. Hazards identification

Classification of the substance or mixture : Not classified.

#### GHS label elements, including precautionary statements

Signal word : No signal word.

: No known significant effects or critical hazards. **Hazard statements** 

**Precautionary statements** 

**Prevention** : Not applicable. Response : Not applicable. : Not applicable. **Storage** : Not applicable. **Disposal** 

result in classification

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

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
<b>2</b> ,6-di-tert-butylphenol	≤0.3	128-39-2

**Additional information** : Mineral oil of petroleum origin Product containing mineral oil with less than 3%

DMSO extract as measured by IP 346

Date of revision : 2023/01/16 **ENGLISH** Version: 1.01 1/11 Singapore



otalEnergies sps #: 083022

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.

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

Chemical formula : Not applicable.

## 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. 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.

Ingestion : ₩ash 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.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.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)

Date of revision : 2023/01/16 Singapore ENGLISH Version : 1.01 2/11



**SDS #**: 083022

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing

media

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

: 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 dioxide.
 carbon monoxide
 nitrogen oxides (NO, NO<sub>2</sub> etc.)

phosphorus oxides

Special protective actions for fire-fighters

Special protective equipment 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.

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. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Date of revision : 2023/01/16 Singapore ENGLISH Version : 1.01 3/11



SDS#: 083022

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

Advice on general occupational hygiene

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

including any incompatibilities

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

# Section 8. Exposure controls/personal protection

## **Control parameters**

Occupational exposure limits

None.

#### **Occupational exposure limits Philippines**

Product/substance	Exposure limit values
Residual oils (petroleum), hydrotreated	TLV = Threshold Limit Value (Philippines, 4/2016). [Oil mist (mineral)]
	TLV: 5 mg/m³ 8 hours.
Residual oils (petroleum), solvent-dewaxed	TLV = Threshold Limit Value (Philippines, 4/2016). [Oil mist
	(mineral)] TLV: 5 mg/m³ 8 hours.
Distillates (petroleum), hydrotreated heavy	TLV = Threshold Limit Value (Philippines, 4/2016). [Oil mist
paraffinic	(mineral)]
	TLV: 5 mg/m³ 8 hours.

## **Advisory OEL**

: Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

### Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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.

## **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.

Date of revision : 2023/01/16 **ENGLISH** Version : 1.01 Singapore



SDS #: 083022

Eye/face protection

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

#### **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

before handling this product.

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

Other skin protection

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

**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

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.

: Open cup: 258°C (496.4°F) [ASTM D 92] Flash point

**Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure

: Not available. Vapor density : Not available.

**Relative density** : 0.898 [ASTM D 4052]

**Density** : 0.898 g/cm3 [15°C] [ASTM D 4052]

Solubility(ies)

Media	Result
øold water	Not soluble
hot water	Not soluble

Date of revision : 2023/01/16 **ENGLISH** Version : 1.01 Singapore



**SDS#:** 083022

Miscible with water : No.

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): 477.1 mm²/s (477.1 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** : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Carbon dioxide. carbon monoxide

nitrogen oxides (NO, NO2 etc.)

phosphorus oxides

**SADT** : Not available.

# **Section 11. Toxicological information**

### Information on toxicological effects

#### **Acute toxicity**

Product/substance	Result	Species	Dose	Exposure	Test
<b>2</b> ,6-di-tert-butylphenol	LD50 Dermal LD50 Oral	Rat - Male,	>5000 mg/kg >5000 mg/kg Single dose		- OECD 401 401

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

#### **Irritation/Corrosion**

Product/substance	Result	Species	Score	Exposure	Test
2,6-di-tert-butylphenol	Eyes - Cornea opacity	Rabbit	0	-	OECD 405 405
	Skin - Moderate irritant	Rat	-	4 hours 0.5 MI	OECD 404 404

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

Date of revision : 2023/01/16 Singapore ENGLISH Version : 1.01 6/11



TotalEnergies sps #: 083022

#### **Sensitization**

Product/substance	Route of exposure	Species	Result
2,6-di-tert-butylphenol	skin	Guinea pig	Not sensitizing

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

### **Mutagenicity**

Product/substance	Test	Experiment	Result
2,6-di-tert-butylphenol	OECD 471 471	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
	OECD 476	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative

**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**

Product/substance	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2,6-di-tert-butylphenol	-	Negative	Negative	Rat - Male, Female	Oral	-

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

**Teratogenicity** 

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

Specific target organ toxicity (single exposure)

Not available.

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

Specific target organ toxicity (repeated exposure)

Not available.

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

**Aspiration hazard** 

Not available.

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

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.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

Date of revision : 2023/01/16 Singapore ENGLISH Version : 1.01 7/11



lotalEnergies sps #: 083022

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

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
<b>2</b> ,6-di-tert-butylphenol	Sub-chronic NOAEL Oral	Rat - Male, Female	100 mg/kg NOAEL	days

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.

### **Numerical measures of toxicity**

**Acute toxicity estimates** 

N/A

Other information :

Not available.

# **Section 12. Ecological information**

## **Toxicity**

Product/substance	Result	Species	Exposure	Test
	Acute EC50 1.2 mg/l Acute EC50 0.45 mg/l Acute LC50 1 mg/l Chronic NOEC 0.035 mg/l Chronic NOEC 0.3 mg/l	Fish	72 hours 48 hours 96 hours 21 days 28 days	- - - -

#### Persistence/degradability

Date of revision : 2023/01/16 Singapore ENGLISH Version : 1.01 8/11



SDS#: 083022

Product/substance	Aquatic half-life	Photolysis	Biodegradability
2,6-di-tert-butylphenol	-	-	Not readily

### **Bioaccumulative potential**

Product/substance	LogK <sub>ow</sub>	BCF	Potential
2,6-di-tert-butylphenol	4.48	660	high

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: 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**

	UN	IMDG	ICAO/IATA	ADR/RID	ADN
UN/ID No	Not regulated.				
UN proper shipping name	-	-	-	-	-
Transport hazard class (es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

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 : Not available.

to IMO instruments

Date of revision : 2023/01/16 **ENGLISH** Version : 1.01 Singapore



**SDS #**: 083022

# **Section 15. Regulatory information**

Singapore - hazardous chemicals under government control

None.

#### **National regulations**

This Safety Data Sheet (SDS) has been prepared according to Singapore Standard SS 586 on "Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods"

Workplace Safety and Health (General Provision) Regulations

#### **Philippines**

### **National regulations**

This Safety Data Sheet (SDS) has been prepared according to EMB Memorandum Circular on "Guidance Manual for Department Administrative Order 2015-09, Rules and Procedures for the Implementation of GHS in Preparation of SDS and Labelling Requirements of Toxic Chemical Substances"

## **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### **Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

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

Not listed.

### **Inventory list**

Australia inventory (AIIC)

Canada inventory (DSL/NDSL)

China inventory (IECSC)

Europe inventory (EC)

: All components are listed or exempted.

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): All components are listed or

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

New Zealand Inventory of Chemicals (NZIoC)

Philippines inventory (PICCS)

Korea inventory (KECI)

**Taiwan Chemical Substances Inventory (TCSI)** 

Thailand inventory Turkey inventory

**United States inventory (TSCA 8b)** 

Vietnam inventory

: MI components are listed or exempted.

: All components are listed or exempted.

: MI components are listed or exempted.

: Not determined.

: Not determined.

: Not determined.

: All components are listed or exempted.

: 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.

Date of revision : 2023/01/16 Singapore ENGLISH Version : 1.01 10/11



otalEnergies sps #: 083022

## **Section 16. Other information**

**History** 

**Date of revision** : 2023/01/16 **Date of previous revision** : 2021/07/07

Version : 1.01

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

### Additional details on the supplier of the product

Total (Philippines) Corporation 7th Floor, 11th Corporate Center 11th Avenue, corner Triangle Drive, North Bonifacio, Bonifacio Global City 1634 Taguig City Philippines Tel: +63 2 88490888 Fax: +63 2 88490889

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 abovenamed 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.

Date of revision : 2023/01/16 Singapore ENGLISH Version : 1.01 11/11