

# SAFETY DATA SHEET CARTER SH 220

**SDS #:** C36N3QJHS

# **Section 1. Identification**

Product identifier : CARTER SH 220

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

**Identified uses** 

Transmission fluids

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

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.

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

**Precautionary statements** 

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

Other hazards which do not : None known.

result in classification

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Amines, C10-14-tert-alkyl	≤0.3	-
C16-18-(even numbered, saturated and unsaturated)-alkylamines	≤0.1	112-90-3

Additional information : The product is made from synthetic base oils

Date of revision : 2021/10/27 Singapore ENGLISH Version : 1 1/11



**SDS #**: C36N3QJHS

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 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**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

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

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
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.

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Date of revision : 2021/10/27 Singapore ENGLISH Version : 1 2/11



**SDS #:** C36N3QJHS

**Hazardous thermal** decomposition products : No specific data.

**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

## 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. 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 noncombustible, 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.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8).

**Advice on general** occupational hygiene

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

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.

Date of revision : 2021/10/27 **ENGLISH** Version :1 3/11 Singapore



**SDS #:** C36N3QJHS

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None.

#### Occupational exposure limits Philippines

Product/substance	Exposure limit values
None.	

#### **Advisory OEL**

: No known significant effects or critical hazards.

#### 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.

#### **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

: 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

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.

#### 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. Respirator with combination filter for vapor/particulate Type A/P1 Warning! filters have a limited use duration The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses None under normal use conditions

: 2021/10/27 Date of revision **ENGLISH** Version :1 Singapore



SDS#: C36N3QJHS

# 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** 

**Boiling point** 

Physical state : Liquid.

Color : Yellow. [Light]
Odor : Characteristic.
Odor threshold : Not available.

PH : Not available.
Melting point/freezing point : Not available.

Flash point : Open cup: 264°C (507.2°F) [ASTM D 92]

: Not available.

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 : 0.86 [ASTM D 4052]

**Solubility** : Insoluble in the following materials: cold water and hot water.

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)): 219 mm²/s (219 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**: The product is stable.

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.

SADT : Not available.

Date of revision : 2021/10/27 Singapore ENGLISH Version : 1 5/11



**SDS** #: C36N3QJHS

# Section 11. Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Product/substance	Result	Species	Dose	Exposure	Test
Amines, C10-14-tert-alkyl	LC50 Inhalation Vapor	Rat	1.19 mg/l	4 hours	OECD 403
	LC50 Inhalation Vapor	Rat	157 to 231 ppm	4 hours	-
	LD50 Dermal	Rabbit	251 mg/kg	-	OECD 402
	LD50 Oral	Rat	612 mg/kg	-	OECD 401
C16-18-(even numbered, saturated and unsaturated)-alkylamines	LC50 Inhalation Dusts and mists	Rat - Male	>0.099 mg/l	1 hours	OECD
,,	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-	OECD 402
	LD50 Oral	Rat - Male, Female	1689 mg/kg	-	OECD 401

**Conclusion/Summary** 

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

### **Irritation/Corrosion**

Product/substance	Result	Species	Score	Exposure	Test
C16-18-(even numbered, saturated and unsaturated)-	Skin - Visible necrosis	Rabbit	-	-	OECD 404
alkylamines	Eyes - Severe irritant	Rabbit	-	-	OECD 405

Skin

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

**Eyes** 

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

Respiratory

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

### **Sensitization**

Product/substance	Route of exposure	Species	Result
Amines, C10-14-tert-alkyl C16-18-(even numbered, saturated and unsaturated)- alkylamines	skin skin	Guinea pig Guinea pig	Sensitizing Not sensitizing

Skin

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

### Respiratory

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

### **Mutagenicity**

Product/substance	Test	Experiment	Result
C16-18-(even numbered, saturated and unsaturated)-alkylamines	OECD 471	Experiment: In vitro Subject: Bacteria	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**

Date of revision : 2021/10/27 Singapore ENGLISH Version :1 6/11



otalEnergies sps # : C36N3QJHS

	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Negative	Negative	Negative	Rat - Male, Female	Oral	-

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

#### **Teratogenicity**

Product/substance	Result	Species	Dose	Exposure
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Negative - Oral	Rabbit - Male, Female	>30 mg/kg NOAEL	-

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

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Category 3		Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Category 2		gastrointestinal tract, immune system, liver

#### **Aspiration hazard**

Name	Result
C16-18-(even numbered, saturated and unsaturated)-alkylamines	ASPIRATION HAZARD - Category 1

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: No known significant effects or critical hazards.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 : No specific data.
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.

Date of revision : 2021/10/27 Singapore ENGLISH Version :1 7/11



**SDS #:** C36N3QJHS

**Long term exposure** 

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Product/substance	Result	Species	Dose	Exposure
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Sub-acute NOAEL Oral	Rat - Male, Female	3.25 mg/kg	-
	Sub-acute LOAEL Dermal	Rat - Male, Female	12.5 mg/kg	-

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/substance	Oral (mg/ kg)		Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Amines, C10-14-tert-alkyl C16-18-(even numbered, saturated and unsaturated)-alkylamines	612 1689	251 N/A	N/A N/A	1.19 N/A	N/A N/A

# **Section 12. Ecological information**

### **Toxicity**

Product/substance	Result	Species	Exposure	Test
Amines, C10-14-tert-alkyl	Acute EC50 0.44 mg/l Fresh water	Algae - Selenastrum capricornutum	72 hours	OECD 201
	Acute EC50 0.24 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute EC50 63.5 mg/l	Micro-organism	30 minutes	-
	Acute LC50 1.3 mg/l	Fish	96 hours	-
	Acute NOEC 0.05 mg/l Fresh water	Algae - Selenastrum capricornutum	72 hours	OECD 201
	Chronic NOEC 0.078 mg/l	Fish - Oncorhynchus mykiss	96 days	OECD 210
C16-18-(even numbered, saturated and unsaturated)-alkylamines	Acute EC50 0.08 mg/l	Algae	72 hours	-
	Acute EC50 0.011 mg/l	Daphnia - Daphnia magna	48 hours	-
	Acute EC50 14 to 490.1 mg/l	Micro-organism	3 hours	-
	Acute LC50 0.06 mg/l	Fish	96 hours	-
	Chronic NOEC 0.013 mg/l	Daphnia - Daphnia magna	21 days	-

### **Conclusion/Summary**

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

Date of revision : 2021/10/27 Singapore ENGLISH Version :1 8/11



**SDS** #: C36N3QJHS

#### Persistence/degradability

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Amines, C10-14-tert-alkyl C16-18-(even numbered, saturated and unsaturated)- alkylamines	-		Not readily Readily

#### **Bioaccumulative potential**

Product/substance	LogK <sub>ow</sub>	BCF	Potential
Amines, C10-14-tert-alkyl	2.9	-	low

#### **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.

Date of revision : 2021/10/27 Singapore ENGLISH Version : 1 9/11



**SDS** #: C36N3QJHS

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

# 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 : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

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

Japan inventory (ISHL): Not determined.

New Zealand : All components are listed or exempted.

Philippines : All components are listed or exempted.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are listed or exempted.

Viet Nam : Not determined.

Date of revision : 2021/10/27 Singapore ENGLISH Version : 1 10/11



SDS#: C36N3QJHS

# **Section 16. Other information**

**History** 

Date of revision : 2021/10/27

Date of previous revision : No previous validation

Version : 1

**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 8490888
Fax: +63 2 8490889

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 : 2021/10/27 Singapore ENGLISH Version : 1 11/11