



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

SDS # : 31146

**CARTER EP 220**

Date of the previous version: 2015-04-07

Revision Date: 2016-02-10

Version 7

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1. Product identifier

<b>Product name</b>	<b>CARTER EP 220</b>
<b>Number</b>	189
<b>Substance/mixture</b>	Mixture

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

<b>Identified uses</b>	Industrial gear oil.
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1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	A - TOTAL UK LIMITED One Euston Square 40 Melton Street. London. NW1 2FD UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033
	B - TOTAL 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

For further information, please contact:

<b>Contact Point</b>	A - Specific Product Related Info: 01977 636200
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	B - HSE
<b>E-mail Address</b>	A - rm.gb-msds@total.co.uk
	B - rm.msds-lubs@total.com

1.4. Emergency telephone number

00 33 149 00 00 49 (24h/24, 7d/7)  
TOTAL UK ltd: + 44 (0) 20 7339 8000  
For Lubricants only: TOTAL Lubricants - +44 (0)1977 636200  
For bitumen only: Total Bitumen +44 (0) 17 7272 9302

UK: National Poisons Information Service (NPIS): NHS111 or a doctor



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## Section 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

**REGULATION (EC) No 1272/2008 \*\*\****For the full text of the H-Statements mentioned in this Section, see Section 2.2.\*\*\****Classification**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008\*\*\*

## 2.2. Label elements

Labelled according to **REGULATION (EC) No 1272/2008\*\*\*****Hazard Statements \*\*\***

None\*\*\*

**Precautionary statements**

None\*\*\*

**Supplemental Hazard Statements**

EUH210 - Safety data sheet available on request\*\*\*

Contains Amines, C12-14-tert-alkyl. **May produce an allergic reaction\*\*\***

## 2.3. Other hazards

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.**Environmental properties** **Should not be released into the environment.\*\*\***

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixture

**Hazardous components \*\*\***

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification
2,6-di-tert-butylphenol***	204-884-0	01-2119490822-33	128-39-2	0.5-1.0	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315)
Amines, C12-14-tert-alkyl***	273-279-1***	01-2119456798-18** *	68955-53-3	0.1 - 0.24	Skin Corr. 1B (H314) Skin Sens. 1A (H317) Acute Tox. 4 (H302) Acute Tox. 3 (H311) Acute Tox. 2 (H330) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)***

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Long chain alkenylamine***	-	no data available	^	0.01-0.10	Skin Corr. 1B (H314) Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Eye Dam. 1 (H318) STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304)***
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**Additional information** Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

## Section 4: FIRST AID MEASURES

## 4.1. Description of first aid measures

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.***
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.***
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.***
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.***

## 4.2. Most important symptoms and effects, both acute and delayed

<b>Eye contact</b>	Not classified.
<b>Skin contact</b>	Not classified. May produce an allergic reaction.
<b>Inhalation</b>	Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

## 4.3. Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** Treat symptomatically.

## Section 5: FIRE-FIGHTING MEASURES

## 5.1. Extinguishing media

**Suitable extinguishing media** Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.\*\*\*

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**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

**Special hazard** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

5.3. Precautions for fire-fighters

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit.

**Other information** Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Section 6: ACCIDENTAL RELEASE MEASURES
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6.1. Personal precautions, protective equipment and emergency procedures

**General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.\*\*\*

6.2. Environmental precautions

**General Information** Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.\*\*\*

6.3. Methods and materials for containment and cleaning up

**Methods for cleaning up** Dam up. Contain spillage, and then collect with non-combustable absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.\*\*\*

6.4. Reference to other sections

**Personal protective equipment** See Section 8 for more detail.

**Waste treatment** See section 13.

Section 7: HANDLING AND STORAGE
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7.1. Precautions for safe handling

**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.\*\*\*

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- Prevention of fire and explosion**      Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.\*\*\*
- Hygiene measures**                              Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.\*\*\*

## 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures/Storage conditions**                              Keep away from food, drink and animal feedingstuffs. Keep in a banded area. Keep container tightly closed. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.\*\*\*

- Materials to avoid**                                      Strong oxidising agents.\*\*\*

## 7.3. Specific use(s)

- Specific use(s)**    No information available.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parametres

- Exposure limits**    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)

- Legend**    See section 16

#### DNEL Worker (Industrial/Professional)\*\*\*

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
2,6-di-tert-butylphenol*** 128-39-2			2.77 mg/kg bw/day Dermal 19.6 mg/m <sup>3</sup> Inhalation	
Amines, C12-14-tert-alkyl*** 68955-53-3			12.5 mg/m <sup>3</sup> Inhalation***	12.1 mg/m <sup>3</sup> Inhalation***

#### DNEL Consumer\*\*\*

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
2,6-di-tert-butylphenol*** 128-39-2			1.67 mg/kg bw/day Oral 5.8 mg/m <sup>3</sup> Inhalation	

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Amines, C12-14-tert-alkyl*** 68955-53-3			2.5 mg/m <sup>3</sup> Inhalation 0.35 mg/kg bw/day Oral***	1.2 mg/m <sup>3</sup> Inhalation***
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**Predicted No Effect Concentration (PNEC) \*\*\***

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
2,6-di-tert-butylphenol*** 128-39-2	0.00045 mg/l fw 0.000045 mg/l mw 0.0045 mg/l or	0.196 mg/kg dw fw 0.0196 mg/kg dw mw	0.0389 mg/kg dw		10 mg/l	
Amines, C12-14-tert-alkyl*** 68955-53-3	0.001 mg/L fw 0.0001 mg/l mw 0.004 mg/l or***	2.14 mg/kg dw fw 0.214 mg/kg dw mw***	0.428 mg/kg dw***		0.635 mg/l***	4.71 mg/kg***

### 8.2. Exposure controls

#### Occupational Exposure Controls

##### Engineering measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

##### Personal protective equipment

###### General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

###### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

###### Eye protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

###### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

###### Hand protection

Hydrocarbon-proof gloves: Nitrile rubber, Fluorinated rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 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.\*\*\*

#### Environmental exposure controls

##### General Information

The product should not be allowed to enter drains, water courses or the soil.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

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Appearance Clear\*\*\*  
 Colour brown\*\*\*  
 Physical state @20°C Liquid\*\*\*  
 Odour characteristic\*\*\*  
 Odour Threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable***	
Melting point/range		Not applicable***	
Boiling point/boiling range		No information available***	
Flash point ***	270*** °C*** 518*** °F***		ISO 2592*** ISO 2592***
Evaporation rate		No information available***	
Flammability Limits in Air		No information available	
Upper ***	***	No information available***	***
Lower ***	***	No information available***	***
Vapour pressure		No information available***	
Vapour density		No information available***	
Relative density ***	*** 0.892*** -*** 0.902***	@ 15 °C***	ASTM D 4052***
Density	892*** - *** 902*** kg/m <sup>3</sup> ***	@ 15 °C***	ASTM D 4052***
Water solubility		Insoluble***	
Solubility in other solvents		Soluble in many common organic solvents***	
logPow		No information available***	
Autoignition temperature		No information available***	
Decomposition temperature		No information available	
Viscosity, kinematic ***	*** 213*** -*** 238*** mm <sup>2</sup> /s***	@ 40 °C ***	ASTM D 445***
***	*** 18.5*** mm <sup>2</sup> /s***	@ 100 °C ***	ASTM D 445***
Explosive properties		Not explosive***	
Oxidising properties		Not applicable***	
Possibility of hazardous reactions		No information available***	

9.2. Other information

Freezing point No information available

Pour point \*\*\* -36\*\*\* °C\*\*\* \*\*\* ASTM D 5950\*\*\*

Section 10: STABILITY AND REACTIVITY
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10.1. Reactivity

General Information No information available.\*\*\*

10.2. Chemical stability

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**Stability** Stable under recommended storage conditions.10.3. Possibility of hazardous reactions**Hazardous reactions** None under normal processing.10.4. Conditions to Avoid**Conditions to Avoid** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.\*\*\*10.5. Incompatible materials**Materials to avoid** Strong oxidising agents.\*\*\*10.6. Hazardous Decomposition Products**Hazardous Decomposition Products** None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.\*\*\*Section 11: TOXICOLOGICAL INFORMATION11.1. Information on toxicological effectsAcute toxicity Local effects Product Information**Skin contact** . Not classified. May produce an allergic reaction.**Eye contact** . Not classified.**Inhalation** . Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.**Ingestion** . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,6-di-tert-butylphenol***	> 5000 mg/kg ( Rat )	LD50 > 2000 mg/kg ( Rabbit )	
Amines, C12-14-tert-alkyl***	LD50 612 mg/kg (Rat)	LD50 251 mg/kg (Rabbit)	LC50 (4h) 157 ppm (Rat - gas)
Long chain alkenylamine***	LD50 1689 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	

Sensitisation**Sensitisation** Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.Specific effects**Carcinogenicity** This product is not classified carcinogenic.

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**Mutagenicity** This product is not classified as mutagenic.  
**Reproductive toxicity** This product does not present any known or suspected reproductive hazards.

**Repeated Dose Toxicity**

**Subchronic Toxicity** No information available.

**Target Organ Effects (STOT)****Other information**

**Other adverse effects** Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

## Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified. 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.\*\*\*

**Acute aquatic toxicity - Product Information**

No information available.\*\*\*

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
2,6-di-tert-butylphenol*** 128-39-2	EC50 (72h) 1.2 mg/l	EC50 (48h) = 0.45 mg/L Daphnia magna	LC50(96h) 1 mg/l (fish)	
Amines, C12-14-tert-alkyl*** 68955-53-3	EC50 (72h) 0.44 mg/l (Algae)	EC50 (48h) 2.5 mg/l (Daphnia magna)	LC50 (96h) 1.3 mg/l (Fish)	
Long chain alkenylamine*** ^	EC50 (96h) 0.03 mg/l (Algae)	EC50 (48h) 0.011 mg/l (Daphnia magna)	LC50 (96h) 0.11 mg/l (Fish)	

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
2,6-di-tert-butylphenol*** 128-39-2			NOEC (28d) 0.3 mg/l (fish)	

**Effects on terrestrial organisms**

No information available.\*\*\*

12.2. Persistence and Degradability

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**General Information**

No information available.

12.3. Bioaccumulative potential**Product Information** No information available.\*\*\***logPow** No information available\*\*\***Component Information**

Chemical Name	log Pow
2,6-di-tert-butylphenol*** - 128-39-2	4.48
Amines, C12-14-tert-alkyl*** - 68955-53-3	2.9

12.4. Mobility in soil**Soil** Given its physical and chemical characteristics, the product generally shows low soil mobility.\*\*\***Air** Loss by evaporation is limited.\*\*\***Water** Insoluble. The product spreads on the surface of the water.\*\*\*12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment** No information available.12.6. Other adverse effects**General Information** No information available.\*\*\*

## Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Waste from residues / unused products** Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.\*\*\***EWC Waste Disposal No** The following Waste Codes are only suggestions: 13 02 05. 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.

## Section 14: TRANSPORT INFORMATION

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<u>ADR/RID</u>	not regulated
<u>IMDG/IMO</u>	not regulated
<u>ICAO/IATA</u>	not regulated
<u>ADN</u>	not regulated

Section 15: REGULATORY INFORMATION
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Further information

No information available

15.2. Chemical Safety Assessment
**Chemical Safety Assessment** No information available
15.3. National regulatory information
**The United Kingdom**

- Avoid exceeding occupational exposure limits (see section 8).

**Ireland**

- Avoid exceeding occupational exposure limits (see section 8).

Section 16: OTHER INFORMATION
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**Full text of H-Statements referred to under sections 2 and 3**

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H315 - Causes skin irritation

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H330 - Fatal if inhaled

H335 - May cause respiratory irritation

H318 - Causes serious eye damage

H373 - May cause damage to the kidneys/ liver/ eyes/ brain/ digestive system/ central nervous system through prolonged or repeated exposure if swallowed

H304 - May be fatal if swallowed and enters airways\*\*\*

**Abbreviations, acronyms**

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

OECD = Organization for Economic Co-operation and Development

bw = body weight

bw/day = body weight/day

GLP = Good Laboratory Practice

fw = fresh water

mw = marine water

or = occasional release

dw = dry weight

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygienists

IARC = International Agency for Research of Cancer

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

NOAEL = No Observed Adverse Effect Level

EC x = Effect Concentration associated with x% response

**Legend Section 8**

TWA: Time Weight Average

STEL: Short Time Exposure Limit

+ Sensitiser

\*\* Hazard Designation

M: Mutagen

\*

C:

R:

Skin designation

Carcinogen

Toxic to reproduction

**Revision Date:** 2016-02-10**Revision Note** \*\*\* Indicates updated section.**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

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This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of Safety Data Sheet

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