



# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 080911

## CARTER BIO 100

Date of the previous version: not applicable

Revision Date: 2012-01-10

Version 1

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

<b>Product name</b>	<b>CARTER BIO 100</b>
<b>Number</b>	7H4
<b>Pure substance/mixture</b>	Mixture

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

<b>Identified uses</b>	Lubricant, Gear.
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#### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71
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#### For further information, please contact

<b>Contact Point</b>	HSE
<b>E-mail Address</b>	rm.msds-lubs@total.com

#### 1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)  
France - ORFILA Tél : 01.45.42.59.59  
In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48. -  
MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Hédouard  
Herriot, 5 place d'Arsonvil, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de  
Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel ( 15 )

### 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.

##### DIRECTIVE 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16



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The substance/mixture is non-dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

**Symbol(s)**

Not Classified

2.2. Label elements**Labelled according to:**

Directive 1999/45/EC

**R-phrases(s)**

none

**S-phrases(s)**

none

Contains Isomeric mixture of N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine. 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.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixture

Chemical Name	EC-No	REACH registration No:	CAS-No	Weight %	Classification (Dir. 67/548)	Classification (Reg. 1272/2008)
Polysulfides, di-tert-dodecyl	270-335-7	01-2119540516-14	68425-15-0	<2.5	R53	Aquatic Chronic 4 (H413)
Isomeric mixture of N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine	-	no data available	^	<0.25	Xi;R38 R43 N;R51-53	
Alkylamine phosphates	279-632-6	no data available	80939-62-4	<0.25	Xi;R36/38 N;R51-53	

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2,6-di-tert-butylphenol	204-884-0	no data available	128-39-2	<0.2	Xi;R38 N;R50-53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315)
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**Additional information** The product is made from synthetic base oils (esters)

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

## 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. May cause an allergic skin reaction.
<b>Inhalation</b>	Move to fresh air. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting.
<b>Protection of First-aiders</b>	Use personal protective equipment.

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

<b>Eye contact</b>	Not classified. Avoid contact with eyes.
<b>Skin contact</b>	Not classified. May produce an allergic reaction. Avoid contact with skin.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

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5.1. Extinguishing media**Suitable Extinguishing Media** Foam. Carbon dioxide (CO<sub>2</sub>). ABC powder. Water spray.**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** No information available.5.3. Advice 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.**6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**General Information** Use personal protective equipment. Avoid contact with skin, eyes and inhalation of vapors. Do not touch or walk through spilled material. Keep people away from and upwind of spill/leak. Contaminated surfaces will be extremely slippery.6.2. Environmental precautions**General Information** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. 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. Soak up with inert absorbent material. After cleaning, flush away traces with water. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).6.4. Reference to other sections**Personal Protective Equipment** See Section 8 for more detail**Waste treatment** See section 13



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**7. HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. Do not breathe vapors or spray mist. Use only in well-ventilated areas.

**Hygiene measures**

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Do not dry hands with rags that have been contaminated with product. Wash hands before breaks and at the end of workday. Do not use abrasives, solvents or fuels. Do not put product contaminated rags into workwear pockets.

**7.2. Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Protect from moisture. Do not remove the hazard labels of the containers (even if they are empty). Store in original container.

**Materials to Avoid**

Strong oxidizing agents.

**7.3. Specific end uses****Specific use(s)**

No information available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Exposure limits**

Contains no substances with occupational exposure limit values

**Legend**

See section 16

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Polysulfides, di-tert-dodecyl 68425-15-0			23,5 mg/m <sup>3</sup> (inhalation) 33,3 mg/kg bw/jour (dermal)	

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Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Polysulfides, di-tert-dodecyl 68425-15-0			5,8 mg/m <sup>3</sup> (inhalation) 1,66 mg/kg bw/jour (ingestion) 16,6 mg/kg bw/jour (dermal)	

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Polysulfides, di-tert-dodecyl 68425-15-0					1 g/l	66,7 mg/kg food

## 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

Protective engineering solutions should be implemented and in use before personal protective equipment is considered.

##### 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 141). 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. Long sleeved clothing. Protective shoes or boots. Extended and repeated contacts with skin can cause skin ailments which may be aggravated by minor injuries or contact with soiled clothing.

##### Hand Protection

Impervious gloves. 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

### Environmental exposure controls

#### General Information

Do not allow material to contaminate ground water system.



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**9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties

<b>Appearance</b>		limpid	
<b>Color</b>		No information available	
<b>Physical State @20°C</b>		liquid	
<b>Odor</b>		Characteristic	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
<b>pH</b>		No information available	
<b>Boiling point/boiling range</b>		No information available	
<b>Flash point</b>	<b>246 °C</b> 475 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC).
<b>Evaporation rate</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>Vapor Pressure</b>		No information available	
<b>Vapor density</b>		No information available	
<b>Density</b>	967 kg/m <sup>3</sup>	@ 15 °C	
<b>Water solubility</b>		Insoluble	
<b>Solubility in other solvents</b>		No information available	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		Not applicable	
<b>Viscosity, kinematic</b>	90 - 110 mm <sup>2</sup> /s	@ 40 °C	ISO 3104
<b>Explosive properties</b>	Not explosive		
<b>Oxidizing Properties</b>	Not applicable		
<b>Possibility of hazardous reactions</b>	No information available		

9.2. Other information**10. STABILITY AND REACTIVITY**10.1. Reactivity

**General Information** No information available.

10.2. Chemical stability

**Stability** Stable under recommended storage conditions.



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10.3. Possibility of hazardous reactions**Hazardous Reactions** None under normal processing.10.4. Conditions to Avoid**Conditions to Avoid** Heat, flames and sparks. Take precautionary measures against static discharges.10.5. Incompatible Materials**Materials to Avoid** Strong oxidizing agents.10.6. Hazardous Decomposition Products**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.**11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effectsAcute toxicity Local effects Product Information**Skin contact** Not classified. May produce an allergic reaction. Avoid contact with skin.**Eye contact** Not classified. Avoid contact with eyes.**Inhalation** Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.**Ingestion** Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,6-di-tert-butylphenol	> 5000 mg/kg ( Rat )	= 10000 mg/kg ( Rabbit )	

Sensitization**Sensitization** Contains sensitizer(s). May produce an allergic reaction.Specific effects



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<b>Carcinogenicity</b>	This product is not classified carcinogenic.
<b>Mutagenicity</b>	This product is not classified as mutagenic.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards.
<b><u>Repeated Dose Toxicity</u></b>	
<b>Subchronic toxicity</b>	No information available.
<b><u>Target Organ Effects (STOT)</u></b>	
<b>Target Organ Effects (STOT)</b>	No information available.
<b><u>Other information</u></b>	
<b>Other adverse effects</b>	No information available.

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not classified.

#### 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
Polysulfides, di-tert-dodecyl 68425-15-0	NOEC (72h): < 0,08 mg/l (Pseudokirchneriella subcapitata-OECD 201)	NOEC (48h) < 0,1 mg/l (daphnia magna)	LC50 (96h) > 100 mg/l (Danio rerio-OCDE 203) LOEC: 100 mg/l	IC50 (16h) : 10.000 mg/l (Pseudomonas putida)
2,6-di-tert-butylphenol 128-39-2		EC50 (48h) = 0.45 mg/L Daphnia magna		

#### Chronic aquatic toxicity Product Information

No information available.

#### Chronic aquatic toxicity Component Information

No information available.



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**Effects on terrestrial organisms**

No information available.

12.2. Persistence and degradability**General Information**

No information available.

12.3. Bioaccumulative potential**Product Information**

No information available.

**logPow**

No information available

**Component Information**

Chemical Name	log Pow
Polysulfides, di-tert-dodecyl - 68425-15-0	6.2

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**

The product is insoluble and floats on 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.

**13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**Waste from Residues / Unused Products**

Dispose of in accordance with the European Directives on waste and hazardous waste.

Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.



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**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal

**EWC Waste Disposal No.**

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 06.

## 14. TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated

ICAO/IATA Not regulated

ADN Not regulated

## 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

## International Inventories

<b>EINECS/ELINCS</b>	-
<b>TSCA</b>	-
<b>DSL</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	-
<b>KECL</b>	-
<b>PICCS</b>	-
<b>AICS</b>	-
<b>NZIoC</b>	-
<b>Legend</b>	

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory



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**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

Further information

15.2. Chemical Safety Assessment

**Chemical Safety Assessment**      No information available

## 16. OTHER INFORMATION

**Full text of R-phrases referred to under sections 2 and 3**

R53 - May cause long-term adverse effects in the aquatic environment

R43 - May cause sensitization by skin contact

R38 - Irritating to skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/38 - Irritating to eyes and skin

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Full text of H-Statements referred to under section 2 and 3**

H315 - Causes skin irritation

H413 - May cause long lasting harmful effects to aquatic life

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

**Abbreviations, acronyms**

## Legend Section 8

+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

**Revision Date:** 2012-01-10

**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 the safety data sheet**