

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 37895

CARTER BIO 320

Date of the previous version: 2012-10-12

Revision Date: 2012-10-12

Version 1.02

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

1.1. Product identifier

Product name	CARTER BIO 320
Number	OCW
Pure substance/mixture	Mixture

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

Identified uses

Automotive gear oils, Industrial gear oil.

1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL LUBRIFIANTS
	562 Avenue du Parc de L'ile
	92029 Nanterre Cedex
	Tél: +33 (0)1 41 35 40 00
	Fax: +33 (0)1 41 35 84 71

For further information, please contact:

Contact Point	HSE
E-mail Address	rm.msds-lubs@total.com

1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59

In France : - PARIS : Hốpital 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 Edouard Herriot, 5 place d'Arsonvol, 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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Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC Symbol(s) Not Classified

2.2. Label elements

Labelled according to

Directive 1999/45/EC

R-phrase(s) none

S-phrase(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 nature The product is made from synthetic base oils (esters).						
Chemical Name EC-No REACH registration CAS-No Weight % Classification (Dir. Classification (Reg.				Classification (Reg. 1272/2008)		
No 67/548) 1272/2008)						
Polysulfides, di-tert-dodecyl	270-335-7	01-2119540516-14	68425-15-0	<2	R53	Aquatic Chronic 4 (H413)

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

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact

Rinse thoroughly with plenty of water, also under the eyelids.



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Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
4.2. Most important symp	toms and effects, both acute and delayed
Eye contact	Not classified.
Skin contact	Not classified. May produce an allergic reaction.
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.
4.3. Indication of immedia	ate medical attention and special treatment needed, if necessary
Notes to physician	Treat symptomatically.
5. FIRE-FIGHTING MEASUR	RES
5.1. Extinguishing media	_
Suitable Extinguishing Media	Foam. Carbon dioxide (CO 2). ABC powder. Water spray or fog.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
5.2. Special hazards arisi	ng 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. Advice for fire-fighter	<u>'S</u>
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



SDS #: 37895 CARTER BIO 320 Revision Date: 2012-10-12 Version 1.02 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. Methods and materials for containment and cleaning up 6.3. Methods for cleaning up Dam up. 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). 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.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handlingWhen using, do not eat, drink or smoke. For personal protection see section 8. Use only in
well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes
and clothing.Prevention of fire and explosionTake precautionary measures against static discharges: Ground/bond containers, tanks
and transfer/receiving equipment.Hygiene measuresEnsure 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



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Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bund container tightly closed. Keep preferably in the original container. Oth indication of the regulation label on the new container. Do not remove the containers (even if they are empty). Design the installations in ord emissions of product (due to seal breakage, for example) onto hot cas contacts. Protect from frost, heat and sunlight. Protect from moisture.	erwise reproduce all the hazard labels of ler to avoid accidental sings or electrical
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	Do not contain substance with european workplace exposure limits in	concentration above

Legend

See section 16

regulatory thresholds

DNEL Worker (Industrial/Professional)

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 ³ (inhalation) 33,3 mg/kg bw/jour (dermal)	
DNEL Consumer				·
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 ³ (inhalation) 1,66 mg/kg bw/jour (ingestion) 16,6 mg/kg bw/jour	

Predicted No Effect Concentration (PNEC)

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

8.2. Exposure controls

Occupational Exposure Controls



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Engineering Measures	Apply technical measures to comply with the occupational exposure limits. confined spaces (tanks, containers, etc.), ensure that there is a supply of a breathing and wear the recommended equipment.	
Personal Protective Equipment		
General Information	Protective engineering solutions should be implemented and in use before protective equipment is considered.	personal
Respiratory protection	None under normal use conditions. In case of vapours and aerosol formati with combination filter for vapour/particulate (EN 141), Type A/P2. The use apparatus must comply strictly with the manufacturer's instructions and the governing their choices and uses.	of breathing
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.
Hand Protection	Impervious gloves: Nitrile rubber, Fluorinated rubber. Please observe the ir regarding permeability and breakthrough time which are provided by the su gloves. Also take into consideration the specific local conditions under whic used, such as the danger of cuts, abrasion. If used in solution, or mixed wit substances, and under conditions which differ from EN 374, contact the su approved gloves.	upplier of the ch the product is th other

Environmental exposure controls

General Information

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Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Color Physical State @20°C Odor		limpid colorless To light yellow liquid Characteristic Oily
Property pH Boiling point/boiling range	Values	Remarks Not applicable Not applicable
Flash point	250 °C 482 °F	
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density		No information available No information available No information available No information available

Method

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Revision Date: 2012-10-12 Version 1.02 1016 kg/m³ @ 15 °C Density Water solubility Insoluble Solubility in other solvents No information available No information available logPow Autoignition temperature No information available Viscosity, kinematic 288 - 352 mm2/s @ 40 °C ISO 3104 **Explosive properties** Not explosive **Oxidizing Properties** Not applicable Possibility of hazardous reactions Not applicable 9.2. Other information -15 °C Pour point NF T 60-105 10. STABILITY AND REACTIVITY 10.1. Reactivity **General Information** No information available. 10.2. Chemical stability Stability Stable under recommended storage conditions. 10.3. Possibility of hazardous reactions **Hazardous Reactions** None under normal processing. 10.4. Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Conditions to Avoid 10.5. Incompatible Materials Materials to Avoid Strong oxidizing 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. 11. TOXICOLOGICAL INFORMATION 11.1. Information on toxicological effects

Acute toxicity Local effects Product Information



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Skin contact	. Not classified. May produce an allergic reaction.
Eye contact	. Not classified.
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 Infor	mation
Sensitization	
Sensitization	Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.
Specific effects	
Carcinogenicity Mutagenicity Reproductive toxicity Repeated Dose Toxicity	This product is not classified carcinogenic. This product is not classified as mutagenic. This product does not present any known or suspected reproductive hazards.
Subchronic toxicity	No information available.
Target Organ Effects (STOT)	
Target Organ Effects (STOT)	No information available.
Other information	
Other adverse effects	No information available.
12. ECOLOGICAL INFORM	ATION

12.1. Toxicity

Not classified.

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Acute aquatic toxicity - Product Information No information available.

Acute aquatic toxicity - Component Information

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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)



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Chronic aquatic toxicity • Product Information No information available.

Chronic aquatic toxicity - Component Information No information available.

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

General Information

No information available.

Bioaccumulative potential 12.3.

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 v	PvB assessment	
PBT and vPvB assessment	No information available.	
12.6. Other adverse effects	<u>.</u>	
General Information	No information available.	

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods



SDS # : 37895 CARTER BIO 320			
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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.		
Contaminated packaging	Empty containers should be taken to an approved waste handling disposal.	site for recycling or	
EWC Waste Disposal No.	The following Waste Codes are only suggestions:. 13 02 06. Accor Waste Catalogue, Waste Codes are not product specific, but appli- codes should be assigned by the user based on the application for used.	cation specific. Waste	
14. TRANSPORT INFORMA	TION		
	Not regulated		

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

EINECS/ELINCS	Complies		
TSCA	Complies		
DSL	Complies		
ENCS	•		
IECSC	Complies		
KECL	Complies		
PICCS	•		
AICS	•		
NZIoC	-		
Legend			
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			
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List			

ENCS - Japan Existing and New Chemical Substances



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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

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

H413 - May cause long lasting harmful effects to aquatic life

Abbreviations, acronyms

Legend Sect	ion 8		
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

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 Revision Note
 *** Indicates updated section.

 This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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