

### MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

#### **SDS # :** 38711

### **BIO NEPTAN 220 (MAR)**

Date of the previous version: 2012-10-12

Revision Date: 2012-10-12

Version 1.01

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

#### 1.1. Product identifier

Product name	<b>BIO NEPTAN 220 (MAR)</b>
Number	QHI
Pure substance/mixture	Mixture

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

#### Identified uses Lubricant, Gear.

#### 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.** 67/548) No 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 skin with soap and water. Wash contaminated clothing before reuse. In the case of skin irritation or allergic reactions see a physician.
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	Carbon dioxide (CO 2). ABC powder. Foam. 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.
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#### 6. ACCIDENTAL RELEASE MEASURES

#### 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-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<br/>well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes<br/>and clothing.Prevention of fire and explosionTake precautionary measures against static discharges. Ground/bond containers, tanks<br/>and transfer/receiving equipment.Hygiene measuresEnsure the application of strict rules of hygiene by the personnel exposed to the risk of<br/>contact with the product. Regular cleaning of equipment, work area and clothing is<br/>recommended. Wash hands before breaks and immediately after handling the product. Do<br/>not use abrasives, solvents or fuels. Do not dry hands with rags that have been<br/>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 container tightly closed. Keep preferably in the original conta indication of the regulation label on the new container. Do no the containers (even if they are empty). Design the installation emissions of product (due to seal breakage, for example) or contacts. Protect from frost, heat and sunlight. Protect from	ainer. Otherwise reproduce all ot remove the hazard labels of ons in order to avoid accidental nto hot casings or electrical
Materials to Avoid	Strong oxidizing agents.	
7.3. Specific end uses		
8. EXPOSURE CONTROLS	PERSONAL PROTECTION	
8.1. Control parameters	_	

Exposure limits

Do not contain substance with european workplace exposure limits in concentration above regulatory thresholds

Legend

See section 16

#### DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	_
Polysulfides,			23,5 mg/m <sup>3</sup> (inhalation)	
di-tert-dodecyl			33,3 mg/kg bw/jour	
68425-15-0			(dermal)	
DNEL Consumer				
Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	_
Polysulfides,			5,8 mg/m <sup>3</sup> (inhalation)	
di-tert-dodecyl			1,66 mg/kg bw/jour	
68425-15-0			(ingestion)	
			16,6 mg/kg bw/jour	
			(dermal)	

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

#### Engineering Measures

When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.



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Personal Protective Equipment				
General Information	If the product is used in mixtures, it is recommended that you con protective equipment suppliers. These recommendations apply to			
Respiratory protection	None under normal use conditions. In case of vapours and aeros with combination filter for vapour/particulate (EN 141), Type A/P2 apparatus must comply strictly with the manufacturer's instruction governing their choices and uses.	2. The use of breathing		
Eye Protection	If splashes are likely to occur, wear:. Safety glasses with side-shi	elds.		
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long	g sleeved clothing.		
Hand Protection	Impervious gloves: Nitrile rubber, Fluorinated rubber. Please obseregarding permeability and breakthrough time which are provided gloves. Also take into consideration the specific local conditions u used, such as the danger of cuts, abrasion. If used in solution, or substances, and under conditions which differ from EN 374, conta approved gloves.	d by the supplier of the under which the product is mixed with other		

#### **Environmental exposure controls**

**General Information** 

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

### 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	Method
Flash point	<b>250 °C</b> 482 °F		
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow	1003 kg/m <sup>3</sup>	No information available No information available No information available @ 15 °C Insoluble No information available No information available	

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Autoignition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions 9.2. Other information	198 - 242 mm2/s Not explosive Not applicable Not applicable	No information available @ 40 °C	ISO 3104
Pour point	-18 °C		NF T 60-105
10. STABILITY AND REACT	VITY		
10.1. Reactivity			
10.2. Chemical stability			
Stability	Stable under recommen	ded storage conditions.	
10.3. Possibility of hazardo	ous reactions		
Hazardous Reactions	None under normal proc	essing.	
10.4. Conditions to Avoid			
Conditions to Avoid	Heat (temperatures abov	ve flash point), sparks, ignition po	ints, flames, static electricity.
10.5. Incompatible Materia	als		
Materials to Avoid	Strong oxidizing agents.		
10.6. Hazardous Decompos	sition Products		
Hazardous Decomposition Product			molysis may produce gases of , various hydrocarbons, aldehydes
11. TOXICOLOGICAL INFOR	MATION		
11.1. Information on toxico	ological effects		
Acute toxicity Local effects Produc	t Information		

Skin contact . Not classified. May produce an allergic reaction.

Eye contact . Not classified.

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Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation respiratory system.	on of
Ingestion	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vom diarrhea.	iting and
Acute toxicity - Component Infor	mation	
Sensitization		
Sensitization	Not classified as a sensitizer. Contains sensitizer(s). May produce an allergio	c 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	5.
Subchronic toxicity	No information available.	
Target Organ Effects (STOT)		
Target Organ Effects (STOT)	No information available.	
Other information		
Other adverse effects	Characteristic skin lesions (pimples) may develop following prolonged and re exposures (contact with contaminated clothing).	epeated

#### 12. ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Not classified.

#### Acute aquatic toxicity - Product Information No information available.

#### Acute aquatic toxicity - Component Information

icale aqualle terreity				
Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Polysulfides, di-tert-dodecyl	NOEC (72h): < 0,08 mg/l	NOEC (48h) < 0,1 mg/l	LC50 (96h) > 100 mg/l	IC50 (16h) : 10.000 mg/l
68425-15-0	(Pseudokirchneriella	(daphnia magna)	(Danio rerio-OCDE 203)	(Pseudomonas putida)
	subcapitata-OECD 201)		LOEC: 100 mg/l	

#### Chronic aquatic toxicity • Product Information

No information available.

#### Chronic aquatic toxicity - Component Information



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No information available.

#### 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 Component Information

### No information available

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 sinks in water.
12.5. Results of PBT and v	PvB assessment_
PBT and vPvB assessment	No information available.
12.6. Other adverse effect	<u>S</u>
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.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.



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EWC Waste Disposal No.	EWC Waste Disposal No. 13 02 06. According to the European Waste Cat Codes are not product specific, but application specific. Waste codes shou by the user based on the application for which the product was used.		
14. TRANSPORT INFORM	ATION		
ADR/RID	Not regulated		
IMDG/IMO	Not regulated		
ICAO/IATA	Not regulated		
ADN	Not regulated		

#### 15. REGULATORY INFORMATION

# <u>15.1.</u> Safety, health and environmental regulations/legislation specific for the substance or mixture\_

European Union

#### International Inventories

EINECS/ELINCS TSCA DSL	Complies Complies Complies	
ENCS	-	
IECSC	Complies	
KECL	Complies	
PICCS	-	
AICS	-	
NZIoC	-	
Legend		
	Existing Commercial Chemical Substances/EU List of Notified Chemical Substances	
TSCA - United States Toxic Substances Co		
DSL/NDSL - Canadian Domestic Substance		
<b>ENCS</b> - Japan Existing and New Chemical <b>IECSC</b> - China Inventory of Existing Chemi		
KECL - Korean Existing and Evaluated Che		
PICCS - Philippines Inventory of Chemicals and Chemical Substances		
AICS - Australian Inventory of Chemical Su	ubstances	
NZIOC - New Zealand Inventory of Chemic	als	

Further information



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#### 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 Section 8			
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction
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 2012-10-12

 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