

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 085824

TALUMAR B

Vorsion	2
Version	2

Date of the previous version: 2016-05-12

Revision Date: 2016-08-26

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	TALUMAR B
Number	ER5
Substance/mixture	Mixture

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

Identified uses

Marine diesel oil additive.***

1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL LUBRIFIANTS
	562 Avenue du Parc de L'ile
	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:

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

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670

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

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 classified as dangerous in accordance with Regulation (EC) No. 1272/2008 Reproductive toxicity - Category 2 - (H361)



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2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008



Signal Word WARNING

Hazard Statements H361f - Suspected of damaging fertility

Precautionary Statements

P201 - Obtain special instructions before use P308 + P313 - IF exposed or concerned: Get medical advice/attention P501 - Dispose of contents/ container to an approved waste disposal plant

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 ingredients

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
p-dodecylphenol***	310-154-3***	01-2119513207-49	121158-58-5	3-<5	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Repr. 2 (H361f) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Acute M factor = 10 Chronic M factor = 10

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.



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Section 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	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.
Inhalation	remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Protection of First-aiders	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
4.2. Most important symptom	oms and effects, both acute and delayed
Eye contact	Not classified.
Skin 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.

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

Notes to physician	Treat symptomatically.
Notes to physician	rieal symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO₂). 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 arising from the substance or mixture

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Special Hazard
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Incomplete combustion and thermolysis may produce gases of varying toxicity such as



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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-fighters

Special protective equipment for
fire-fightersWear self-contained breathing apparatus and protective suit.Other informationCool 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

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 material 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.

Section 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



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recommended. Wash hands and face 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

Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty).
	on the new container. Do not remove the hazard labels of the containers (even if they are

Incompatible materials Oxidizing agents. Strong acids.

7.3. Specific end uses

Specific use(s)

No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)

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	
p-dodecylphenol***	44.18 mg/m ³ inhalation		1.7621 mg/m ³ inhalation	
121158-58-5	166 mg/kg bw/day		0.25 mg/kg bw/day	
	dermal		dermal	
DNEL Consumer				
Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	_
p-dodecylphenol***	13.26 mg/m ³ inhalation		0.79 mg/m ³ inhalation	
121158-58-5	50 mg/kg bw/day dermal		0.075 mg/kg bw/day	
	1.26 mg/kg bw/day oral		dermal	

Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
p-dodecylphenol***	0.000074 mg/l fw	0.226 mg/kg dw	0.118 mg/kg dw		100 mg/l	4 mg/kg food
121158-58-5	0.0000074 mg/l	fw			-	
	mw	0.0266 mg/kg dw				
	0.00037 mg/l or	mw				

8.2. Exposure controls



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Occupational Exposure Controls		
Engineering Measures	Apply technical measures to comply with the occupational exposure limits. We confined spaces (tanks, containers, etc.), ensure that there is a supply of air s 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 app protective equipment suppliers. These recommendations apply to the product	
Respiratory protection	None under normal use conditions. When workers are facing concentrations a exposure limit they must use appropriate certified respirators. Respirator with filter for vapour/particulate (EN 14387): Type A/P2. The use of breathing appa comply strictly with the manufacturer's instructions and the regulations govern choices and uses.	combination aratus must
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 clo	othing.
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolor with the product, it is recommended to wear gloves complying with EN 420 ar standards, protecting at least for 480 minutes and having a thickness of 0,38 These values are indicative only. The level of protection is provided by the ma glove, its technical characteristics, its resistance to the chemicals to be handle appropriateness of its use and its replacement frequency.	nd EN 374 mm at least. aterial of the

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

Appearance Color Physical State @20°C Odor Odor Threshold		limpid dark liquid Characteristic No information available	
<u>Property</u> pH Melting point/range	Values_	<u>Remarks</u> Not applicable No information available	<u>Method</u>
Boiling point/boiling range		No information available	
Flash point	151 °C 304 °F		
Evaporation rate		No information available	



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Flammability Limits in Air		No information available	
Vapor Pressure Vapor density Relative density Density Water solubility Solubility in other solvents logPow Autoignition temperature Decomposition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	2250 mm2/s 100 - 240 mm2/s Not explosive Not applicable No information available	No information available No information available No information available No information available slightly soluble No information available No information available No information available @ 40 °C @ 100 °C	ASTM D 445 ASTM D 445
9.2. Other information			
Freezing Point		No information available	
Section 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

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

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.

Section 11: TOXICOLOGICAL INFORMATION



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11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

Skin contact Eye contact Inhalation	 Not classified. Not classified. Not classified. 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.
ATEmix (oral)	8,078.00 mg/kg
ATEmix (dermal)	9,679.00 mg/kg
ATEmix (inhalation-dust/mist)	9.30 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
p-dodecylphenol***	LD50 2100 mg/kg bw (Rat -	LD50 15000 mg/kg bw (Rabbit -	
	OECD 401)	OECD 402)	

Sensitization

Sensitization

Not classified as a sensitizer.

Specific effects

Carcinogenicity Mutagenicity Reproductive toxicity

This product is not classified carcinogenic. This product is not classified as mutagenic. Suspected of damaging fertility or the unborn child.

Chemical Name	European Union
p-dodecylphenol***	Repr. 2 (H361f)
121158-58-5	

Repeated Dose Toxicity

Subchronic toxicity

No information available.

Target Organ Effects (STOT)

Other information

Other adverse effects

Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified. An additive present in the composition of this product would require a classification, however available experimental data indicate that no classification is required.

Acute aquatic toxicity - Product Information



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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
p-dodecylphenol***	LC50 (72h) 0.15 mg/l	EC50 (48h) 0.037 mg/l	EL50 (96h) 40 mg/l	
121158-58-5	(Desmodesmus subspicatus	(Daphnia magna - OECD	(Pimephales promelas -	
	- OECD 201)	202)	OECD 203)	

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
p-dodecylphenol***		NOEC (21d) 0.0037 mg/l		_
121158-58-5		(Daphnia magna - OECD		
		211)		

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

General Information

No information available.

12.3. Bioaccumulative potential

Product Information No in	nformation available.
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logPow	No information available	
Component Information		
Che	emical Name	log Pow

Chemical Name	log Pow
p-dodecylphenol*** - 121158-58-5	7.1
12.4 Mohility in soil	

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



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No information available.	
<u>S</u>	
No information available.	
SIDERATIONS	
thods	
Dispose of in accordance with the European Directives on waste and I Dispose of in accordance with local regulations. Where possible recyc disposal or incineration. If recycling is not practicable, dispose of in co regulations. After use, this oil must be sent to a licensed waste oil facil of used oil poses a risk to the environment. Mixture with other waste ty solvents, brake- and cooling liquids is forbidden.	ling is preferred to mpliance with local lity. Incorrect disposal
Empty containers should be taken to an approved waste handling site disposal.	for recycling or
According to the European Waste Catalogue, Waste Codes are not pr application specific. Waste codes should be assigned by the user base for which the product was used.	
FORMATION	
Not regulated	
	No information available. S No information available. SIDERATIONS thods Dispose of in accordance with the European Directives on waste and Dispose of in accordance with local regulations. Where possible recyclid disposal or incineration. If recycling is not practicable, dispose of in coregulations. After use, this oil must be sent to a licensed waste oil facil of used oil poses a risk to the environment. Mixture with other waste ty solvents, brake- and cooling liquids is forbidden. Empty containers should be taken to an approved waste handling site disposal. According to the European Waste Catalogue, Waste Codes are not pr application specific. Waste codes should be assigned by the user bass for which the product was used. FORMATION Not regulated Not regulated Not regulated

Section 15: REGULATORY INFORMATION

<u>15.1.</u> Safety, health and environmental regulations/legislation specific for the substance or mixture_

European Union

International Inventories	All the substances contained in this product are listed or exempted from listing in the
	following inventories:
	Australia (AICS)
	Canada (DSL/NDSL)
	China (IECSC)



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Korea (KECL) U.S.A. (TSCA) Europe (EINECS/ELINCS/NLP) Japan (ENCS) New Zealand (NZIoC) Philippines (PICCS) Taiwan (TCSI)

Further information

No information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment

No information available

Section 16: OTHER INFORMATION

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

H315 - Causes skin irritation

H319 - Causes serious eye irritation H361f - Suspected of damaging fertility

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists bw = body weight bw/day = body weight/day EC x = Effect Concentration associated with x% response GLP = Good Laboratory Practice IARC = International Agency for Research of Cancer 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 LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading NIOSH = National Institute of Occupational Safety and Health NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration NOEL = No Observed Effect Level OECD = Organization for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material DNEL = Derived No Effect Level PNEC = Predicted No Effect Concentration dw = dry weight fw = fresh water mw = marine water or = occasional release

Legend Section 8



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TWA: Time	Weight Average		
STEL: Sho	rt Time Exposure Limit		
	issible exposure limit		
	mmended exposure limit		
	hold Limit Values		
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction
M:	3	-	5

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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