

MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 32890

BIOHYDRAN TMP 32

Date of the previous version: 2012-04-25

Revision Date: 2012-12-12

Version 1.01

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

1.1. Product identifier

Product name	BIOHYDRAN TMP 32
Number	H17
Pure substance/mixture	Mixture

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

Identified uses Hydraulic 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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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

Not classified/No labelling required

R-phrase(s) none***

S-phrase(s) none***

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)
Benzenepropanoicacid, 3,5-bis	406-040-9*	no data available	125643-61-0	< 2.5	R53	Aquatic Chronic 4 (H413)
(1,1-dimethyl-ethyl)-4-hydroxy-	**					
C7-C9 branched alkyl ester***						

Additional information

The product is made from synthetic base oils

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.



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Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.	
Skin contact	Remove contaminated clothing and shoes. Wash skin with soap and water. W contaminated clothing before reuse. High pressure jets may cause skin damage. In this case, the casualty should immediately to hospital.	
Inhalation	Move to fresh air.	
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious per physician or Poison Control Center immediately.	erson. Call a
4.2. Most important sympt	toms and effects, both acute and delayed	
Eye contact	Not classified.	
Skin contact	Not classified. High pressure injection of the products under the skin may hav consequences even though no symptom or injury may be apparent.	e very serious
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation or system.	of respiratory
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomitin diarrhea.	g and
4.3. Indication of immedia	te medical attention and special treatment needed, if nec	essary
Notes to physician	Treat symptomatically.	

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

Special HazardIncomplete 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-fighters

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



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Other informationCool 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
 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 handling	When 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 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.



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7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage
conditionsKeep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep
container tightly closed. Keep preferably in the original container. Otherwise reproduce all
indication of the regulation label on the new container. 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 oxidizing agents.

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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 effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Benzenepropanoicacid, 3.5-bis			0.5 mg/kg Dermal 3.5 mg/m ³ Inhalation***	
(1,1-dimethyl-ethyl)-4-hyd				
roxy-C7-C9 branched				
alkyl ester***				
125643-61-0				
ONEL Consumer***				
Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Benzenepropanoicacid, 3,5-bis			0.25 mg/kg Dermal 0.25 mg/kg Oral***	
(1,1-dimethyl-ethyl)-4-hyd			3.3.5	
roxy-C7-C9 branched alkyl ester***				

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
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Benzenepropanoica cid, 3,5-bis (1,1-dimethyl-ethyl)- 4-hydroxy-C7-C9 branched alkyl ester*** 125643-61-0	0.001 mg/l mw	0.37 mg/kg dw fw 0.037 mg/kg dw mw***		10 mg/l***	
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	None under normal use conditions. In case of vapours and aerosol formation:. Respirator with combination filter for vapour/particulate (EN 14387). 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	Protective gloves: Fluorinated rubber. Nitrile rubber. 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

n 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 yellow liquid Oily



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Property pH	Values	Remarks Not applicable***	Method
Boiling point/boiling range		Not applicable***	
Flash point ***	300*** °C***		ISO 2592
-	572*** °F***		ISO 2592.
Evaporation rate		No information available***	
Flammability Limits in Air		No information available	
Vapor Pressure		No information available***	
Vapor density		No information available***	
Density	932*** kg/m ³	@ 15 °C	ISO 3675
Water solubility		Insoluble***	
Solubility in other solvents		No information available***	
logPow		No information available***	
Autoignition temperature		No information available***	
Viscosity, kinematic ***	*** 32*** mm2/s	@ 40 °C ***	ISO 3104 ***
***	*** 7.6*** mm2/s***	@ 100 °C ***	ISO 3104 ***
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	Not applicable		
9.2. Other information			

10. STABILITY AND REACTIVITY

10.1.	Reactivity	
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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



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Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

Skin contact	. Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.	
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 Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydroxy-C7-C9 branched alkyl ester***	LD50 rat > 2000 mg/kg (Rat - OECD 401)***	LD50 > 2000 mg/kg (Rat - OECD 402)***		
Sensitization				
Sensitization	Not classified as a sensitizer.			
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				

12. ECOLOGICAL INFORMATION

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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
Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydrox y-C7-C9 branched alkyl ester*** 125643-61-0	EC50 (72 h) > 3 mg/l Scenedesmus (OECD201)***	EC50 (24 h) > 100 mg/l Daphnia magna (OECD 202)***	LC50 (96 h) > 74 mg/l Brachydanio rerio (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
Benzenepropanoicacid, 3,5-bis (1,1-dimethyl-ethyl)-4-hydrox y-C7-C9 branched alkyl ester*** 125643-61-0		NOEC (21d) <= 0.01 mg/l Daphnia magna semi static (OECD 211)***		

Effects on terrestrial organisms

No information available.

Persistence and degradability 12.2.

General Information

Product is biodegradable.

12.3. Bioaccumulative potential

Product Information

No information available.

logPow **Component Information** 12.4. Mobility in soil No information available***



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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	d vPvB assessment	
PBT and vPvB assessment	No information available.	
12.6. Other adverse effe	ects	
General Information	No information available.	
13. DISPOSAL CONSIDER	RATIONS	
13.1. Waste treatment r	nethods	
Waste from Residues / Unused Products	lues / Unused Should not be released into the environment. Dispose of in accordance with the Europea Directives on waste and hazardous waste. Dispose of in accordance with local regulation	
Contaminated packaging Empty containers should be taken to an approved waste handling site for recy disposal.		
EWC Waste Disposal No.	The following Waste Codes are only suggestions:. 13 01 11, 13 01 12. 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 produ was used.	
14. TRANSPORT INFORM	IATION	
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



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European Union

International Inventories

EINECS/ELINCS TSCA DSL ENCS IECSC KECL 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 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

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Abbreviations, acronyms

Legend Section 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

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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