

## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 32891

## **BIOHYDRAN TMP 46**

Date of the previous version: 2012-04-03 Revision Date: 2012-12-12 Version 1.01

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

## 1.1. Product identifier

Product name BIOHYDRAN TMP 46

Number H18
Pure substance/mixture Mixture

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

Identified uses Hydraulic Fluid.

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: Hopital 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)

### 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\*\*\*

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

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



# **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

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	CAS-No	Weight %	Classification (Dir.	Classification (Reg.
		No			67/548)	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.



## **BIOHYDRAN TMP 46**

**Revision Date:** 2012-12-12 **Version** 1.01

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. Wash

contaminated clothing before reuse.

High pressure jets may cause skin damage. In this case, the casualty should be sent

immediately to hospital.

**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 symptoms and effects, both acute and delayed

Eye contact Not classified.

**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.

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.

### FIRE-FIGHTING MEASURES

## 5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). 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 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-fighters

Special protective equipment for

fire-fighters

Wear self-contained breathing apparatus and protective suit.



## **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

Other information

Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 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.

### 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.



# **BIOHYDRAN TMP 46**

**Revision Date: 2012-12-12** Version 1.01

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep 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.

### 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 (1,1-dimethyl-ethyl)-4-hyd roxy-C7-C9 branched alkyl ester*** 125643-61-0			0.5 mg/kg Dermal 3.5 mg/m³ Inhalation***	

## **DNEL Consumer\*\*\***

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

### **Predicted No Effect Concentration** (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
---------------	-------	----------	------	-----	-----	------



## **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

Benzenepropanoica	0.01 mg/l fw	0.37 mg/kg dw fw	3.16 mg/kg***	10 mg/l***	
cid, 3,5-bis	0.001 mg/l mw	0.037 mg/kg dw			
(1,1-dimethyl-ethyl)-	1 mg/l or***	mw***			
4-hydroxy-C7-C9					
branched alkyl					
ester***					
125643-61-0					

### 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** 

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

### PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance limpid
Color yellow
Physical State @20°C liquid
Odor Oily



# **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

Property pH Boiling point/boiling range	Values	Remarks Not applicable*** Not applicable***	<u>Method</u>
Flash point ***	<b>300*** °C***</b> 572*** °F***		ISO 2592 ISO 2592.
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature	920 kg/m³	No information available*** No information available No information available*** No information available*** @ 15 °C Insoluble*** No information available*** No information available*** No information available***	ISO 3675
Viscosity, kinematic ***  Explosive properties Oxidizing Properties Possibility of hazardous reactions 9.2. Other information	*** 46*** mm2/s *** 9.3*** mm2/s*** Not explosive Not applicable Not applicable	@ 40 °C *** @ 100 °C ***	ISO 3104 *** ISO 3104 ***

## 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



## **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

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	3 3 (	LD50 > 2000 mg/kg (Rat - OECD	
(1,1-dimethyl-ethyl)-4-hydroxy-C7-C9	OECD 401)***	402)***	
branched alkyl ester***			

### Sensitization

**Sensitization** Not classified as a sensitizer.

Specific effects

CarcinogenicityThis product is not classified carcinogenic.MutagenicityThis product is not classified as mutagenic.

Reproductive toxicity
Repeated Dose Toxicity

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



# **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

12.1. Toxicity

Not classified.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

Acute aquatic toxicity	Component imormation			
Chemical Name	Toxicity to algae	Toxicity to daphnia and	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Benzenepropanoicacid,	EC50 (72 h) > 3 mg/l	EC50 (24 h) > 100 mg/l	LC50 (96 h) > 74 mg/l	
3,5-bis	Scenedesmus	Daphnia magna (OECD	Brachydanio rerio (OECD	
(1,1-dimethyl-ethyl)-4-hydrox	(OECD201)***	202)***	203)***	
y-C7-C9 branched alkyl				
ester***				
125643-61-0				

### 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.

## 12.2. Persistence and degradability

## **General Information**

Product is biodegradable.

## 12.3. Bioaccumulative potential

**Product Information** 

No information available.

logPow Component Information No information available\*\*\*
No information available.

12.4. Mobility in soil



Soil

## **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

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

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** 

Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated packaging

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

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 product

was used.

### 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



# **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

\_\_\_\_\_

## **European Union**

#### International Inventories

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

### Abbreviations, acronyms

Legend Section 8

+ Sensitizer \* Skin designation

\* Hazard Designation C: Carcinogen

M: Mutagen R: Toxic to reproduction

**Revision Date:** 2012-12-12



## **BIOHYDRAN TMP 46**

Revision Date: 2012-12-12 Version 1.01

**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