

according to Regulation (EC) No 1907/2006 (REACH)

## **HYDRAULIC OIL FR HFDU 46**

Creation date 28. April 2019 Revision no.

Date of revision Version

SECTION 1: Identification of the substance/mixture and of the company/undertaking

substance / mixture mixture

Number

1.1.

Other names of the mixture

**Product identifier** 

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

Intended use of the mixture Fully synthetic biodegradable hydraulic fluid fire resistant

Not recommended use of the mixture not available

1.3. Details of the supplier of the safety data sheet

**Importer** 

Name or trade name Pacific Bio Lubricants Ltd.

Address 11H Piermark Drive, North Harbour 0632, Auckland

New Zealand

Telephone 09 973 4390

E-mail admin@lubeco.co.nz

Manufacturer

Name or trade name BIONA JERSÍN,s. r. o. Address Jersín 45, Jersín, 588 25

Jersin 45, Jersin, 588 25 Czech Republic

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 + 420 567 277 164

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 E-mail
 j.zidlicka@biona.cz

Competent person responsible for the safety data sheet

Name Jana Zidlicka E-mail j.zidlicka@biona.cz

1.4. Emergency telephone number

Technical Helpline NZ: 0800 582 326

New Zealand National Poisons Centre: 0800 764 766

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

This product has not been classified as hazardous under applicable New Zealand regulations.

Not classified as Dangerous Goods for transport, according to NZS 5433:2012 Transport of Dangerous Goods on Land.

The most serious adverse physico-chemical effects

Unknown

The most serious adverse effects on human health and the environment

Unknown

## 2.2. Label elements

## **Additional information**

EUH 210 Safety data sheet available on request.

## 2.3. Other hazards

Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) no. 1272/2008.



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# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### **Chemical characterization**

Mixture of substances specified below and non-hazardous additives.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

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Identification numbers	Name of the substance	Content in % weight		Note
	Reaction mass of isomers of: C7-9-alkyl 3- (3,5-di-tert-butyl-4-hydroxyphenyl) propionate	<0,8	Aquatic Chronic 4, H413	1

### Notes

1 Substance of unknown or variable composition, complex reaction products or biological materials – UVCB.

The full text of all standard phrases and guidelines is specified in Section 16.

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

## Inhalation

Terminate the exposure immediately; move the affected person to fresh air.

## Skin contact

Remove contaminated clothes.

## Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed)

## Ingestion

Rinse out of mouth with clean water. In the event of issue, find medical help.

## 4.2. Most important symptoms and effects, both acute and delayed

## **Inhalation**

Not expected.

## Skin contact

Not expected.

## Eye contact

Not expected.

## **Ingestion**

Not expected.

## 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.





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## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Accommodate extinguishing components to the location of fire

#### Unsuitable extinguishing media

Not available

# 5.2. Special hazards arising from the substance or mixture

Fire produces heavy, black smoke, with potential development of carbon monoxide and dioxide and other toxic gases. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

## 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

#### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

The mixture is non-flammable. Provide sufficient ventilation. Use gloves in case of prolonged contact. Follow the instructions in Sections 7 and 8.

## 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

## 6.3. Methods and material for containment and cleaning up

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per Section 13. Collected material should be disposed of in accordance with locally valid regulations. Upon an escape of large quantities of the product, inform the Fire Department and the Environmental Department of the Municipal Authority with extended scope of competencies. After removal of the product, wash the contaminated site with plenty of water or another suitable cleaning material. Do not use solvents.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in areas where it is not in contact with open fire and other ignition sources. No smoking. Protect against direct sunlight. Use non-sparking tools. Do not inhale gases and vapours. Prevent contact with skin and eyes. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight.

Storage class

12 - Other non-combustible liquids

# The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

## 7.3. Specific end use(s)

not available

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

None





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## 8.2. Exposure controls

Follow usual measures for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

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## Eye and face protection

It is not needed

#### Skin protection

When handling in long-term or repeatedly, use protective gloves resistant against the product. Observe recommendations of the particular manufacturer of the gloves in the choice of their appropriate thickness, material and permeability. Use barrier creams for skin protection, they should however not be applied once exposure has occurred. Observe other recommendations of the manufacturer. Other protection: Protective antistatic clothing made of natural fibres (cotton) or synthetic fibres resistant against elevated temperatures.

## Respiratory protection

Mask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of toxic substances are exceeded or in a poorly ventilated environment.

data not available

### Thermal hazard

not available

# Restriction of the environment exposure

Observe usual measures for protection of the environment, see Section 6.2.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state liquid at 20°C Color vellow Odour characteristic Odour threshold data not available рΗ data not available Melting point/freezing point <-35 °C (ASTM D97) Initial boiling point and boiling range data not available Flash point >320 °C (ASTM D92) Evaporation rate data not available

Upper/lower flammability or explosive limits

Flammability limits data not available Explosive limits data not available Vapour pressure data not available Vapour density data not available Relative density data not available

Solubility(ies)

Flammability (solid, gas)

solubility in water data not available solubility in fats data not available Partition coefficient: n-octanol/water data not available Auto-ignition temperature data not available Decomposition temperature data not available Viscosity data not available

Kinematic viscosity 41.5-51.5 mm<sup>2</sup>/s at 40°C

Explosive properties data not available Oxidising properties data not available

9.2. Other information

Density  $0.900-0.940 \text{ g/cm}^3 \text{ at } 15 \text{ °C (EN ISO } 12185)$ 

Auto-ignition temperature data not available





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## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The mixture is non-flammable

#### 10.2. **Chemical stability**

The product is stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Unknown.

## 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

## 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous products are formed at high temperature and in fire, such as carbon monoxide and carbon dioxide, heavy smoke and nitrogen oxides.

### **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

No toxicological data is available for the mixture.

### **Acute toxicity**

Based on available data the classification criteria are not met.

## Corrosion/skin irritation

Based on available data the classification criteria are not met.

## Serious eye damage / eye irritation

Based on available data the classification criteria are not met.

## Respiratory / skin sensitization

Based on available data the classification criteria are not met.

## Germ cells mutagenicity

Based on available data the classification criteria are not met.

## Carcinogenicity

Based on available data the classification criteria are not met.

## Reproductive toxicity

Based on available data the classification criteria are not met.

## Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

## Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

## **Aspiration hazard**

Based on available data the classification criteria are not met





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## **SECTION 12: Ecological information**

12.1. Toxicity

#### **Acute toxicity**

The product contains no substances with an effect against active action of microorganisms.

### 12.2. Persistence and degradability

The product is biodegradable.

### 12.3. Bioaccumulative potential

Not available.

## 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

The product is not classified as PBT or vPvB.

# 12.6. Other adverse effects

Not available

## **SECTION 13: Disposal considerations**

Hazard of environmental contamination; remove waste in accordance with local and/or national regulations.

## 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to an authorised person for waste removal (specialized company) authorised for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

## Legislation of waste

Council Directive 75/442/EEC on waste, as last amended. Council Directive 91/689/EEC on hazardous waste, as last amended. Decision 94/3/EC establishing a list of wastes, as last amended.

Code of type of waste 130111

Type of waste synthetic hydraulic oils
Subgroup of waste waste hydraulic oils

Waste group OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in

chapters 05, 12 and 19)

Code of type of waste packaging 150110

Type of waste packaging containing residues of or contaminated by dangerous substances Subgroup of waste packaging (including separately collected municipal packaging waste)

Waste group WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

# **SECTION 14: Transport information**

## 14.1. National regulations

Land Transport Standard: Dangerous Goods NZS 5433:2012 This product is not regulated as a Dangerous Good.



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#### 14.2. UN number and name

not available

#### 14.3. Transport hazard class(es)

not available

#### 14.4 **Packing group**

not available

#### 14.5. **Environmental hazards**

not available

#### 14.6. Special precautions for user

Reference in Sections 4 to 8.

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

## **SECTION 15: Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

EU Ecolabel licence no. CZ/027/001 - meets the definition of an Environmentally Acceptable Lubricant (EAL) under the US EPA Vessel General Permit 2013 (VGP 2013).

#### National regulatory information - New Zealand **15.3.**

HSNO Approval number: HSR002605

HSNO Group Standard: Lubricants (Low Hazard) Group Standard 2006

## **SECTION 16: Other information**

## A list of standard risk phrases used in the safety data sheet

H302 Harmful if swallowed. 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. H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

## A list of additional standard phrases used in the safety data sheet

Safety data sheet available on request. **EUH 210** 

## Other important information about safety of human health

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per Section 1. The user is responsible for adherence to all related health protection regulations.

## Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by road

**BCF** Bioconcentration Factor

CAS Unique Numeric Identifier used in chemistry for chemical substances

Classification, Labelling and Packaging CLP

DNEL Derived no-effect level

EC50 Concentration of a substance when it is affected 50% of the population **EINECS** European Inventory of Existing Commercial Chemical Substances

**Fms** Emergency plan

Environmental Release category FrC50

Identification code for each substance listed in EINECS FS

TATA International Air Transport Association

**IBC** International Code For The Construction And Equipment of Ships Carrying Dangerous

Chemicals





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IC50 Concentration causing 50 % blockade
ICAO International Civil Aviation Organization

IMDG International Maritime Dangerous Goods Transport

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the

population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the population

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level Log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

MFAG First Aid Manual

NOAEC No observed adverse effect concentration

NOAEL No observed adverse effect level NOEC No observed effect concentration

NOEL No observed effect level
OEL Occupational Exposure Limits

PBT Persistent ,Bioaccumulative and Toxic

PEL Permissible Exposure Limit
PNEC Predicted no-effect concentration

REACH Registration, Evaluation and Restriction of chemicals (EP and Council Regulation (EC)

No.1907/2006)

RID Agreement on the transport of dangerous goods by rail

UN Four-digit code reflecting the characteristics of substances or mixtures in transport
UVCB Substances of unknown or variable composition, complex reaction products or biological

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity

Aquatic Acute Hazardous to the aquatic environment Aquatic Chronic Hazardous to the aquatic environment

Eye Irrit. Eye irritation

Repr. Reproductive toxicity

Skin Irrit. Skin irritation

## Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

## Recommended restrictions of use

not available

## Information about the sources of data used to compile the Safety Data Sheet

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

## Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

