

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: MARINE PLANTOSYN 46 HVI

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

**Identified uses:** Lubricant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTS GERMANY GmbH

> Friesenheimer Str. 19 68169 Mannheim

Telephone: +49 621 3701-0 (ZENTRALE)

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Contact for request of safety data sheets

E-mail: Automotive lubricants automotive-FLG@fuchs.com industrie-FLG@fuchs.com

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Informing department for safety data sheets

E-mail: produktsicherheit-FLG@fuchs.com

1.4 Emergency telephone number: +49 621 3701-0 (Mo - Fr 08:00 - 16:00 Uhr)

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

**Hazard summary** 

No data available. **Physical Hazards:** 

## 2.2 Label Elements

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EUH208: Contains Dialkyl dithiophosphate ester. May produce an allergic

reaction.

EUH210: Safety data sheet available on request.

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

> hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the envi-

ronment without control.

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

#### 3.2 Mixtures

General information: Mixture based on biodegradable ester compounds in combination with spe-

cial additives.

Chemical name	Identifier		REACH Registra- tion No.	Notes
Dialkyl dithiophosphate ester	EC: 434-070-2	0,10% - <1,00%	01-2119658068-31	

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Classification

Chemical name	Identifier	Classification	
Dialkyl dithiophosphate ester	EC: 434-070-2		Eye Dam. 1;H318, Skin Sens. 1B;H317, Aquatic Chronic 3;H412

CLP: Regulation No. 1272/2008.

For the wording of the listed hazard statements refer to section 16.

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

General: Instantly remove any clothing soiled by the product.

#### 4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

**Skin Contact:** Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms

and effects, both acute and

delayed:

May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

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PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.



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## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

ed

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting proce-

dures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter

drains.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

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

6.1 Personal precautions, protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

**6.2 Environmental Precautions:** 

Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning

up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

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

7.1 Precautions for safe handling:

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the flash point.

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**7.3 Specific end use(s):** No data available.

Storage Class: 10, Combustible liquids

## **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering

controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain air-

borne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

**General information:** Wash hands before breaks and after work. Use personal protective equip-

ment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be ad-

hered to inhandling the chemicals or the mineral oil products.

**Eye/face protection:** Safety glasses (EN 166) recommended during refilling.

Skin protection

**Hand Protection:** Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufactur-

er of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

**Respiratory Protection:** Ensure good ventilation/exhaustion at the workplace. Avoid breathing va-

pour/ aerosol.

Thermal hazards: Not known.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated foot-

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wear that cannot be cleaned.

**Environmental Controls:** No data available.

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

## 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid Form: liquid

Color: Pale yellow Odor: Characteristic

Odor Threshold: Not applicable for mixtures

**pH:** substance/mixture is non-soluble (in water)

Freezing point: Not applicable for mixtures

Boiling Point: Value not relevant for classification

Flash Point: > 220 °C

**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas):

Value not relevant for classification

Vapor pressure:Not applicable for mixturesRelative vapor density:Not applicable for mixtures

**Density:** 0,91 g/ml (15,00 °C) (DIN 51757)

Solubility(ies)

Solubility in Water: Insoluble in water
Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature:

Decomposition Temperature:

Value not relevant for classification
Value not relevant for classification
Value not relevant for classification
46 mm2/s (40 °C, DIN 51562-1)
Value not relevant for classification
Oxidizing properties:

Value not relevant for classification
Value not relevant for classification

**9.2 Other information**No data available.

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

**10.1 Reactivity:** Stable under normal use conditions.

**10.2 Chemical Stability:** Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

**10.4 Conditions to avoid:** Stable under normal use conditions.

**10.5 Incompatible Materials:** Strong oxidizing substances. Strong acids. Strong bases.

10.6 Hazardous Decomposition

**Products:** 

Thermal decomposition or combustion may liberate carbon oxides and oth-

er toxic gases or vapors.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

**Acute toxicity** 

Oral

**Product:** 

Not classified for acute toxicity based on available data.

**Dermal** 

**Product:** 

Not classified for acute toxicity based on available data.

Inhalation

**Product:** 

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

**Product:** Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation:

**Product:** Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization:

**Product:** Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Specified substance(s)

Dialkyl dithiophosphate , OECD 406-1 (Guinea Pig)

ester sensitizing

**Germ Cell Mutagenicity** 

**Product:** Based on available data, the classification criteria are not met.

Carcinogenicity

**Product:** Based on available data, the classification criteria are not met.

Reproductive toxicity

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** Based on available data, the classification criteria are not met.

**Aspiration Hazard** 

**Product:** Based on available data, the classification criteria are not met.

Other adverse effects: No data available.

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## **SECTION 12: Ecological information**

## 12.1 Toxicity

**Acute toxicity** 

**Product:** Based on available data, the classification criteria are not met.

**Fish** 

Specified substance(s)

Dialkyl dithiophosphate LC 50 (Fish, 96 h): 38 mg/l (OECD 203)

ester

Aquatic Invertebrates Specified substance(s)

Dialkyl dithiophosphate EC 50 (Water Flea, 48 h): 53 mg/l (OECD 202)

ester

Chronic ToxicityProduct: Based on available data, the classification criteria are not met.

**Toxicity to Aquatic Plants Specified substance(s)** 

Dialkyl dithiophosphate

ester

EC 50 (Alga, 72 h): 79 mg/l (OECD 201)

## 12.2 Persistence and Degradability

**Biodegradation** 

**Product:** Not applicable for mixtures

Specified substance(s)

Dialkyl dithiophosphate < 10 % (OECD 301B) Not readily degradable.

ester

12.3 Bioaccumulative potential

**Product:** Not applicable for mixtures

Specified substance(s)

Dialkyl dithiophosphate Bioconcentration Factor (BCF): < 10 (OECD 305)

ester

12.4 Mobility in soil:

**Product:** Not applicable for mixtures

12.5 Results of PBT and vPvB

assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

**12.6 Other adverse effects:** No data available.

Water Hazard Class

(WGK):

WGK 1: slightly water-endangering.

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## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

**General information:** Dispose in accordance with all applicable regulations.

**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe

way. When storing used products, ensure that the waste categories and

mixing instructions are observed.

**European Waste Codes** 

13 01 12\*: readily biodegradable hydraulic oils

## **SECTION 14: Transport information**

#### ADR/RID

14.1 UN Number: –

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): – Hazard No. (ADR): –

Tunnel restriction code:

14.4 Packing Group: –

14.5 Environmental hazards: –

14.6 Special precautions for user: —

#### **ADN**

14.1 UN Number: -

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s):

14.3 Packing Group: –

14.5 Environmental hazards: –

14.6 Special precautions for user:

#### **IMDG**

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s):

EmS No.:

14.3 Packing Group: -

14.5 Environmental hazards: -

14.6 Special precautions for user:

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**IATA** 

14.1 UN Number: –

14.2 Proper Shipping Name:

14.3 Transport Hazard Class(es):

Class: Non-dangerous goods

Label(s):

14.4 Packing Group:

14.5 Environmental hazards:

- 14.6 Special precautions for user:

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

## **SECTION 15: Regulatory information**

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

**EU Regulations** 

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

**National Regulations** 

**Water Hazard Class** 

(WGK):

WGK 1: slightly water-endangering.

15.2 Chemical safety as-

sessment:

No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

**Revision Information:** Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Other information: The classification complies with the current EU lists; however, it has been

supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: - On the basis of test data - Calculation Method - Bridging Principle "Substantially simi-

lar mixtures" - Expert Judgement

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Disclaimer:

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