



# Biodegradable Hydraulic Oil HVI 46

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Issue date: 30-9-2009 Revision date: 7-9-2020 Supersedes: 29-1-2015 version: 4.2

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Biodegradable Hydraulic Oil HVI 46  
Product code : 30000BIO

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use  
Use of the substance/mixture : Hydraulic fluids  
Function or use category : Hydraulic fluids and additives

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

MPM International Oil Company  
Cyclotronweg 1  
2629 HN Delft Delft - Nederland  
T +31 (0)15 2514030 - F +31 (0)15 2514031  
[msds@mpmoil.nl](mailto:msds@mpmoil.nl) - [www.mpmoil.nl](http://www.mpmoil.nl)

#### 1.4. Emergency telephone number

Emergency number : +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

| Country        | Official advisory body   | Address                                     | Emergency number | Comment |
|----------------|--|---|------------------|---------|
| Ireland        | National Poisons Information Centre<br>Beaumont Hospital   | Beaumont Hospital Beaumont Road<br>9 Dublin | : +353 1 8379964 |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit,<br>Guy's & St Thomas' Hospital Trust | Avonley Road<br>SE14 5ER London             | +44 20 7188 7188 |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH Annex II

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

After inhalation : Take victim to fresh air, in a quiet place and if necessary take medical advice.  
After skin contact : After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. Wash contaminated clothing before reuse. If irritation persists, consult a specialist.

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|                   |  |
|-------------------|--|
| After eye contact | : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| After ingestion   | : If swallowed, do not induce vomiting: seek medical advice immediately and show this container label.   |

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

No additional information available

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                         |
|--------------------------------|-------------------------|
| Suitable extinguishing media   | : Powder. Foam.         |
| Unsuitable extinguishing media | : High power water jet. |

### 5.2. Special hazards arising from the substance or mixture

|                  |   |
|------------------|---|
| Explosion hazard | : Heat from a fire could result in drum bursting. |
|------------------|---|

### 5.3. Advice for firefighters

|                                |  |
|--------------------------------|--|
| Precautionary measures fire    | : Do not enter fire area without proper protective equipment, including respiratory protection.                              |
| Protection during firefighting | : In case of fire: Wear self-contained breathing apparatus.  |
| Other information              | : Use water spray/stream to protect personnel and to cool endangered containers. Cover liquid spill with foam or sand/earth. |

## SECTION 6: Accidental release measures

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

|                  |  |
|------------------|--|
| General measures | : Keep public away. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Keep away from sources of ignition - No smoking. |
|------------------|--|

#### 6.1.1. For non-emergency personnel

|                      |  |
|----------------------|--|
| Protective equipment | : Wear suitable protective clothing and eye/face protection. |
|----------------------|--|

#### 6.1.2. For emergency responders

|                      |  |
|----------------------|--|
| Protective equipment | : Wear suitable protective clothing and eye/face protection. |
|----------------------|--|

### 6.2. Environmental precautions

Notify authorities if liquid enters sewers or public waters. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

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

|                         |  |
|-------------------------|--|
| For containment         | : Stop leak if safe to do so. Prevent spreading over great surfaces (e.g. by damming or installing oil booms). |
| Methods for cleaning up | : Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel).         |
| Other information       | : Can be slippery on hard, smooth walking area.  |

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : If suction of the immediate vicinity is impossible or insufficient, adequate airing of the working place must be ensured. |
| Hygiene measures              | : When using do not eat, drink or smoke. Avoid all unnecessary exposure. Wash hands before breaks and at the end of work.   |

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

|                            |  |
|----------------------------|--|
| Technical measures         | : Keep only in the original container in a cool, well-ventilated place.  |
| Storage temperature        | : $\geq 65$ °C   |
| Storage area               | : Keep container tightly closed in a cool, well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| Special rules on packaging | : Keep container tightly closed. Keep/Store only in original container.  |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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### 8.2. Exposure controls

#### Technical measures:

Ensure adequate ventilation of the storage area.

#### Personal protective equipment:

Gloves.

#### Hand protection:

Wear suitable gloves. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

#### Eye protection:

Tightly sealed safety glasses.

#### Skin and body protection:

Wear suitable protective clothing, gloves and eye/face protection.

#### Respiratory protection:

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                                 |
|--|---------------------------------|
| Physical state                             | : Liquid                        |
| Colour                                     | : Yellow.                       |
| Odour                                      | : characteristic.               |
| Odour threshold                            | : No data available             |
| pH   | : No data available             |
| Relative evaporation rate (butylacetate=1) | : No data available             |
| Melting point                              | : No data available             |
| Freezing point                             | : -36 °C ASTM D97               |
| Boiling point                              | : No data available             |
| Flash point                                | : 270 °C ASTM D92               |
| Auto-ignition temperature                  | : No data available             |
| Decomposition temperature                  | : No data available             |
| Flammability (solid, gas)                  | : No data available             |
| Vapour pressure                            | : No data available             |
| Relative vapour density at 20 °C           | : No data available             |
| Relative density                           | : No data available             |
| Density                                    | : 915 g/l ASTM D 1298           |
| Solubility                                 | : Water: Negligible.            |
| Log Pow                                    | : No data available             |
| Viscosity, kinematic                       | : 46 mm <sup>2</sup> /s @ 100°C |
| Viscosity, dynamic                         | : No data available             |
| Explosive properties                       | : No data available             |
| Oxidising properties                       | : No data available             |
| Explosive limits                           | : No data available             |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

### 10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

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### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Oxidizing substances.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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|                                   |                  |
|-----------------------------------|------------------|
| LD50 oral rat                     | > 5 g/kg         |
| LD50 dermal rat                   | > 5 g/kg         |
| LC50 Inhalation - Rat             | > 5 mg/l/4h      |
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |
| Aspiration hazard                 | : Not classified |

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|                      |                               |
|----------------------|-------------------------------|
| Viscosity, kinematic | 46 mm <sup>2</sup> /s @ 100°C |
|----------------------|-------------------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |  |
|---|--|
| General   | : Do not allow uncontrolled leakage of product into the environment. Some of the components are biologically degradable with difficulty. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified   |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified   |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

European List of Waste (LoW) code : 13 01 12\* - readily biodegradable hydraulic oils

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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| ADR   | IMDG  |
|---|---|
| <b>14.1. UN number</b>  |   |
| Not applicable  | Not applicable  |
| <b>14.2. UN proper shipping name</b>  |   |
| Not applicable  | Not applicable  |
| <b>14.3. Transport hazard class(es)</b>   |   |
| Not applicable  | Not applicable  |
| <b>14.4. Packing group</b>  |   |
| Not applicable  | Not applicable  |
| <b>14.5. Environmental hazards</b>  |   |
| Dangerous for the environment : No  | Dangerous for the environment : No<br>Marine pollutant : No |
| No supplementary information available  |   |
| <b>14.6. Special precautions for user</b>   |   |
| <b>Overland transport</b><br>No data available  |   |
| <b>Transport by sea</b><br>No data available  |   |
| <b>14.7. Transport in bulk according to Annex II of Marpol and the IBC Code</b><br>Not applicable |   |

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| EUH210                              | Safety data sheet available on request. |

SDS MPM REACH

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*