



**SAFETY DATA SHEET**  
according to Regulation (EC) No 1907/2006  
as amended by Regulation (EC) No 453/2010

**Print date:**  
06/15/2015

**Version:**  
1

**Revision date:**  
06/15/2015

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

**1.1. Product identifier**

**Product trade name:** **BIOSAFE HO 46 XE**

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

**Application**

Hydraulic fluid

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

**Supplier:**

**Binol AB**  
SE-374 82 Karlshamn  
Sweden  
Phone: +46 (0)454 828 00  
[www.binol.com](http://www.binol.com)

**Responsible person:**

**Binol AB**  
SE-374 82 Karlshamn  
Sweden  
Phone: +46 (0)454 828 00  
[www.binol.com](http://www.binol.com)

**National contact:**

**Binol AB**  
Ms. Jenny Porsche  
[jenny.porsche@binol.com](mailto:jenny.porsche@binol.com)

**1.4. Emergency telephone number**

**United Kingdom: 08 448 920 111**  
National Poisons Information Services (24/7)  
**Ireland: 01 837 99 64**  
Poisons information centre of Ireland (24/7)

**SECTION 2: Hazards identification**

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

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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

## 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

Signal Word

**None**

## 2.3. Other hazards

None under normal use

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. Product is a mixture.

### 3.2 Mixture

#### Description of the mixture:

Product is a mixture of: ester, additives.

#### Hazardous ingredients:

Mixture does not contain hazardous ingredients

*Full text of H- and EUH-phrases: see section 16*

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General notes:</b>	No hazards which require special first aid measures.
<b>Following inhalation:</b>	Not hazardous by inhalation.
<b>Following skin contact:</b>	Not hazardous by skin contact.
<b>Following eye contact:</b>	Not hazardous by contact with eyes.
<b>Following ingestion:</b>	Rinse mouth.
<b>Self-protection of the first aider:</b>	First aider needs to protect himself.

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

#### Following inhalation:

<b>Acute:</b>	There are no symptoms or effects reported.
<b>Delayed:</b>	There are no symptoms or effects reported.

#### Following skin contact:

<b>Acute:</b>	There are no symptoms or effects reported.
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**Delayed:** There are no symptoms or effects reported.

**Following eye contact:**

**Acute:** There are no symptoms or effects reported.

**Delayed:** There are no symptoms or effects reported.

**Following ingestion:**

**Acute:** There are no symptoms or effects reported.

**Delayed:** There are no symptoms or effects reported.

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

**Following inhalation:** No data available

**Following skin contact:** No data available

**Following eye contact:** No data available

**Following ingestion:** No data available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam

**Unsuitable extinguishing media:** High volume water jet

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

**Hazardous combustion products:** Carbon monoxide (CO)

**5.3. Advice for firefighters**

Standard procedure for chemical fires.

**SECTION 6: Accidental release measures**

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

**6.1.1 For non-emergency personnel**

**Protective equipment:** Use suitable protective equipment (see also section 8) to prevent any contamination of skin, eyes and personal clothing.

**Emergency procedures:** Consult an expert.

**6.1.2 For emergency responders**

**Protective equipment:** Use suitable protective equipment (see also section 8) to prevent any contamination of skin, eyes and personal clothing

**Emergency procedures:** Consult an expert

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

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

- 6.3.1 For containment:** Covering of the drains.
- 6.3.2 For cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- 6.3.3 Other information:** Clear spills immediately.

### 6.4. Reference to other sections

See also sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures:

- Measures to prevent fire:** Always keep ignition sources and product separated. Use a fire suppression system which is suitable for the facility and the potential hazards.
- Measures to prevent aerosol and dust generation:** Provide sufficient air exchange and/or exhaust in work rooms.
- Measures to protect the environment:** Do not flush into surface water or sanitary sewer system.
- Advice on general occupational hygiene:** Wash hands thoroughly after handling

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

- Technical measures and storage conditions:** Storage at -20 - +40 °C
- Packaging materials:** Store in original package or in dedicated storage tank.
- Requirements for storage rooms and vessels:** Store in accordance with local and national regulations.
- Further information on storage conditions:** No data available

### 7.3. Specific end use(s)

- Recommendations:** See our technical data sheet.
- Industrial sector specific solutions:** See our technical data sheet.
- Exposure scenario(s):** Exposure scenario is not yet available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### **In europe**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In Austria**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In Belgium**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In Bulgaria**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In the Czech Republic**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In Denmark**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In Finland**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In France**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In Germany**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

### **In Hungary**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Italy**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Latvia**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Lithuania**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Luxembourg**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In the Netherlands**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Norway**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Poland**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Portugal**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Romania**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In the Slovak Republic**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Slovenia**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

## In Spain

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

## In Sweden

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

## In the United Kingdom

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

## 8.2. Exposure controls

### 8.2.1 Appropriate engineering controls:

#### Technical measures to prevent exposure:

Ensure adequate ventilation, especially in confined areas.

### 8.2.2 Personal protection equipment:

#### 8.2.2.1 Eye and face protection:

The use of safety glasses is recommended.

#### 8.2.2.2 Skin protection:

#### Hand protection:

The use of chemical resistant gloves is recommended.

#### Other skin protection:

The use of long sleeved protective clothing is recommended.

#### 8.2.2.3 Respiratory protection:

Adequate ventilation is recommended.

#### 8.2.2.4 Thermal hazards:

Product represents no thermal hazards.

### 8.2.3 Environmental exposure controls:

#### Technical measures to prevent exposure:

Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

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

#### a) Appearance

<b>Colour:</b>	Yellow
<b>Physical state:</b>	Liquid
<b>b) Odour</b>	Characteristic
<b>c) Odour threshold</b>	Mild odour
<b>e) Melting point / freezing point (°C)</b>	-50
<b>f) Initial boiling point and boiling range (°C)</b>	No data available
<b>g) Flash point (°C)</b>	250
<b>h) Evaporation rate (BuAc = 1)</b>	No data available
<b>i) Flammability (solid, gas)</b>	No data available
<b>j) Upper/lower flammability or explosive limits</b>	No data available
<b>k) Vapour pressure (kPa)</b>	No data available
<b>l) Vapour density (air=1)</b>	No data available
<b>m) Relative density (g/cm<sup>3</sup>) at (°C)</b>	0.94 20
<b>n) Solubility(ies) in water</b>	Not soluble
<b>o) Partition coefficient: n-octanol/water</b>	No data available
<b>p) Auto-ignition temperature (°C)</b>	No data available
<b>q) Decomposition temperature (°C)</b>	No data available
<b>r) Viscosity (mm<sup>2</sup>/s)</b>	No data available
<b>s) Explosive properties</b>	Product can form explosive mixtures in air.
<b>t) Oxidising properties</b>	Product is not an oxidiser.

## 9.2. Other information

<b>a) Pourpoint (°C)</b>	-50
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage conditions.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Stable under recommended storage conditions.



#### 10.4. Conditions to avoid

None known

#### 10.5. Incompatible materials

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

None under normal use

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

##### Product data:

ATEmix - Oral (mg/kg):	>2000
ATEmix - Dermal (mg/kg):	>2000
ATEmix - Inhalation (mg/l/4 h - vapours):	>20

##### Component data:

#### Skin corrosion/irritation

##### Product data:

Results: No data available

##### Component data:

#### Serious eye damage/irritation

##### Product data:

Results: No data available

##### Component data:

#### Respiratory or skin sensitisation

##### Product data:

Results: No data available

##### Component data:

#### Germ cell mutagenicity

##### Product data:

Results: No data available

Component data:

**Carcinogenicity**

Product data:

Results: No data available

Component data:

**Reproductive toxicity**

Product data:

Results: No data available

Component data:

**Summary of evaluation of the CMR properties**

Product data:

Results: No data available

**STOT - single exposure**

Product data:

Results: No data available

Component data:

**STOT - repeated exposure**

Product data:

Results: No data available

Component data:

**Aspiration hazard**

Product data:

Results: No data available

Component data:

**SECTION 12: Ecological information**

**12.1 Toxicity**

## Acute (short-term) toxicity

### Product data:

LC50 (Fish - 96h):	>100 mg/l
EC50 (Water Flea - 48h):	>100 mg/l
IC50 (Algae - 72h):	>100 mg/l

### Component data:

## Chronic (long-term) toxicity

### Product data:

LC50 (Fish - 96h):	>100 mg/l
EC50 (Water Flea - 48h):	>100 mg/l
IC50 (Algae - 72h):	>100 mg/l

Biodegradation:	No data available
Partition coefficient n-octanol /water (log Kow):	No data available
Bioconcentration factor (BCF):	No data available

### Component data:

## 12.2 Persistence and degradability

### Product data:

Abiotic Degradation:	No data available
Physical- and photo-chemical elimination:	No data available
Biodegradation:	No data available

### Component data:

## 12.3 Bioaccumulative potential

### Product data:

Partition coefficient n-octanol /water (log Kow):	No data available
Bioconcentration factor (BCF):	No data available

### Component data:

## 12.4 Mobility in soil

### Product data:

Known or predicted distribution to environmental compartments:	No data available
Surface tension:	No data available

**Component data:**

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

No data available

**12.7 Additional information**

No data available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Product / Packaging disposal:**

**Packaging data:**

**Recycling:** Use a European return program for empty packaging. For example: [ncg-europe.com](http://ncg-europe.com).

**Product data:**

**Waste codes / waste designations according to LoW:**

<b>As delivered:</b>	13 01 12*
<b>Used:</b>	No data available

**SECTION 14: Transport information**

**14.1. UN number**

Not regulated

**14.2. UN proper shipping name**

Not regulated

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

Not regulated

**14.4. Packing group**

Not regulated

**14.5. Environmental hazards**

Not regulated

**14.6. Special precautions for user**

Not regulated

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not regulated

## SECTION 15: Regulatory information

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

#### EU regulations

Authorisations and/or restrictions on use

#### Authorisations:

**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**

#### **ANNEX XIV - LIST OF SUBSTANCES SUBJECT TO AUTHORISATION**

Product does not contain components as mentioned in this ANNEX.

#### Restrictions on use:

**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**

#### **ANNEX XIII - CRITERIA FOR THE IDENTIFICATION OF PERSISTENT, BIOACCUMULATIVE AND TOXIC SUBSTANCES, AND VERY PERSISTENT AND VERY BIOACCUMULATIVE SUBSTANCES**

Product does not contain components as mentioned in this ANNEX.

#### **ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES**

Product does not contain components as mentioned in this ANNEX.

#### Other EU regulations

**REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents**

Product is not subject to this regulation.

**REGULATION (EC) No 689/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 June 2008 concerning the export and import of dangerous chemicals**

Product does not contain components as mentioned in this regulation.

**COUNCIL REGULATION (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Product does not contain components as mentioned in this regulation.

**REGULATION (EC) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer**

Product does not contain components as mentioned in this regulation.

**REGULATION (EU) No 98/2013 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 January 2013 on the marketing and use of explosives precursors**

Product does not contain components as mentioned in this regulation.

**Commission Decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste (notified under document number C(2000) 1147) (Text with EEA relevance) (2000/532/EC)**

**Waste codes / waste designations according to LoW:**

As delivered: 13 01 12\*

**COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items**

Product does not contain components as mentioned in this regulation.

**National regulations**

**In Austria**

**Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

**In Belgium**

**Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

**In the Czech Republic**

**Product data:**

ACT 350 of 27 October 2011 on chemical substances and mixtures and amending certain Acts

**In Denmark**

**Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

**In Finland**

**Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

**In France**

**Product data:**

**Tableaux de maladies professionnelles:** 36

**Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

**In Germany**

**Product data:**

**Water hazard classes (Wassergefährdungsklassen):** 1(S)

**Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

**In Italy**

disposizioni di normativa vigente: limite di soglia (LTV) ed indicatori biologici di esposizione (IBE) ACGIH 2001  
Protezione dei lavoratori contro i rischi derivanti dall'esposizione ad agenti chimici, fisici e biologici durante il lavoro (DL212 del 30/07/90)

Norme generali per l'igiene sul lavoro (DPR 303 del 19/3/56)

Regolamenti e tabelle sulle malattie professionali nell'industria (DPR 336 del 13/04/94)

D.Lgs. 81/2008 del 9 Aprile 2008 e successive modifiche

Rischi incidenti rilevanti (Seveso bis - DL 334/99)

Norme sugli scarichi (DM 51 del 12/7/90)

Norme sull'inquinamento o atmosferico (DPR del 12/7/90 e del 25/7/91)

Norme per la tutela della acque (DL 152 del 11/5/99)

Norme sullo smaltimento e sul trasporto dei rifiuti pericolosi (DL 22/97 e 389/97)

Norme sul trasporto via terra ADR/RID (recepimento dir. CE 94/55): DM del 04/09/96 e attuazioni

Testo unico su classificazione, imballaggio ed etichettatura sostanza pericolose con recepimento fino alla Directtiva 2004/73/CE (29° adeguamento al progresso tecnico della direttiva 67/548/CE)

Norme per la compilazione della Scheda di Sicurezza con recepimento della direttiva 2001/58/EC

**In Latvia**

**Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In the Netherlands**

##### **Product data:**

##### **Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Poland**

##### **Product data:**

The 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 of the trades and repealing the trades the Regulation repealing Council Regulation (EEC) nr 793/93

the regulation lation (EC) nr1488/94, 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 of the European Parliament and of the Council (EC) nr 1272/2008 on classification, labeling and packaging of substances and mixtures, amending and repealing the Directives 1999/45/EC, Directive 67/548/EEC and amending the Regulation (EC) nr 1907/2006, with changes.

Ordinance of the Minister of Health of 30 grudnia 2004 on safety and health relationship are tied to the existence of chemical agents (Dz.U.2005nr11poz.86), as amended.

The Act of 25 lutego 2011 chemical substances and mixtures (Dz.U.2011nr63poz.322)

Ordinance of the Minister of Health of 20 kwietnia 2012 on the labeling of chemical substances and mixtures, and certain mixtures (Dz.U.2012nr0poz.445)

Ordinance of the Minister of Labour and Social Policy of 29 November 2002 on maximum permissible concentration assumptions Nate assumptions of harmful factors in the working environment (Dz.U.2002nr217poz.1833), as amended The Act of 27 April 2001r.o waste (Dz.U.2001 No. 62 item 628).

Ordinance of the Minister of Environment of 27 September 2001. on waste (Dz.U.Nr112, item 1206).

Regulation (EU) No 453/2010 of 20 May 2010 amending the CYM The 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)

#### **In Portugal**

##### **Component data:**

**Hazardous ingredients:** Mixture does not contain hazardous ingredients

#### **In Sweden**

##### **Product data:**



Kemikalieinspektionens föreskrifter (KIFS 2005:7) om klassificering och märkning av kemiska produkter  
Kemikalieinspektionens föreskrifter (KIFS 2008:2) om kemiska produkter och biotekniska organismer

### Component data:

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other information

### Indication of changes

<b>Version:</b>	1
<b>Revision date:</b>	06/15/2015
<b>Reason for revision:</b>	New Format
<b>Print date:</b>	06/15/2015

### Abbreviations and acronyms

CLP - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  
REACH - Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals

### Key literature references and sources for data

#### Compilation of safety data sheet:

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

#### Amended by:

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance)

### Training advice

The information contained in this safety data sheet must be available to the professional user. The professional user of this product must be adequately informed about the possible hazards of this product. The professional user of this product must be adequately trained in the safe handling and use of chemical products.

### Further information

#### Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. Quaker Chemical Corporation ("Quaker") assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of Quaker.