



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

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Version:
1

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

1.1. Product identifier

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

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

Responsible person:
Binol AB
SE-374 82 Karlshamn
Sweden
Phone: +46 (0)454 828 00
www.binol.com

National contact:
Binol AB
Ms. Jenny Porsche
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

EUH210 - Safety data sheet available on request

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:

None

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

Following inhalation:

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

Following skin contact:

Acute:	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, CO₂, 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

In Austria

In Belgium

In Bulgaria

In the Czech Republic

In Denmark

In Finland

In France

In Germany

In Hungary

In Italy

In Latvia

In Lithuania

In Luxembourg

In the Netherlands

In Norway

In Poland

In Portugal

In Romania

In the Slovak Republic

In Slovenia

In Spain

In Sweden

In the United Kingdom

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

Colour: Yellow

Physical state: Liquid

b) Odour

Characteristic

c) Odour threshold

Mild odour

e) Melting point / freezing point (°C)

-42

f) Initial boiling point and boiling range (°C)

No data available

g) Flash point (°C)

200

h) Evaporation rate (BuAc = 1)

No data available

i) Flammability (solid, gas)

No data available

j) Upper/lower flammability or explosive limits

No data available

k) Vapour pressure (kPa)

No data available

l) Vapour density (air=1)

No data available

m) Relative density (g/cm³) at (°C)

0.92

20

n) Solubility(ies) in water

Not soluble

o) Partition coefficient: n-octanol/water

No data available

p) Auto-ignition temperature (°C)

No data available

q) Decomposition temperature (°C)

No data available

r) Viscosity (mm²/s)

No data available

s) Explosive properties

Product can form explosive mixtures in air.

t) Oxidising properties

Product is not an oxidiser.

9.2. Other information

a) Pourpoint (°C)

-42

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.

Product data:

Waste codes / waste designations according to LoW:

As delivered: 13 01 12*

Used: 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:

In Belgium

Component data:

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:

In Finland

Component data:

In France

Product data:

Tableaux de maladies professionnelles: 36

Component data:

In Germany

Product data:

Water hazard classes (Wassergefährdungsklassen): 1(S)

Component data:

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 atmosferico (DPR del 12/7/90 e del 25/7/91)

Norme per la tutela delle 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 sostanze pericolose con recepimento fino alla Direttiva 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:

In the Netherlands

Product data:

Component data:

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:

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

Version:	1
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Reason for revision:	New Format
Print date:	06/04/2015

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.