

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Trade name**

Hydraulic oil ISO 46

Article No.

36-9123, 36-9124, 36-9125

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

hydraulic oil

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

BILTEMA SWEDEN AB

Street address

Garnisonsgatan 26, 2nd FL

SE-254 66 Helsingborg

Sweden

Telephone

+46 77 520 00 00

Email

kundservice@biltema.com

Web site

www.biltema.se

1.4. Emergency telephone number

Giftinformationscentralen

Available outside office hours

No

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2. Label elements

The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.

2.3. Other hazards

No known effects or dangers.

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrases M factor acute M factor chronic	Note
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4 265-090-8 01-2119488706-23 649-454-00-7	75 - 100%	-	- - -	-
Residual oils (petroleum), solvent-dewaxed	64742-62-7 265-166-0 01-2119480472-38 649-471-00-X	≥1 - <10%	-	- - -	-
2,6-di-tert-butylphenol	128-39-2 204-884-0 01-2119490822-33 -	≥0.1 - <0.25%	Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1	H315, H400, H410 M-acut=1 M-chro=1	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

DMSO<3%

SECTION 4: First aid measures**4.1. Description of first aid measures**

Call a doctor if you feel unwell.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a doctor if you feel unwell.

Skin contact

In case of skin contact, rinse immediately with warm water.

In case of prolonged skin irritation, consult a doctor.

Eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Ingestion

Patients who are unconscious or dizzy should be placed in a supine position.

IF SWALLOWED: Immediately call a doctor.

Do NOT induce vomiting.

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46

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

No known symptoms to date.

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

First Aid, decontamination, treatment of symptoms.

Chemical pneumonia can occur up to 24 hours after ingestion, or if the stomach contents enter the lungs during vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam , Powder , Carbon dioxide , Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.

Personal precautions

Provide adequate ventilation.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Eliminate all ignition sources if safe to do so.

Safe handling: see section 7 See section 8.3 of the safety data sheet.

6.2. Environmental precautions

Discharge into the environment must be avoided.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of. Thoroughly clean contaminated surfaces.

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

However the usual precautions used for chemical products should be respected.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Store in a cool dry place.

Keep away from foodstuffs, beverages and feed

Avoid high temperatures or direct sunlight.

7.3. Specific end use(s)

No data available

Other

Handling

hydraulic oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls

However the usual precautions used for chemical products should be respected.

Eye / face protection

Eye glasses

Hand protection

NBR (Nitrile rubber)

Other skin protection

Suitable protective clothing:

Respiratory protection

Avoid breathing vapours.

Usually no personal respirative protection necessary.

Always follow current procedures for handling the product. Use appropriate respiratory protection.

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

light brown

Odour

No data available

Odour threshold

not determined

Melting point / freezing point

not determined

Boiling point or initial boiling point and boiling range

not determined

Flammability

not determined

Lower and upper explosion limit

not determined

Flash point

230 °C

Method

ASTM D 92

Auto-ignition temperature

Not applicable

Decomposition temperature

not determined

pH

Not applicable

Kinematic viscosity

45,12 mm²/s @ 40 °C

Method

ASTM D 445

Viscosity, dynamic

not determined

Solubility

not determined

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46**Water solubility**

not determined

Partition coefficient n-octanol/water

not determined

Vapour pressure878,4 kg/m³ @ 15 °C**Method**

ASTM D 4052

Density and/or relative density

not determined

Relative density

not determined

Relative vapour density

not determined

Evaporation Rate

not determined

Explosive properties

not determined

Oxidising properties

not determined

9.2. Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No known hazardous reactions.

10.2. Chemical stability

No known hazardous reactions.

10.3. Possibility of hazardous reactions

Oxidizing agent

10.4. Conditions to avoid

No known hazardous reactions.

10.5. Incompatible materials

Avoid contact with oxidizing agents and contact with strong acids.

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46

10.6. Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
2,6-di-tert- butylphenol 128-39-2 / 204- 884-0	LD50	8697 mg/kg	oral	-	Rat	-
2,6-di-tert- butylphenol 128-39-2 / 204- 884-0	LD50	> 2000 mg/kg	Dermal	-	Rabbit	-
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 / 265-090-8	LD50	> 5000 mg/kg	oral	-	Rat	OECD 401
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 / 265-090-8	LD50	> 5000 mg/kg	Dermal	-	Rabbit	OECD 402
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 / 265-090-8	LC50	> 5,53 mg/l	inhalative	4h	Rat	OECD 403
2,6-di-tert- butylphenol 128-39-2 / 204- 884-0	LD50	8697 mg/kg	oral	-	Rat	-
2,6-di-tert- butylphenol 128-39-2 / 204- 884-0	LD50	> 2000 mg/kg	Dermal	-	Rabbit	-

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Irritation

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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

Genotoxicity

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

Mutagenicity

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

Carcinogenicity

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

Repeated dose toxicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Toxicity in case of inhalation

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

Toxicity in case of skin contact

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

Toxicity in case of ingestion

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

11.2. Information on other hazards

Endocrine disrupting properties

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

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46**SECTION 12: Ecological information****12.1. Toxicity****Acute fish toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 / 265- 090-8	LL50:	> 100 mg/l	96h	Pimephales promelas (fathead minnow)	OECD 203

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 / 265- 090-8	NOEL	10 mg/l	21d	Daphnia magna (Big water flea)	OECD 211
Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4 / 265- 090-8	EL50	> 10000 mg/l	48h	Daphnia magna (Big water flea)	OECD 202

12.2. Persistence and degradability**Persistence and degradability**

not determined The substance does not meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3. Bioaccumulative potential**Bioaccumulative potential**

not determined

12.4. Mobility in soil**Mobility**

not determined

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

not determined

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46

12.6. Endocrine disrupting properties

not determined

12.7. Other adverse effects
Other adverse effects

not determined

Other

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code	Description
13 01 10*	mineral based non-chlorinated hydraulic oils
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Other

Not applicable

According to Regulation (EC) No 1907/2006

Hydraulic oil ISO 46**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008

[CLP] Safety information according to Regulation (EC) No. 1907/2006 (REACH), Article 32

15.2. Chemical safety assessment

No data available

SECTION 16: Other information**Phrase meaning**

Skin Irrit. 2 - Skin irritation, hazard category 2

Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1

Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1

H315 Causes skin irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.