

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 1/6

Hydraulic oil ISO 22, 32, 37, 46, 68, 100, 150

Revision 1

Revision date 2012-12-04

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

1.1. Product identifier

Product name Hydraulic oil ISO 22, 32, 37, 46, 68, 100, 150

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

Description Hydraulic oils 22, 32, 46, 68, 100, 150 are full anti-wear hydraulic fluids designed and developed to be used in industrial power transmission and control systems. Oils manufactured from heat stable high viscosity index, solvent refined base oils into which are incorporated additives for anti-wear performance, oxidation resistance, anti foaming agents and corrosion protection.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Main hazards No Significant Hazard

2.2. Label elements

Risk phrases The product is classified in accordance with 67/548/EEC.
No Significant Hazard.

2.3. Other hazards

Other hazards No other known hazards.

Further information

DMSO-content: <3% (according to IP346).
Hydraulic oils 22, 32, 46, 68, 100, 150 are formulated to exceed the following applications: DIN 51524, part II; Sperry Vickers M-2950-S; Sperry Vickers M-2950 and I-286-S; Vickers Vane Pump (IP281); U.S. Steel 127; Thyssen-TH N-256132; SEB 181.222; VDMA 24318; AFNOR NF E 48-600; SIS SS 155434; HOESCH HWN 2333; Denison filterability TP 02100.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
BASE OLAZ		74869-22-0	278-012-2		90 - 100%	

SECTION 4: First aid measures

Hydraulic oil ISO 22, 32, 37, 46, 68, 100, 150

Revision 1

Revision date 2012-12-04

4.1. Description of first aid measures

Inhalation	Do not breathe dust or vapour.
Eye contact	Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

Skin contact	May cause irritation to skin and eyes.
Ingestion	DO NOT INDUCE VOMITING. Ingestion may cause nausea and vomiting.

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

Skin contact	Wash with soap and water.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

Further information

	No action shall be taken involving any personal risk or without suitable training.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use an extinguishing agent suitable for the surrounding fire. Carbon oxides. Carbon dioxide (CO ₂). Sand.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes. Do not allow runoff water to enter sewers or drains.
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5.3. Advice for firefighters

	Proper protective equipment including breathing apparatus must be worn when approaching a fire in a confined space. Do NOT use water jet.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	No action shall be taken involving any personal risk or without suitable training. Adopt best Manual Handling considerations when handling, carrying and dispensing. Ensure adequate ventilation of the working area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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6.4. Reference to other sections

	Please always refer to sections 2 and 16.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing. Temperature: 0 - 50 °C.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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7.3. Specific end use(s)

Hydraulic oil ISO 22, 32, 37, 46, 68, 100, 150

Revision 1

Revision date 2012-12-04

7.3. Specific end use(s)

Please use this product as indicated in sections 1 and 2. If you are uncertain please contact us immediately as not using the product in the right way could be dangerous for your health and machinery.

Further information

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

BASE OLAZ	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 5
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 10

8.2. Exposure controls**8.2.1. Appropriate engineering controls**

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Wear chemical protective clothing.

Eye / face protection

Approved safety goggles.

Skin protection - Handprotection

Chemical resistant gloves (PVC).

Respiratory protection

Wear: Suitable respiratory equipment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Hydraulic oil ISO 22, 32, 37, 46, 68, 100, 150

Revision 1

Revision date 2012-12-04

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Amber
Odour	Mild
pH	Not applicable.
Melting point	< -20
Freezing Point	< -20
Boiling point	> 150
Flash point	> 200
Evaporation rate	1
Flammability limits	No data available
Vapour Flammability	No data available
Vapour pressure	< 0.5
Vapour density	No data available
Relative density	0.875 - 0.91
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	> 300
Viscosity	No data available
Explosive	Stable under normal conditions
Oxidising	Not considered oxidising
Solubility	Insoluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

Further information

	Viscosity corresponds with the product name. The figures in this section are for guidance only please always use them in conjunction with the technical data sheet.
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SECTION 10: Stability and reactivity

10.1. Reactivity

	Stable under normal temperature conditions and recommended use.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Do not mix the product with other materials.
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10.4. Conditions to avoid

	Store at temperatures between 0 °C and 50 °C.
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10.5. Incompatible materials

	Strong oxidising agents.
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10.6. Hazardous decomposition products

	Combustion or thermal decomposition could liberate carbon oxides and other toxic gases or vapours.
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Hydraulic oil ISO 22, 32, 37, 46, 68, 100, 150

Revision 1

Revision date 2012-12-04

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Repeated or prolonged exposure	GENERAL INFORMATION. This product has low toxicity. Only large volumes may have adverse impact on human health.
	May cause sensitisation by skin contact.
	May cause temporary eye irritation.
	Unlikely to be hazardous by inhalation because of the low vapour pressure of the substance at ambient temperature.
Repeated or prolonged exposure	Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis and skin cancer.

11.1.4. Toxicological Information

BASE OLAZ	Inhalation Rat LC50/30min: >5.53 Oral Rat LD50: >5000	Dermal Rat LD50: >2000
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Information given is based on data on the components and the , Information given is based on data on the components and the toxicology of similar products.

SECTION 12: Ecological information**12.1. Toxicity**

	No data available
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12.2. Persistence and degradability

	The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic.
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12.3. Bioaccumulative potential

	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
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12.4. Mobility in soil

	The product is non-volatile. The product is insoluble in water and will spread on the water surface.
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12.5. Results of PBT and vPvB assessment

	Not applicable.
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12.6. Other adverse effects

	May cause long-term adverse effects in the environment.
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Further information

	Information given is based on data on the components and the toxicology of similar products.
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SECTION 13: Disposal considerations**13.1. Waste treatment methods**

	Waste Code : 13 XX XX OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19) Code given as a guidance only it could vary from different products and the way they were used.
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General information

	Dispose of in compliance with all local and national regulations.
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Disposal of packaging

	We recycle 205L and 1000L packaging.
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SECTION 14: Transport information**ADR/RID**

	The product is not classified as dangerous for carriage.
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IMDG

	The product is not classified as dangerous for carriage.
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Hydraulic oil ISO 22, 32, 37, 46, 68, 100, 150

Revision 1

Revision date 2012-12-04

IATA	
	The product is not classified as dangerous for carriage.

Further information

	The product is not classified as dangerous for carriage.
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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

	UK Regulatory References. Health and Safety at Work Act 1974. Statutory Instruments. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I. 2009 No. 716). Approved Code Of Practice. Safety Data Sheets for Substances and Preparations. Guidance Notes. Workplace Exposure Limits EH40. EU Legislation. Dangerous Preparations Directive 1999/45/EC. Dangerous Substance Directive 67/548/EEC.
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15.2. Chemical safety assessment

	No chemical safety assessment has been carried out.
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SECTION 16: Other information**Further information**

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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