

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.03.2014

Version number 6

Revision: 18.03.2014

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

- 1.1 Product identifier
- Trade name: **Vetus Hydraulic Oil HT**
- Article number: 99.40.10
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 - SU21 Consumer uses: Private households / general public / consumers
- Sector of Use
 - PC17 Hydraulic fluids
 - PROC2 Use in closed, continuous process with occasional controlled exposure
 - PROC8a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
 - PROC8b Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
 - PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems
- Product category
- Process category
- Environmental release category
- Application of the substance / the mixture
 - ERC9a Wide dispersive indoor use of substances in closed systems
 - ERC9b Wide dispersive outdoor use of substances in closed systems
- 1.3 Details of the supplier of the safety data sheet
 - Hydraulic fluid
 - VETUS BV
- Manufacturer/Supplier:
- Further information obtainable from:
- 1.4 Emergency telephone number: +31 (0)546 818165 (9 AM to 4 PM, Monday to Friday)

* 2 Hazards identification

- 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.
 - Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
 - Information concerning particular hazards for human and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- 2.2 Label elements
- Labelling according to EU guidelines: Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- 2.3 Other hazards
- Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

* 3 Composition/information on ingredients

- 3.2 Mixtures
- Description: Highly refined mineral oils and additives.

· Dangerous components:

CAS: 68649-42-3	zinc-alkyl-dithiophosphate	0.1-1.0%
EINECS: 272-028-3	<input checked="" type="checkbox"/> Xi R41; <input checked="" type="checkbox"/> N R51/53	
	<input checked="" type="checkbox"/> Eye Dam. 1, H318; <input checked="" type="checkbox"/> Aquatic Chronic 2, H411	

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- **Additional information:** (Contd. of page 1)
The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.
For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air, consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** If swallowed or in case of vomiting, danger of entering the lungs.

* 5 Firefighting measures

- **5.1 Extinguishing media** Suitable extinguishing agents: CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters** Wear self-contained respiratory protective device.
Wear fully protective suit.

6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Remove from the water surface (e.g. skim or suck off).
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **6.4 Reference to other sections**

7 Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
Avoid the formation of oil haze.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:** Store only in the original receptacle.
- **Requirements to be met by storerooms and receptacles:** Not required.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

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- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
- Additional information:
- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
- Respiratory protection:
- Protection of hands:

Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter. The lists valid during the making were used as basis.

Wash hands before breaks and at the end of work.
Not required.



Wear gloves for the protection against chemicals according to EN 374.

- Material of gloves

Oil resistant gloves
Nitrile rubber, NBR
PVC gloves

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed.

Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Goggles recommended during refilling

Protective work clothing

- Eye protection:
- Body protection:

* 9 Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General information

- Appearance:
- Form:
- Colour:
- Odour:

Fluid
Yellow
Characteristic

- Change in condition

- Melting point/Melting range:
- Boiling point/Boiling range:
- Drip point:
- Pour point

Undetermined.
Undetermined.
-30 °C (ASTM D97)

- Flash point:

> 110 °C

- Flammability (solid, gaseous):

Not applicable.

- Self-igniting:

Product is not selfigniting.

- Danger of explosion:

Product does not present an explosion hazard.

- Explosion limits:

Lower:

Upper:

0.6 Vol %
7.0 Vol %

- Density at 20 °C:

0.873 g/cm³

- Solubility in / Miscibility with water:

Not miscible or difficult to mix.

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
40 °C

46,0 mm²/s (ASTM D445)

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· Solvent content:	0.0 %
· Organic solvents:	No further relevant information available.
· 9.2 Other information	

10 Stability and reactivity

- 10.1 Reactivity
 - 10.2 Chemical stability
 - Thermal decomposition / conditions to be avoided:
 - 10.3 Possibility of hazardous reactions
 - 10.4 Conditions to avoid
 - 10.5 Incompatible materials:
 - 10.6 Hazardous decomposition products:
- To avoid thermal decomposition do not overheat.
- Reacts with strong oxidizing agents.
- No further relevant information available.
- No further relevant information available.
- No dangerous decomposition products known.

*** 11 Toxicological information**

- 11.1 Information on toxicological effects
 - Acute toxicity:
 - Primary irritant effect:
 - on the skin:
 - on the eye:
 - Sensitization:
 - Additional toxicological information:
- No irritant effect.
- No irritating effect.
- No sensitizing effects known.
- The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
- When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

*** 12 Ecological information**

- 12.1 Toxicity
 - Aquatic toxicity:
 - 12.2 Persistence and degradability
 - Other information:
 - 12.3 Bioaccumulative potential
 - 12.4 Mobility in soil
 - Ecotoxicological effects:
 - Remark:
- No further relevant information available.
- No further relevant information available.
- The product is difficultly biodegradable.
- No further relevant information available.
- No further relevant information available.

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

- Additional ecological information:
 - General notes:
 - 12.5 Results of PBT and vPvB assessment
 - PBT:
 - vPvB:
 - 12.6 Other adverse effects
- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Not applicable.
- Not applicable.
- No further relevant information available.

13 Disposal considerations

- 13.1 Waste treatment methods
 - Recommendation
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
13 01 10*	mineral based non-chlorinated hydraulic oils

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- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

*14 Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	-

15 Regulatory information

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

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H318 Causes serious eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- R41 Risk of serious damage to eyes.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing MSDS:

Product safety department.

Contact:

Product safety department

Abbreviations and acronyms:

- RtD: Règlement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organization
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- 67/548/EEC
- 99/45/EEC
- EC/453-2010

Sources

