

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.03.2025

Version Nr.: 12 (replaces version 11)

Revision: 27.03.2025

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

- **1.1 Product identifier**
- **Trade name:** **ECOSURE EAF 32**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
 - SU2b Offshore industries
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category**
 - PC17 Hydraulic fluids
 - PC24 Lubricants, greases, release products
- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
- **Environmental release category**
 - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
 - ERC7 Use of functional fluid at industrial site
- **Application of the substance / the mixture** BIODEGRADABLE HYDRAULIC OIL
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 - BENJN.R.VICKERS & SONS LTD.
 - 6 Clarence Road
 - Leeds
 - LS10 1ND
 - United Kingdom
- **Further information obtainable from:** Product safety department: msds@vickers-oil.com
- **1.4 Emergency telephone number:**
 - During normal opening times 08:30- 16:30 UK : +44 (0)113 386 7654
 - All other times: +44 (0) 1865 407333

SECTION 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.
- **2.2 Label elements**
- **Hazard pictograms** None
- **Signal word** None
- **Hazard statements** None
- **Additional information:**
 - Safety data sheet available on request.

(Contd. on page 2)

Safety data sheet

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Revision: 27.03.2025

Trade name: **ECOSURE EAF 32**

(Contd. of page 1)

2.3 Other hazards

Endocrine Disruption- Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine Disruption- Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

EC number: 700-184-9	Pentadecane, 7-methylene-, mixed with 1-tetradecene, dimers and trimers, hydrogenated	25-50%
	 Asp. Tox. 1, H304	

• **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 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:** If symptoms persist consult doctor.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Sand

(Contd. on page 3)

Safety data sheet

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Printing date 27.03.2025

Version Nr.: 12 (replaces version 11)

Revision: 27.03.2025

Trade name: **ECOSURE EAF 32**

(Contd. of page 2)

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

In case of fire, the following can be released:

Carbon Dioxide (CO₂)

Carbon monoxide (CO)

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Not required.

· **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).

· **6.4 Reference to other sections**

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.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** No special measures required.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Do not heat plastic containers above 60 °C

Do not store in direct sun light.

· **Information about storage in one common storage facility:** Not required.

· **Information about storage conditions:** Use within 5 years of manufacture.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** Not required.

(Contd. on page 4)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.03.2025

Version Nr.: 12 (replaces version 11)

Revision: 27.03.2025

Trade name: **ECOSURE EAF 32**

(Contd. of page 3)

· **Hand protection**

Oil resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of 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**

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

· **Eye/face protection** Safety glasses with side shields (EN 166)

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Light yellow

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

> 175 °C

· **Decomposition temperature:**

Not determined.

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity at 40 °C**

32 cSt

· **Dynamic:**

Not determined.

· **Solubility**

· **water:**

Not miscible or difficult to mix.

· **Partition coefficient n-octanol/water (log value)**

Not determined.

· **Vapour pressure:**

Not determined.

· **Density and/or relative density**

· **Density at 15 °C:**

0.875 g/cm³

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

(Contd. on page 5)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.03.2025

Version Nr.: 12 (replaces version 11)

Revision: 27.03.2025

Trade name: **ECOSURE EAF 32**

(Contd. of page 4)

· 9.2 Other information

· Appearance:

· Form: Oily

· Important information on protection of health and environment, and on safety.

· Ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· Organic solvents: 0.0 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives None

· Flammable gases None

· Aerosols None

· Oxidising gases None

· Gases under pressure None

· Flammable liquids None

· Flammable solids None

· Self-reactive substances and mixtures None

· Pyrophoric liquids None

· Pyrophoric solids None

· Self-heating substances and mixtures None

· Substances and mixtures, which emit flammable gases in contact with water None

· Oxidising liquids None

· Oxidising solids None

· Organic peroxides None

· Corrosive to metals None

· Desensitised explosives None

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

· **10.4 Conditions to avoid** No further relevant information available.

· **10.5 Incompatible materials:** No further relevant information available.

· **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

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(Contd. on page 6)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.03.2025

Version Nr.: 12 (replaces version 11)

Revision: 27.03.2025

Trade name: **ECOSURE EAF 32**

(Contd. of page 5)

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **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.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** 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.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

LC50/96h	>1,000 mg/l (Brachidanio Rerio) (OECD 203)
EC50/72h	>1,000 mg/l (S.Capricor) (OECD 201)
LC50/48h	>1,000 mg/l (Daphnia Magnia) (OECD 202)

Pentadecane, 7-methylene-, mixed with 1-tetradecene, dimers and trimers, hydrogenated

LC50/96h	>0.12 mg/l (fish)
EC50/48h	>0.12 mg/l (aquatic invertebrates)
EC50/72h	>0.12 mg/l (algae)

- **12.2 Persistence and degradability** Biodegradable according to OECD 301B
- **Other information:**
This product and its components have been evaluated by independent laboratories. Using these test results, Vickers Oils has determined that it meets the VGP definition of an Environmentally Acceptable Lubricant.
- **12.3 Bioaccumulative potential**
The product is biodegradable according to OECD 301B, therefore no potential for bioaccumulation.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** The product can therefore be classed as practically Non-Toxic.

(Contd. on page 7)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.03.2025

Version Nr.: 12 (replaces version 11)

Revision: 27.03.2025

Trade name: **ECOSURE EAF 32**

(Contd. of page 6)

· **Additional ecological information:**

· **General notes:**

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.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **European waste catalogue**

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 01 00	waste hydraulic oils
13 01 12*	readily biodegradable hydraulic oils

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, ADN, IMDG, IATA**

Not hazardous for transport

· **14.2 UN proper shipping name**

· **ADR**

Not hazardous for transport

· **ADN, IMDG, IATA**

Not hazardous for transport

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class**

Not hazardous for transport

· **14.4 Packing group**

· **ADR, IMDG, IATA**

Not hazardous for transport

· **14.5 Environmental hazards:**

· **Marine pollutant:**

No

· **14.6 Special precautions for user**

Not applicable.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

Not dangerous according to the above specifications.

· **UN "Model Regulation":**

Not hazardous for transport

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(Contd. on page 8)

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.03.2025

Version Nr.: 12 (replaces version 11)

Revision: 27.03.2025

Trade name: **ECOSURE EAF 32**

(Contd. of page 7)

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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

SECTION 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**

H304 May be fatal if swallowed and enters airways.

· **Department issuing SDS:**

Product safety department
msds@vickers-oil.com

· **Contact:**

Emergency 24 hrs Telephone numbers;

Europe (English) +44 1865 407333

Europe (English, Turkish) +44 1235 239670

Turkey (English, Turkish) 0800 621 2139 (toll-free, Turkey only)

Middle East / Africa (English) +44 1235 239671

Americas (English, Spanish, Portuguese) +1 215 207 0061 Americas (English) +1 202 464 2554

Mexico (English, Spanish) +52 555 004 8763

Brazil (Portuguese, Spanish, English) +55 11 3197 5891

Chile (English, Spanish) +56 225 829 336

Colombia (English, Spanish) +57 601 508 7337

Argentina (English, Spanish) +54 11 5984 3690

Asia-Pacific (English, Japanese, Mandarin) +65 3158 1074

Asia-Pacific (English) +65 3165 2217

(Contd. on page 9)

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 27.03.2025

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Revision: 27.03.2025

Trade name: ECOSURE EAF 32

(Contd. of page 8)

China (English , Mandarin) 400 120 6011 (toll-free, China only)

China (Mainland) (English, Mandarin) 0532 8388 9090

Taiwan (English, Mandarin) +886 2 8793 3212

Japan (English, Japanese) 0120 015 230 (toll-free, Japan only)

· **Version number of previous version: 11**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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 Harmonised 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

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