



# Eni OSO 32 FF

Material number 628

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 7.5.2024  
Version: 9.1  
Replaces version: 9.0  
Language: en-DE  
Date of print: 8.5.2024

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

### 1.1 Product identifier

Trade name: Eni OSO 32 FF

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

General use: Hydraulic oil, Functional fluids

### 1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: 97080 Würzburg

Germany

E-mail: info.wuerzburg@enilive.com

Telephone: +49 (0)931-90098-0

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Department responsible for information:

Application Engineering & Product Management (AEPM)

Telephone: +49 (0)931-90098-0

E-mail: technik.wuerzburg@enilive.com

### 1.4 Emergency telephone number

GIZ-Nord, Göttingen

Telephone: +49 (0)551-19240

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

### 2.2 Label elements

#### Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

#### Special labelling

EUH210

Safety data sheet available on request.



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### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.  
In case of heating/With exposure to water, product will release hydrogen sulfide.  
Information about hydrogen sulfide: Extremely flammable gas. Fatal if inhaled. Very toxic to aquatic life.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product 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% (w/w) or higher. The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: A mixture of mineral oil and additives.

Additional information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346. In case of heating/With exposure to water, product will release hydrogen sulfide. The maximum workplace exposure limits are, where necessary, listed in section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information: Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin reactions, consult a physician.  
Following fire: Immerse in cold water for a prolonged period. Sterile covering. Immediately get medical attention.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After swallowing: Rinse mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

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

In case of inhalation:  
Overheating released mist or vapours can irritate the respiratory tracts.  
In case of prolonged exposure: Fatigue, weakness, headache, drowsiness, nausea, vomiting, visual difficulties.

In case of ingestion: Irritation, nausea, discomfort, gastrointestinal complaints.

After contact with skin: Hot product can cause severe burns.

After eye contact: Causes temporarily: Redness, irritation.



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

Treat symptomatically.  
It can take hours before symptoms of poisoning show up following exposure.  
In case of inhalation (hydrogen sulfide): Take to a hospital immediately.  
Injection through the skin is a major medical emergency due to contact with a high pressure product. Take to a hospital immediately.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, sand, carbon dioxide.  
In case of large fires: Water spray jet, foam.

Extinguishing media which must not be used for safety reasons:

Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Combustible.  
May form dangerous gases and vapours in case of fire.  
Furthermore, there may develop: Pyrolysis products, sulphur oxides, hydrogen sulfide, nitrogen oxides (NO<sub>x</sub>), aldehydes, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Cool endangered containers with water jetspray. Move undamaged containers from immediate hazard area if it can be done safely.  
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

Do not breathe mist/vapours/spray. Avoid oil mist formation. Provide adequate ventilation. Eliminate all ignition sources if safe to do so. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Do not get in eyes, on skin, or on clothing. Keep unprotected people away.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. If necessary notify appropriate authorities.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
Make sure spills can be contained, e.g. in sump pallets or kerbed areas.  
Never return spills in original containers for re-use.  
Clean contaminated articles and floor according to the environmental legislation.



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Additional information: Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid oil mist formation. Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Don't put cleaning rags fouled by oil into trousers pockets.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take action to prevent static discharges.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.  
Keep container dry. Keep only in the original container.  
Protect from heat and direct sunlight.  
Store containers in upright position.

Hints on joint storage:

Keep away from food, drink and animal feedingstuffs.  
Do not store together with: Strong oxidizing agents.

Storage class:

10 = Combustible liquids, unless storage class 3

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
7783-06-4	Hydrogen sulphide	Europe: IOELV: STEL	14 mg/m <sup>3</sup> ; 10 ppm
		Europe: IOELV: TWA	7 mg/m <sup>3</sup> ; 5 ppm
		Germany: TRGS 900 Kurzzeit	14,2 mg/m <sup>3</sup> ; 10 ppm
		Germany: TRGS 900 Langzeit	7,1 mg/m <sup>3</sup> ; 5 ppm

### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.



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### Personal protection equipment

#### Occupational exposure controls

- Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Recommended: Combination filtering device (DIN EN 141).  
In case of release of hydrogen sulfide: Wear a full face respirator conforming to EN 136/140/145 with Type B filter or better.  
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.
- Hand protection: Protective gloves according to DIN EN 374.  
Glove material: Nitrile rubber (NBR), PVC  
Breakthrough time:  $\geq 240$  min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1:2022.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures:  
Do not breathe mist/vapours/spray. Avoid oil mist formation. Take off contaminated clothing and wash it before reuse. Do not get in eyes, on skin, or on clothing.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  
Don't put cleaning rags fouled by oil into trousers pockets.

#### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Yellow-brown, clear
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flammability:	This product is non-flammable.
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	224 °C (ASTM D 92)
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	at 40 °C: 32 mm <sup>2</sup> /s (ASTM D 445)
Water solubility:	Insoluble, immiscible
Partition coefficient: n-octanol/water:	Not applicable
Vapour pressure:	at 20 °C: 0,1 hPa (Mineral oil, ASTM D 5191, CONCAWE, 2010)
Density:	at 15 °C: 0,875 g/mL (ASTM D 4052)
Vapour density:	No data available
Particle characteristics:	Not applicable



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### 9.2 Other information

Explosive properties:	Explosion limits (Aerosol): $\geq 45 \text{ g/m}^3$
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	Solidification point: $-27 \text{ }^\circ\text{C}$ (ASTM D 97)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

In case of heating/With exposure to water, product will release hydrogen sulfide.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents. Risk of fire!

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Avoid electrostatic charging.

### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

	Hydrogen sulfide.
Thermal decomposition:	No data available



## SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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 to the respiratory tract: Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity/Genotoxicity: 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.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (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

### Symptoms

In case of inhalation:

Overheating released mist or vapours can irritate the respiratory tracts.

In case of prolonged exposure: Fatigue, weakness, headache, drowsiness, nausea, vomiting, visual difficulties.

In case of ingestion: Irritation, nausea, discomfort, gastrointestinal complaints.

After contact with skin: Hot product can cause severe burns.

After eye contact: Causes temporarily: Redness, irritation.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Daphnia toxicity:  
EC50: > 100 mg/L (OECD 211)  
Algae toxicity:  
NOEC: 100 mg/L/21d

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)



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### 12.2 Persistence and degradability

Further details: Biodegradation: 31%/28d (Exxon, 1995). According to OECD criteria the product is not readily biodegradable but inherently biodegradable. Data apply to the main component.

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
Not applicable

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

### 12.6 Endocrine disrupting properties

None

### 12.7 Other adverse effects

General information: Product is not soluble in water, and floats on water.  
Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 13 02 05\* = Mineral-based non-chlorinated engine, gear and lubricating oils  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter into ground-water, surface water or drains.

#### Package

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself.  
Empty containers may contain flammable product residues. Do not cut, weld, bore, burn or incinerate emptied containers unless they have been cleaned and declared safe.  
Empty containers should be disposed of in accordance with local regulations.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:  
not applicable





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### 14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:

Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:

not applicable

### 14.5 Environmental hazards

Dangerous for the environment:

Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG:

no

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Further regulations, limitations and legal requirements:

No data available

#### National regulations - EC member states

##### Labelling of packaging with <= 125mL content

Hazard statements: EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

No data available

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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### SECTION 16: Other information

Reason of change: **Material number**  
Date of first version: **8.8.2022**  
Department issuing data sheet:  
**see section 1: Department responsible for information**

#### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DIN: German Institute for Standardization  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
OEL: Occupational Exposure Limit Value  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
PVC: Polyvinyl chloride  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
TLV: Threshold Limit Value  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative  
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

Most recent product information is available at:  
<http://sumdat.net/yegmsnda>

