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

1.1 Product identifier

Trade name: Eni PRECIS HLP 22

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

General use: Hydraulic oil

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
Telefax: +49 (0)931-98442

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.

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 hydrocarbons and additives.

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119489969-06-xxxx EC No. 309-877-7 CAS 101316-72-7	Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated not classified	55 - 65 %
REACH 01-2119487067-30-xxxx EC No. 265-091-3 CAS 64741-89-5	Distillates (petroleum), solvent-refined light paraffinic Asp. Tox. 1; H304.	30 - 40 %

Full text of H- and EUH-statements: see section 16.

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. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. Seek medical attention if problems persist.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician. Following fire: Apply bandage with sterile gauze.

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 immediately and drink plenty of 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:
Mist or vapours released by overheating may cause irritation of the respiratory tract.
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: Direct contact with eyes may cause temporary irritation.

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 due to contact with a high pressure product is a major medical emergency. Take to a hospital immediately.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, 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.
Vapours are heavier than air, spread along floors and form explosive mixtures with air.
Furthermore, there may develop: Pyrolysis products, sulphur oxides, hydrogen sulfide, nitrogen oxides (NOx), aldehydes, metallic oxides, phosphorus oxides, 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: Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely.
Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

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. Avoid contact with skin, eyes, and clothing. Keep unprotected people away.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.
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.

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. Do not breathe mist/vapours/spray. 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.

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:
Store container tightly closed in a dry and cool place.
Store only in original container.
Make sure spills can be contained, e.g. in sump pallets or kerbed areas.
Protect from heat and direct sunlight.

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

Storage class: 10 = Combustible liquids that cannot be assigned to any of the above storage classes

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 Europe: IOELV: TWA Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	14 mg/m³; 10 ppm 7 mg/m³; 5 ppm 14,2 mg/m³; 10 ppm 7,1 mg/m³; 5 ppm

DNEL/DMEL: Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (CAS 101316-72-7):
DNEL workers, long-term, systemic, inhalative: 2,73 mg/m³
DNEL workers, long-term, local, inhalative: 5,58 mg/m³
DNEL workers, long-term, systemic, dermal: 0,97 mg/kg bw/d
DNEL consumers, long-term, systemic, oral: 0,74 mg/kg bw/d

Information about Distillates (petroleum), solvent-refined light paraffinic (CAS 64741-89-5):
DNEL workers, long-term, systemic, inhalative: 2,73 mg/m³
DNEL workers, long-term, local, inhalative: 5,58 mg/m³
DNEL workers, long-term, systemic, dermal: 0,97 mg/kg bw/d
DNEL consumers, long-term, systemic, oral: 0,74 mg/kg bw/d

PNEC: Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (CAS 101316-72-7):
PNEC oral, Secondary poisoning: 9,33 mg/kg Food

8.2 Exposure controls

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

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 ISO 374-1.
Glove material: Nitrile rubber (NBR), PVC
Breakthrough time: > 240 min
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Do not breathe mist/vapours/spray. Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes, and clothing.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Protect skin by using skin protective cream.

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
Melting point/freezing point:	No data available
Boiling point:	No data available
Flammability:	This product is non-flammable.
Lower and upper explosion limit:	LEL (Lower Explosion Limit): >= 45 g/m³ (aerosol)
Flash point:	208 °C (ASTM D 92)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	Not applicable
Kinematic viscosity:	at 40 °C: 22 mm²/s (ASTM D 445)
Water solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	at 20 °C: 0,1 hPa (mineral oil, ASTM D 5191)
Density:	at 15 °C: 865 kg/m³ (ASTM D 4052)
Relative vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	Not oxidising
Auto-ignition temperature:	No data available
Additional information:	Setting point: -33 °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

Reacts violently with strong oxidizing agents. Risk of fire!

10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames. Protect from direct sunlight.

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.
Direct contact with eyes may cause temporary irritation.

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

Other information: Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (CAS 101316-72-7):
LD50 Rat, oral: > 5.000 mg/kg (OECD 401)
LD50 Rabbit, dermal: > 2.000 mg/kg (OECD 402)
LC50 Rat, inhalative: 2,18 - 5,53 mg/L/4 h (OECD 403)

Information about Distillates (petroleum), solvent-refined light paraffinic (CAS 64741-89-5):
LD50 Rat, oral: > 5.000 mg/kg (OECD 401)
LD50 Rat, dermal: > 2.000 mg/kg bw/d (OECD 402)
LC50 Rat, inhalative: > 5 mg/L/4 h (OECD 403)

Symptoms

In case of inhalation:
Mist or vapours released by overheating may cause irritation of the respiratory tract.
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: Direct contact with eyes may cause temporary 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

Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (CAS 101316-72-7):
Fish toxicity:
LC50: > 100 mg/L (OECD 203)
NOEC, Oncorhynchus mykiss: > 1.000 mg/L/14d
Daphnia toxicity:
EC50: > 10.000 mg/L/48h (OECD 202)
NOEC, crustaceans: > 1.000 mg/L/21d (OECD 211)
Algae toxicity:
NOEC, Pseudokirchneriella subcapitata (green algae): > 100 mg/L/72h (OECD 201)

Information about Distillates (petroleum), solvent-refined light paraffinic (CAS 64741-89-5):
Fish toxicity:
LL50: > 100 mg/L
Daphnia toxicity:
EC50: > 10.000 mg/L/48h (OECD 202)

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

12.2 Persistence and degradability

Further details: Product is not readily biodegradable. Inherently biodegradable.

Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (CAS 101316-72-7):
Not easily bio-degradable, inherently biodegradable.

Information about Distillates (petroleum), solvent-refined light paraffinic (CAS 64741-89-5):
Biodegradability: 31%/ 28 d. Not easily bio-degradable, inherently biodegradable.

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (CAS 101316-72-7):
Outflowing product can lead to the formation of a film on the water surface, which reduces oxygen exchange and may result in the death of organisms.

Information about Distillates (petroleum), solvent-refined light paraffinic (CAS 64741-89-5):
Outflowing product can lead to the formation of a film on the water surface, which reduces oxygen exchange and may result in the death of organisms.

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: Do not allow to enter into ground-water, 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.

Package

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

Section 14. Transport information

14.1 UN number or ID number

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

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 that cannot be assigned to any of the above storage classes

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.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:
H304 = May be fatal if swallowed and enters airways.
EUH210 = Safety data sheet available on request.

Reason of change:
Changes in section 3: Composition / Information on ingredients
Changes in section 8: Exposure controls/personal protection
Changes in section 9: Physical and chemical properties
Changes in section 12: Aquatic toxicity
Changes in section 13: Disposal considerations
General revision

Date of first version: 18.5.2022

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
Asp. Tox.: Aspiration toxicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DIN: German Insitute for Standardization
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
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
IMO: International Maritime Organization
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
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:
https://sumdat.net/wsqevde8