



# AUTOL HYDRAULIKÖL HYS 22

Material number 15210

## Safety Data Sheet

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

Revision date: 20.3.2024

Version: 7.0

Replaces version: 6.1

Language: en-DE

Date of print: 3.4.2024

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

### 1.1 Product identifier

Trade name: AUTOL HYDRAULIKÖL HYS 22

### 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.

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

The product does not contain any substances classified as PBT or vPvB.

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

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

Additional information: The highly refined mineral oil contains &lt;3% (w/w) DMSO extract, according to IP346.

**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:  
Inhaling the vapours leads to irritation of the respiratory tract and mucous membranes, headache, sick-feeling, dizziness, vomiting.
- In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.
- 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.



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## 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 sulphide,

Nitrogen oxides (NO<sub>x</sub>), aldehydes, zinc oxide, Calcium oxide, 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.



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## 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, unless storage class 3

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Additional information: Contains no substances with occupational exposure limit values.

DNEL/DMEL: Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated:

DNEL workers, long-term, systemic, dermal: 0,97 mg/kg bw/d

DNEL workers, long-term, systemic, inhalative: 2,73 mg/m<sup>3</sup>

DNEL workers, long-term, local, inhalative: 5,58 mg/m<sup>3</sup>

DNEL consumers, long-term, systemic, oral: 0,74 mg/kg bw/d

Information about Distillates (petroleum), solvent-refined light paraffinic:

DNEL workers, long-term, systemic, inhalative: 2,73 mg/m<sup>3</sup>

DNEL workers, long-term, local, inhalative: 5,58 mg/m<sup>3</sup>

DNEL workers, long-term, systemic, dermal: 0,97 mg/kg bw/d

DNEL consumers, long-term, systemic, oral: 0,74 mg/kg bw/d

DNEL consumers, long-term, local, inhalative: 1,19 mg/kg

PNEC: Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated:

PNEC oral, Secondary poisoning: 9,33 mg/kg Food



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## 8.2 Exposure controls

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

## Personal protection equipment

### Occupational exposure controls

- Respiratory protection: Use combination filter type A/P according to EN 14387.  
Approved respiratory protection equipment shall be used in spaces where hydrogen sulfide may accumulate. full face mask (EN 136) with filter type B.  
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: > 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. 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

Do not allow to enter into surface water or drains. Do not apply industrial sludge to natural soils.

## 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   |
| Odour:  | Characteristic   |
| Odour threshold:                              | No data available  |
| Melting point/freezing point:                 | -33 °C (ASTM D 97)   |
| Initial boiling point and boiling range:      | Not determined   |
| Flammability:                                 | This product is non-flammable.                                 |
| Upper/lower flammability or explosive limits: | LEL (Lower Explosion Limit): $\geq 45 \text{ g/m}^3$ (aerosol) |
| Flash point/flash point range:                | 208 °C (ASTM D 92)   |
| Auto-ignition temperature:                    | Not determined   |
| Decomposition temperature:                    | No data available  |
| pH:   | Not applicable   |
| Viscosity, kinematic:                         | at 40 °C: 22 mm <sup>2</sup> /s (ASTM D 445)                   |
| Water solubility:                             | Insoluble  |
| Partition coefficient: n-octanol/water:       | No data available  |
| Vapour pressure:                              | at 20 °C: 0,1 hPa (Mineralöl, ASTM D 5191)                     |
| Density:                                      | at 15 °C: 865 kg/m <sup>3</sup> (ASTM D 4052)                  |
| Vapour density:                               | No data available  |



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Particle characteristics:

Not applicable

### 9.2 Other information

Explosive properties:

No data available

Oxidizing characteristics:

Not oxidising

Auto-ignition temperature:

No data available

Evaporation rate:

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 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

With exposure to moisture, product will release hydrogen sulfide.

Thermal decomposition:

No data available



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## 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:

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:

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:

Inhaling the vapours leads to irritation of the respiratory tract and mucous membranes, headache, sick-feeling, dizziness, vomiting.

In case of ingestion: Swallowing may cause gastrointestinal irritation and pain of guts.

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

After eye contact: Direct contact with eyes may cause temporary irritation.



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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Daphnia toxicity: EC50: > 100 mg/L (OECD 211)  
Algae toxicity: NOEC, chronic: > 100 mg/L/21d  
Information about Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated:  
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)  
crustaceans NOEC, chronic: > 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:  
Fish toxicity: LC50: > 100 mg/L (LL 50)  
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:  
Not easily bio-degradable, inherently biodegradable.  
Information about Distillates (petroleum), solvent-refined light paraffinic:  
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:  
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:  
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 does not contain any substances classified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

None





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### 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



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## 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

Information on working limitations:

Observe employment restrictions for young people. Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

#### 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:

Use restriction according to REACH annex XVII, no.: 3

### 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 1: Details of the supplier of the safety data sheet  
General revision

Date of first version: 29.8.2022

Department issuing data sheet:

see section 1: Department responsible for information



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### 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 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  
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  
NF: French Standard  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
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  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative

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/45pir0mi>

