

# SAFETY DATA SHEET

Issued: 04-01-2023

Revision:

## 1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product name **REHOBOT HYDRAULIC OIL ISO VG 10**  
Definitions TY41, TY45  
Item number 22627, 22628  
UFI MX20-C00F-H002-AHCJ

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

Intended used Lubrication oil for hydraulic equipments

Uses advised against Product is not recommended for any use other than the identified uses above

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

Manufacturer/Supplier **Rehobot Hydraulics AB**  
**Skjulstagatan 11A**  
**SE-632 29 Eskilstuna**  
**SWEDEN**

Telephone +46 (0)16 16 82 00

Web: [www.rehobot.se](http://www.rehobot.se)

E-mail address for a competent person for safety data sheet: [info@rehobot.se](mailto:info@rehobot.se)

### 1.4 Emergency telephone number

+46 (0)16 16 82 00 – opening hours Monday – Thursday 8.00 a.m. to 4.00 p.m. Friday 8.00 a.m. to 3.00 p.m.

In Emergency: Phone local emergency number, request Poison Information Center

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to the Regulation (EC) No 1272/2008 [CLP]

Asp. Tox 1; H304

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word Danger

Hazard statements  
H304

May be fatal if swallowed and enters airways

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## Precautionary statements

P301+P310, P331: IF SWALLOWED: Immediately call POISON CENTER or doctor. Do not induce vomiting.  
P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

## 2.3 Other hazards

Prolonged or repeated contact may dry skin and cause irritation.

Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable

### 3.2 Mixtures

A mixture of synthetic oil.

Ingredient	Index	REACH #	CAS / EC	Concentration (%)	Classification according to Regulation No. 1272/2008 [CLP]
Beverly refined mineral oil (C15-C50)*			CAS*	>90	Asp. Tox. 1; H304
2,6-di-tert-butylphenol		01-2119490822-33	128-39-2 204-884-0	<0,25	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
2-ethylhexan-1-ol		01-2119487289-20	104-76-7 203-234-3	<0,1	Acute Tox. 4; H332 Skin irrit. 2; H315 Eye irrit. 2; H319 STOT SE 3; H335
Hydrocarbons, C11-C13, isoalkanes, <2 % aromatics		01-2119456810-40	920-901-0	<0,1	Asp Tox. 1; H304 EUH066
Ethyl acrylate	607-032-00-X	01-2119459301-46	140-88-5 205-438-8	<0,1	Flam. Liq. 2; H225 Acute Tox. 4; H302, H312, H332 Skin irrit. 2; H315 Eye irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412

\*Contains one or more of following:

CAS nr: 1335203-17-2, 64742-54-7, 64742-55-8, 64742-56-9, 64742-65-0

The mineral base oils contained in the product are severerally refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General

In case of uncertainty or symptoms get medical advise.

#### Inhalation

Remove from further exposure. Fresh air and rest. Seek medical attention if irritation persists.

#### Skin contact

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water.

#### Eye contact

Separate the eyelids with fingers. Flush thoroughly with water. If symptoms persist continue to rinse and contact a physician.

#### Ingestion

Get medical attention immediately. Call a poison center or doctor. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the person feels sick as vomiting may be dangerous. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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

Skin contact - may dry and irritate the skin

Ingestion – nausea and vomiting

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

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing Media: use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog)

Unsuitable Extinguishing Media: Do not use water jet

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

In a fire or if heated a pressure increase will occur and the container may burst.

Hazardous combustion products: carbon dioxide, carbon monoxide

### 5.3 Advise for firefighters

Wear self-contained breathing apparatus and protective clothing in case of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Use appropriate personal protective equipment.

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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

Stop leak if without risk. Move container from spill area. Absorb with inert dry material and place in an appropriate waste disposal container.

### 6.4 Reference to other sections

For waste disposal see section 13. For personal protection see section 8.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Protective measures

Use appropriate personal protective equipment (see section 8). Do not swallow. Avoid contact with eye, skin or clothes. Avoid breathing vapor or mist. Store in the original container tightly closed.

#### Advice on general occupational hygiene

Do not eat or drink in areas where this material is handled, stored and processed. Wash hands before breaks and before going home. Remove contaminated clothing and protective equipment before entering eating areas.

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

Store in accordance with local regulations. Store in original containers protective from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10), and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use

Use according to section 1.2.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational exposure limit values exist.

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## Ingredient

## Exposure limits

### EU OEL (Europe)

Severely refined mineral oil (C15-C50)

TWA 8 h: 5 mg/m<sup>3</sup> (mist)

STEL 15 min: 10 mg/m<sup>3</sup> (mist)

2-Ethylhexan-ol

TWA 8 h: 5,4 mg/m<sup>3</sup>, 1 ppm

Hydrocarbons C11-C13

TWA: 171 ppm vapor

Ethylacrylate

TWA 8 h: 21 mg/m<sup>3</sup>, 5 ppm

STEL 15 min: 42 mg/m<sup>3</sup>, 10 ppm

## DNEL

Ingredient	Exposure	Value	Population, effects
2,6-di-tert-butylphenol	Long term oral	6,75 mg/kg bw/day	General population, systemic
	Long term dermal	11,25 mg/kg bw/day	Workers, systemic
	Long term inhalation	20,9 mg/m <sup>3</sup>	General population, systemic
	Long term inhalation	70,61 mg/m <sup>3</sup>	Workers, systemic
2-ethylhexan-1-ol	Long term dermal	6,75 mg/kg bw/day	General population, systemic
	Long term oral	1,1 mg/kg bw/day	General population, systemic
	Long term inhalation	2,3 mg/m <sup>3</sup>	General population, systemic
	Long term dermal	11,4 mg/kg bw/day	General population, systemic
	Long term inhalation	12,8 mg/m <sup>3</sup>	Workers, systemic
	Long term dermal	23 mg/kg bw/day	Workers, systemic
	Short term inhalation	26,6 mg/m <sup>3</sup>	General population, local
	Long term inhalation	26,6 mg/m <sup>3</sup>	General population, local
Ethylacrylate	Short term inhalation	53,2 mg/m <sup>3</sup>	Workers, local
	Long term inhalation	53,2 mg/m <sup>3</sup>	Workers, local
	Long term inhalation	2,5 mg/m <sup>3</sup>	General population, local
	Long term inhalation	21 mg/m <sup>3</sup>	Workers, local
	Short term dermal	0,92 mg/cm <sup>3</sup>	General population, local
	Short term dermal	0,92 mg/cm <sup>3</sup>	Workers, local

Values according to SDS from supplier.

## PNEC

No PNECs available

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure adequate ventilation. Wash hands after handling the product. Wash contaminated clothing before reusing.

### 8.2.2 Individual protection measures

a) Eye/Face Protection:

Safety eyewear should be used when a risk assessment indicates this is necessary to avoid exposure.

b) Skin protection

i. Hand protection

Chemical-resistant, impervious gloves complying with an approved standard. Observe that the breakthrough time may vary depending on supplier. Recommended: < 1 hour (breakthrough time), nitrile rubber 0.17 mm.

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|-----|------------------------|---|
| ii. | Other                  | Personal protective equipment for body should be selected based on the task being performed and the risks involved.   |
| c)  | Respiratory protection | In case of insufficient ventilation, respiratory protection is necessary. Recommended: Boiling point > 65 °C, filter A1, Boiling point < 65°C, filter AX1, Hot material, filter A1P2. |
| d)  | Thermal hazards        | None  |

## 8.2.3 Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basis and chemical properties

- |    |  |  |
|----|--|--|
| a) | Physical state   | liquid [oily liquid] clear   |
| b) | Colour   | yellow [light]   |
| c) | Odour  | characteristic   |
| d) | Melting point/freezing point                             | not applicable   |
| e) | Boiling point or initial boiling point and boiling range | > 260°C (> 500°F)  |
| f) | Flammability   | not applicable   |
| g) | Lower and upper explosion limit                          | not available  |
| h) | Flash point  | open cup: 158°C (316.4°F) [ASTM D92]   |
| i) | Auto-ignition temperature                                | > 230°C (> 446°F)  |
| j) | Decomposition temperature                                | > 230°C (> 446°F)  |
| k) | pH   | not applicable   |
| l) | Kinematic viscosity                                      | 10 mm <sup>2</sup> /s (10cSt) 40°C (104°F)<br>2,6 mm <sup>2</sup> /s (2.6 cSt) 100°C (212°F) |
| m) | Solubility   | not soluble in water   |
| n) | Partition coefficient<br>n-octanol/water (log value)     | not applicable   |
| o) | Vapour pressure  | <0.01 kPa (<0.075006 mm Hg)  |
| p) | Density and/or relative density                          | 0.86 g/cm <sup>3</sup> , 15°C (59°F) [ASTM D 4052]   |
| q) | Relative vapour density                                  | not applicable   |
| r) | Particle characteristics                                 | not applicable   |

### 9.2 Other information

Pour point -54°C (-65.2°F) [ASTM D97]

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## 9.2.1. Information with regard to physical hazard classes

Not applicable.

No explosive or oxidizing properties.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of hazardous reactions

Under normal condition of storage or use, hazardous reaction will not occur.

### 10.4 Conditions to avoid

No specific data.

### 10.5 Incompatible materials

Reactive or incompatible with the following materials:

Strong oxidizing materials

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

- a) Acute toxicity No data available for material.

Ingredient	Result	Dose, exposure
Severely refined mineral oil (C15-C50)	LC50 inhalation, rat, 4h	5.53 mg/l, 4 hour
	LD50 dermal, rabbit	>5000 mg/kg
	LD50 oral, rat	>5000 mg/kg
2,6-di-tert-butylphenol	LD50 dermal, rabbit	>10 g/kg
	LD50 oral, rat	1320 mg/kg
2-ethyl-hexan-1-ol	LD50 dermal, rabbit	1970 mg/kg
	LD50 oral, rat	3730 mg/kg
Ethylacrylate	LC50 inhalation gas, rat	1414 ppm, 4 hour
	LC50 inhalation ånga, rat	9 mg/l, 4 hour
	LD50 dermal, rat	3049 mg/kg
	LD50 oral, rat	800 mg/kg

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- |    |                                   |   |
|----|-----------------------------------|---|
| b) | Skin Corrosion/irritation         | Defatting the skin. May cause skin dryness and irritation   |
| c) | Serious Eye Damage/irritation     | No known significant effects or critical hazards  |
| d) | Respiratory or Skin Sensitisation | Not classified as respiratory or skin sensitizer, but contains an ingredient (ethyl acrylate) which may cause allergic reactions. |
| e) | Germ Cell Mutagenicity            | Not classified to be germ cell mutagen.   |
| f) | Carcinogenicity                   | Not classified to cause cancer.   |
| g) | Reproductive Toxicity             | Not classified to be reproductive toxicant.   |
| h) | STOT-single exposure              | Not expected to cause organ damage from single exposure.  |
| i) | STOT-repeated exposure            | Not expected to cause organ damage from prolonged or repeated exposure.   |
| j) | Aspiration Hazard                 | May be fatal if swallowed and enters airways.   |

## Symptoms related to physical, chemical and toxicological characteristics

Skin contact                      irritation, dryness and cracking  
Ingestion                         nausea or vomiting

### **11.2 Information on other hazards**

#### 11.2.1 Endocrine disrupting properties

Not available

#### 11.2.2 Other information

Not available

## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

No data for the product.

Ingredient	Species	Result, exposure
Severely refined mineral oil (C15-C50)	Acute NEL, Algae	>100 mg/l fresh water, 72 hour
	Acute NEL, Daphnia (D. Magma)	>10000 mg/l fresh water, 48 hour
	Acute NEL, Fish (Pimephales promelas)	>100 mg/l fresh water, 96 hour
	Chronic NEL, Daphnia (D. Magma)	10 mg/l fresh water 21 dagar
2-ethylhexan-1-ol	Acute LC50, Fish (Pimephales promelas)	28200 µg/l fresh water 96 hour
Etylacrylate	Acute LC50, Crustaceans (Gammarus pulex)	4784 µg/l fresh water 48 hour
	Acute LC50, Fish (Pimephales promelas)	2500 µg/l fresh water 96 hour

According to safety data sheet from supplier.

### **12.2 Persistence and degradability**

Not available

### **12.3 Bioaccumulative potential**

Not available

### **12.4 Mobility in soil**

Not available



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## 12.5 Results of PBT-vPvB assessment

This product does not contain any substance that are assessed to be a PBT or a vPvB.

## 12.6 Endocrine disrupting properties

Not available

## 12.7 Other adverse effects

No known significant effects or critical hazards.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste disposal according to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing and to national and local regulations.

Regulatory disposal information, European Waste Code:

13 01 10\* Mineral based non-chlorinated hydraulic oils

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Avoid dispersal of spilled material and contact with soil, waterways, drains and sewers.

## 14. TRANSPORT INFORMATION

Not hazardous for transport ADR (Road), RID (Rail), IMDG (Sea) or IATA (Air)

### 14.1 UN number

Not regulated

### 14.2 UN proper shipping name

-

### 14.3 Transport hazard class(es)

-

### 14.4 Packing group

-

### 14.5 Environmental hazards

None

### 14.6 Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in event of accident or spillage.

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

Not available

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## 15. REGULATORY INFORMATION

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

EU regulation (EC) No 1907/2006 [Reach]

Annex XIV (substances subject to authorization) Not applicable

Substances of very high concern None listed

Annex XVII (Restrictions) Not applicable

Seveso Directive Not controlled

National regulations

Germany

Hazard class for water WGK 1

### 15.2 Chemical safety assessment

A Chemical Assessment has not been accomplished on this product.

## 16. OTHER INFORMATION

This Material Safety Data Sheet is based on present knowledge and on current laws.

### 16.1 Revision

Version 1, 04-01-2023

Prepared in accordance with Regulation (EC) 1907/2006 [REACH], Regulation (EC) 12712/2008 [CLP] and Regulation (EU) 2020/878. It is based on the safety data sheet from manufacturer/supplier.

The Material Safety Data Sheet has been issued and updated by Svensk Arbetshygien AB,  
[www.svenskarbetshygien.se](http://www.svenskarbetshygien.se)

### 16.2 Key to the H statements contained in section 3

H225	Mycket brandfarlig vätska och ånga
H302	Skadligt vid förtäring
H312	Skadligt vid hudkontakt
H315	Irriterar huden
H317	Kan orsaka allergisk hudreaktion
H319	Orsakar allvarlig ögonirritation
H332	Skadligt vid inandning
H335	Kan orsaka irritation i luftvägarna
H400	Mycket giftigt för vattenlevande organismer
H410	Mycket giftigt för vattenlevande organismer med långtidseffekter
H412	Skadliga långtidseffekter för vattenlevande organismer
EUH066	Upprepad kontakt kan ge torr hud och hudsprickor

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## 16.3 Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM = American SOCIETY FOR Testing and Materials

DNEL = Derived No Effect Level

EC = European Commission

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

IMO = International Maritime Organisation

LC50 = Median Lethal Concentration

LD50 = Median Lethal Dose

OEL = Occupational Exposure Limit

PNEC = Predicted No Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic

RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail

SDS = Safety Data Sheet

STEL = Short Time Exposure Limit

TWA = Time Weighted Average

UFI = Unique Formula Identifier

vPvB = Very Persistent and Very Bioaccumulative