

	<b>SAFETY DATA SHEET</b>	Page : 1 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

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

### 1.1. Product identifier

Product form : Mixture  
Trade name : Hydraulic Mineral Oil  
UFI : HK0C-JSWY-KR15-2MPV  
Product group : Trade product

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
Use of the substance/mixture : Hydraulic Fluids

#### 1.2.2. Uses advised against

No additional information available

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

SHIMANO EUROPE B.V.  
High Tech Campus 92  
5656 AG Eindhoven  
The Netherlands  
T +31-402-612222  
[shimano.eu.sds@shimano-eu.com](mailto:shimano.eu.sds@shimano-eu.com)

### 1.4. Emergency telephone number

Emergency number : +31-402-612222  
Only available during office hours.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Asp. Tox. 1 H304  
Aquatic Chronic 3 H412

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

	<b>SAFETY DATA SHEET</b>	Page : 2 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

## 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

Signal word :

Danger

Contains :

Distillates (petroleum), hydrotreated light paraffinic; Baseoil – unspecified, Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil – unspecified

Hazard statements (CLP) :

H304 - May be fatal if swallowed and enters airways.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P102 - Keep out of reach of children.  
P273 - Avoid release to the environment.  
P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do NOT induce vomiting.  
P405 - Store locked up.  
P501 - Dispose of contents and container to an approved waste disposal plant.

## 2.3. Other hazards

Other hazards :

Results of PBT and vPvB assessment : Not applicable.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments :

DMSO : < 3%

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated light paraffinic; Baseoil – unspecified (*)	(CAS-No.) 64742-55-8 (EC-No.) 265-158-7 (EC Index) 649-468-00-3 (REACH-no) 01-2119487077-29-xxxx	50 – 95	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil – unspecified (*)	(CAS-No.) 64742-65-0 (EC-No.) 265-169-7 (EC Index) 649-474-00-6 (REACH-no) 01-2119471299-27-xxxx	1 – 20	Asp. Tox. 1, H304
Phenol, isopropylated, phosphate (3:1) (Triphenyl phosphate >5%)	(CAS-No.) 68937-41-7 (EC-No.) 273-066-3	< 1	Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 1, H410
2,6-di-tert-butyl-p-cresol	(CAS-No.) 128-37-0 (EC-No.) 204-881-4	< 1	Aquatic Chronic 1, H410

	<b>SAFETY DATA SHEET</b>	Page : 3 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

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

#### **SECTION 4: First aid measures**

##### **4.1. Description of first aid measures**

- Additional advice : First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation : Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
- Skin contact : Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician. Wash contaminated clothing before reuse.
- Eyes contact : Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.
- Ingestion : Rinse mouth thoroughly with water. Do NOT induce vomiting. Get immediate medical advice/attention.

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

- Inhalation : Health injuries are not known or expected under normal use. The following symptoms may occur: Cough.
- Skin contact : Prolonged or repeated contact may cause skin to become dry. The following symptoms may occur: Redness.
- Eyes contact : Health injuries are not known or expected under normal use. The following symptoms may occur: redness, itching, tears.
- Ingestion : May be fatal if swallowed and enters airways. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The following symptoms may occur: nausea, vomiting. Pneumonia.

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

##### **5.1. Extinguishing media**

- Suitable extinguishing media : carbon dioxide (CO<sub>2</sub>), powder, alcohol-resistant foam, water spray.
- Unsuitable extinguishing media : Strong water jet.

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

- Specific hazards : Not flammable. Heating will cause a rise in pressure with a risk of bursting.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>).

##### **5.3. Advice for firefighters**

- Firefighting instructions : Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
- Other information : Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

	<b>SAFETY DATA SHEET</b>	Page : 4 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

## SECTION 6: Accidental release measures

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

#### **6.1.1. For non-emergency personnel**

For non-emergency personnel : Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing.

#### **6.1.2. For emergency responders**

For emergency responders : Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

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

Methods for cleaning up : Stop leak if safe to do so. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation.

### **6.4. Reference to other sections**

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### **7.1. Precautions for safe handling**

Precautions for safe handling : Keep out of reach of children. Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials. Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment.

Hygiene measures : Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

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

Technical measures : Keep out of reach of children.

Storage conditions : Store locked up. Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep out of direct sunlight.

Packaging materials : Keep only in the original container.

### **7.3. Specific end use(s)**

Reference to other sections : 1.2.

	<b>SAFETY DATA SHEET</b>	Page : 5 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Phenol, isopropylated, phosphate (3:1) (Triphenyl phosphate &gt;5%) (68937-41-7)</b>		
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	1 mg/m <sup>3</sup> (inhalable fraction)
Slovenia	OEL TWA	1 mg/m <sup>3</sup> (inhalable fraction)
Slovenia	OEL STEL	2 mg/m <sup>3</sup> (inhalable fraction)
Switzerland	MAK (OEL TWA) [1]	3,5 mg/m <sup>3</sup> (inhalable dust)
Switzerland	KZGW (OEL STEL)	7 mg/m <sup>3</sup> (inhalable dust)
<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>		
Austria	MAK (OEL TWA)	10 mg/m <sup>3</sup>
Austria	MAK (OEL TWA) [ppm]	0,075 ppm
Austria	MAK (OEL STEL)	2 mg/m <sup>3</sup>
Austria	MAK (OEL STEL) [ppm]	0,3 ppm
Belgium	OEL TWA	2 mg/m <sup>3</sup> (aerosol and vapor)
Belgium	OEL TWA [ppm]	0,1 ppm
Bulgaria	OEL TWA	10 mg/m <sup>3</sup>
Bulgaria	OEL STEL	50 mg/m <sup>3</sup>
Croatia	GVI (OEL TWA) [1]	10 mg/m <sup>3</sup>
Croatia	KGVI (OEL STEL)	2 mg/m <sup>3</sup>
Czech Republic	PEL (OEL TWA)	1 mg/m <sup>3</sup>
Denmark	OEL TWA [1]	10 mg/m <sup>3</sup>
Denmark	OEL TWA [2]	0,1 ppm
Finland	HTP (OEL TWA) [1]	10 mg/m <sup>3</sup>
Finland	HTP (OEL STEL)	20 mg/m <sup>3</sup>
France	VME (OEL TWA)	10 mg/m <sup>3</sup>
Germany	Occupational exposure limit value (mg/m <sup>3</sup> ) (TRGS900)	10 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)
Greece	OEL TWA	10 mg/m <sup>3</sup>
Greece	OEL STEL	2 mg/m <sup>3</sup>
Hungary	AK (OEL TWA)	0,5 mg/m <sup>3</sup>
Hungary	CK (OEL STEL)	2 mg/m <sup>3</sup>
Ireland	OEL TWA [1]	2 mg/m <sup>3</sup>
Ireland	OEL STEL	6 mg/m <sup>3</sup> (calculated)
Poland	NDS (OEL TWA)	0,6 mg/m <sup>3</sup>
Portugal	OEL TWA	2 mg/m <sup>3</sup> (inhalable fraction, aerosol and vapor)
Portugal	OEL TWA [ppm]	0,1 ppm
Romania	OEL STEL	1 mg/m <sup>3</sup>
Romania	OEL STEL [ppm]	0,16 ppm
Slovenia	OEL TWA	10 mg/m <sup>3</sup> (inhalable fraction)
Slovenia	OEL STEL	40 mg/m <sup>3</sup> (inhalable fraction)
Spain	VLA-ED (OEL TWA) [1]	10 mg/m <sup>3</sup>

	<b>SAFETY DATA SHEET</b>	Page : 6 / 15
		Revision nr : 3.0
		Issue date : 14/04/2022
	<b>Hydraulic Mineral Oil</b>	Supersedes : 11/06/2020

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>		
Spain	VLA-ED (OEL TWA) [2]	0,1 ppm
United Kingdom	WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup>
United Kingdom	WEL STEL (OEL STEL)	30 mg/m <sup>3</sup> (calculated)
Norway	Grenseverdi (OEL TWA) [1]	1 mg/m <sup>3</sup>
Norway	Korttidsverdi (OEL STEL)	3 mg/m <sup>3</sup> (value calculated)
Switzerland	MAK (OEL TWA) [1]	10 mg/m <sup>3</sup> (no elevated carcinogenic risk by keeping the MAK-value-aerosol, inhalable dust, vapour)
Switzerland	MAK (OEL TWA) [2]	0,075 ppm (aerosol, vapour)
Switzerland	KZGW (OEL STEL)	40 mg/m <sup>3</sup> (aerosol, inhalable dust, vapour)
Australia	OES TWA [1]	10 mg/m <sup>3</sup>
Australia	OES TWA [2]	0,1 ppm
Canada (Quebec)	VEMP (OEL TWA)	2 mg/m <sup>3</sup> (inhalable fraction and vapour)
Canada (Quebec)	VEMP (OEL TWA) [ppm]	0,1 ppm
USA - ACGIH	ACGIH OEL TWA	2 mg/m <sup>3</sup> (inhalable fraction and vapor)
USA - ACGIH	ACGIH OEL TWA [ppm]	0,1 ppm
USA - IDLH	IDLH	100 mg/m <sup>3</sup>
USA - NIOSH	NIOSH REL TWA	10 mg/m <sup>3</sup>
USA - OSHA	OSHA PEL TWA [1]	1 mg/m <sup>3</sup>

Additional information : Personal air monitoring :. Room air monitoring. Recommended monitoring procedures

## **8.2. Exposure controls**

Engineering measure(s) : Provide adequate ventilation. Organisational measures to prevent /limit releases, dispersion and exposure. See Section 7 for information on safe handling .

Personal protective equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hand protection : Wear chemically resistant gloves (tested to EN374) . Suitable material: Polyvinylchloride (PVC). Thickness : . Not determined. Breakthrough time : refer to the recommendations of the supplier. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Eye protection : If there is a risk of liquid being splashed : Use suitable eye protection (EN166): Safety glasses

Body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: ABEK (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)

Thermal hazard protection : Not required for normal conditions of use. Use dedicated equipment.

Environmental exposure controls : Avoid release to the environment. Comply with applicable Community environmental protection legislation.

	<b>SAFETY DATA SHEET</b>	Page : 7 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: liquid.
Colour	: red.
Odour	: Characteristic. Mineral oil.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: 157 °C (COC)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable,liquid
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Solubility	: Water: Insignificant
Partition coefficient n-octanol/water	: Not applicable
Kinematic viscosity	: 8 mm <sup>2</sup> /s (40 °C)
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.
Oxidising properties	: Not applicable. The study does not need to be conducted because on the basis of the chemical structure the inorganic substance does not contain oxygen or halogen atoms.
Explosive limits	: 1 – 7 vol % (typical)
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

	<b>SAFETY DATA SHEET</b>	Page : 8 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

### 9.2.2. Other safety characteristics

Additional information : Pour point : -35 °C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions. Reference to other sections 10.4 & 10.5.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Extremely high temperatures. Keep out of direct sunlight. See Section 7 for information on safe handling.

### 10.5. Incompatible materials

Strong oxidizing agents. See Section 7 for information on safe handling.

### 10.6. Hazardous decomposition products

Reference to other sections 5.2.

## SECTION 11: Toxicological information

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

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

<b>Distillates (petroleum), hydrotreated light paraffinic; Baseoil – unspecified (64742-55-8)</b>	
LD50/oral/rat	5000 mg/kg
LD50 oral	5000 mg/kg
LD50 dermal	> 5000 mg/kg
LC50/inhalation/4h/rat	3900 mg/m <sup>3</sup> (Exposure time: 4 h)
LC50/inhalation/4h/rat (ppm)	> 5 mg/l

<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil – unspecified (64742-65-0)</b>	
LD50/oral/rat	> 15000 mg/kg
LD50/dermal/rabbit	> 5000 mg/kg
LC50/inhalation/4h/rat	> 2400 mg/m <sup>3</sup> (Exposure time: 4 h)

<b>Phenol, isopropylated, phosphate (3:1) (Triphenyl phosphate &gt;5%) (68937-41-7)</b>	
LD50/oral/rat	> 5000 mg/kg
LD50/dermal/rabbit	> 10000 mg/kg
LC50/inhalation/4h/rat	> 200 mg/l (Exposure time: 1 h)

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
LD50/oral/rat	> 2930 mg/kg
LD50/dermal/rat	> 2000 mg/kg
LC50/inhalation/4h/rat	> 2000 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)



	<b>SAFETY DATA SHEET</b>	Page : 9 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
 Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
 STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)  
 STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)  
 Aspiration hazard : May be fatal if swallowed and enters airways.

<b>Hydraulic Mineral Oil</b>	
Kinematic viscosity	8 mm <sup>2</sup> /s (40 °C)
Hydrocarbon	Yes

Other information : Symptoms related to the physical, chemical and toxicological characteristics.  
 For further information see section 4.

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

### **11.2.1. Endocrine disrupting properties**

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### **11.2.2 Other information**

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Environmental properties : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

<b>Distillates (petroleum), hydrotreated light paraffinic; Baseoil – unspecified (64742-55-8)</b>	
LC50 - Fish [1]	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 algae	> 100 mg/l Pseudokirchneriella subcapitata (green algae)
NOEC chronic fish	> 1000 mg/l Oncorhynchus mykiss (Rainbow trout)
NOEC chronic crustacea	10 mg/l Daphnia magna (Big water flea)

<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil – unspecified (64742-65-0)</b>	
LC50 - Fish [1]	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 - Crustacea [1]	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

	<b>SAFETY DATA SHEET</b>	Page : 10 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

<b>Phenol, isopropylated, phosphate (3:1) (Triphenyl phosphate &gt;5%) (68937-41-7)</b>	
---	--

LC50 - Fish [1]	1,15 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
LC50 - Fish [2]	1000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 - Crustacea [1]	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC chronic fish	3,1 µg/L

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
--	--

LC50 - Fish [1]	14,36 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 - Crustacea [1]	2,7 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h - Algae [1]	6 mg/l (Species: Pseudokirchneriella subcapitata)
EC50 72h - Algae [2]	> 0,42 mg/l (Species: Desmodesmus subspicatus)

### **12.2. Persistence and degradability**

<b>Hydraulic Mineral Oil</b>	
------------------------------	--

Persistence and degradability	No additional information available.
-------------------------------	--------------------------------------

<b>Distillates (petroleum), hydrotreated light paraffinic; Baseoil – unspecified (64742-55-8)</b>	
---	--

Persistence and degradability	Substance is complex UVCB. Inherently biodegradable. Not readily biodegradable.
-------------------------------	---

<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil – unspecified (64742-65-0)</b>	
--	--

Persistence and degradability	Substance is complex UVCB. Inherently biodegradable. Not readily biodegradable.
-------------------------------	---

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
--	--

Persistence and degradability	Not readily biodegradable.
-------------------------------	----------------------------

### **12.3. Bioaccumulative potential**

<b>Hydraulic Mineral Oil</b>	
------------------------------	--

Partition coefficient n-octanol/water	Not applicable
Bioaccumulative potential	No additional information available.

<b>Distillates (petroleum), hydrotreated light paraffinic; Baseoil – unspecified (64742-55-8)</b>	
---	--

Bioaccumulative potential	Substance is complex UVCB.
---------------------------	----------------------------

<b>Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil – unspecified (64742-65-0)</b>	
--	--

Bioaccumulative potential	Substance is complex UVCB.
---------------------------	----------------------------

<b>2,6-di-tert-butyl-p-cresol (128-37-0)</b>	
--	--

BCF - Fish [1]	230 – 2500 (OECD 305C)
Partition coefficient n-octanol/water	4,17

	<b>SAFETY DATA SHEET</b>	Page : 11 / 15
		Revision nr : 3.0
		Issue date : 14/04/2022
	<b>Hydraulic Mineral Oil</b>	Supersedes : 11/06/2020

#### **12.4. Mobility in soil**

<b>Hydraulic Mineral Oil</b>	
Mobility in soil	No data available

#### **12.5. Results of PBT and vPvB assessment**

<b>Hydraulic Mineral Oil</b>	
Results of PBT assessment	Not applicable

#### **12.6. Endocrine disrupting properties**

Adverse effects on the environment caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### **12.7. Other adverse effects**

Other adverse effects : No data available

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

	<b>SAFETY DATA SHEET</b>	Page : 12 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

ADR	IMDG	IATA	ADN	RID
No supplementary information available				

#### 14.6. Special precautions for user

Special precautions for user : No data available

#### - Overland transport

Not applicable

#### - Transport by sea

Not applicable

#### - Air transport

Not applicable

#### - Inland waterway transport

Not applicable

#### - Rail transport

Not applicable

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

Code: IBC : No data available.

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Hydraulic Mineral Oil ; Distillates (petroleum), hydrotreated light paraffinic; Baseoil – unspecified ; Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil – unspecified ; Phenol, isopropylated, phosphate (3:1) (Triphenyl phosphate >5%)
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Hydraulic Mineral Oil ; Phenol, isopropylated, phosphate (3:1) (Triphenyl phosphate >5%)

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

##### 15.1.2. National regulations

###### France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
na	Not Applicable	na	na

###### Germany

Regulatory reference : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

	<b>SAFETY DATA SHEET</b>	Page : 13 / 15
		Revision nr : 3.0
		Issue date : 14/04/2022
	<b>Hydraulic Mineral Oil</b>	Supersedes : 11/06/2020

German storage class (LGK) : LGK 12 - Non-combustible liquids  
 Hazardous Incident Ordinance (12. BlmSchV) : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

**Netherlands**

Waterbezwaarlijkheid : A (3) Harmful to aquatic life with long lasting effects.  
 SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
 SZW-lijst van mutagene stoffen : None of the components are listed  
 SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
 SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
 SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

**Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
 Pregnant/breastfeeding women working with the product must not be in direct contact with the product

**15.2. Chemical safety assessment**

Not applicable

<b>For the following substances of this mixture a chemical safety assessment has been carried out</b>
Distillates (petroleum), hydrotreated light paraffinic; Baseoil – unspecified
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil – unspecified

**SECTION 16: Other information**

Indication of changes:

1	SDS EU format according to COMMISSION REGULATION (EU) 2020/878	Modified	
2.3	ED text	Added	
11.2	Adverse health effects caused by endocrine disrupting properties	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
15	Regulatory information	Modified	

Abbreviations and acronyms:

ABM = Algemene beoordelingsmethodiek
--------------------------------------

	<b>SAFETY DATA SHEET</b>	Page : 14 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration
	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the : ECHA (European Chemicals Agency). LOLI. Supplier information. datasheet

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Classification - Assessment method: CLP Calculation method (Article 9).  
Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
H304	May be fatal if swallowed and enters airways.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

	<b>SAFETY DATA SHEET</b>	Page : 15 / 15
		Revision nr : 3.0
	<b>Hydraulic Mineral Oil</b>	Issue date : 14/04/2022
		Supersedes : 11/06/2020

Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

**DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.