

OPERATING MANUAL SBH QUICK SHORE Series 260



manufacturer: SBH Tiefbautechnik GmbH

Ferdinand-Porsche-Str. 8 D – 52525 HEINSBERG

phone: (0 24 52) 91 04 0 fax: (0 24 52) 91 04 50

e-mail: info@sbh-tiefbautechnik.com

homepage: http://www.sbh-tiefbautechnik.com

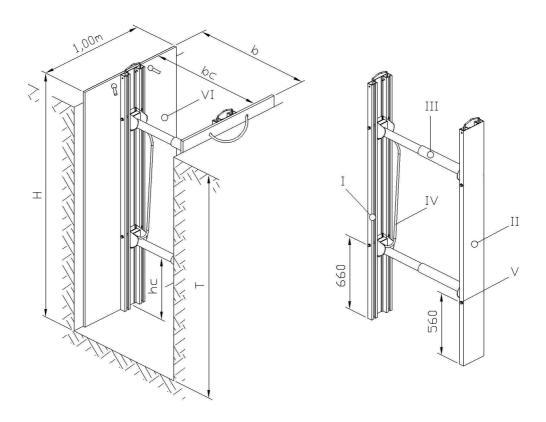


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System drawing



I Alu post type A
II Alu post type B
III Hydraulic strut

IV Hydraulic hosesV Bolt M12*240VI Plate PERI Fin Ply

b Trench width
 b_C Working width
 h_C Strut clearance height

H Plate height T Trench depth



Description

The Quick Shore Series 260 is a lightweight and compact trench shoring unit for depths up to 2,0 m and **stable ground conditions**. This system is ideally suited for laying and repairing house service connections as well as gas and water pipes.

Two opposite aluminium posts in 1,50 or 2,10 m length with intermediate hydraulic strutting are pushed against

the trench wall, covered by the PERI Fin Ply plates.

- One unit consists of: 2 plates & a collapsible alu post rame composed of a right & a left alu rail (type A & B) and 2 hydraulic struts, which are fixed to the rails by means of 4 bolts M12*240.
- > Trench depths up to 1,50 / 2,00 m
- > Plate PERI Fin Ply B = 1,00 m
- \triangleright Plate PERI Fin Ply H = 1,50 & 2,10 m
- > Alu post, length 1,50 & 2,10 m
- > Strut clearance height $h_c = 0.56 \text{ m}$
- Working widths $b_c = 0,45$ bis 1,60 m



The great adantages of the Quick Shore:

- > Low weight
- > Only 1 worker required for the installation
- > No excavator or lifting equipment required
- Cost-saving





Technical Parameter Alu rail

Allowed rail moment = 3,73 kNm

Alu Rail length [m]	T - max. Trench depth [m]	h _c – strut clearance Height [m]	Allowed boom bracing Load [kN / m]	Weight each frame [kg]
1,50	1,50	0,56	23,5	33
2,10	2,00	0,56	23,5	40

Plate PERI Fin Ply

Allowed plate moment = 0.91 kNm/m with t = 21 mm

Plate	i	Allowed	Weight
Width	Height	earth pressure	each plate
[m]	[m]	[kN / m ²]	[kg]
1,00	1,50	12,0	21
1,00	2,10	12,0	30

Hydraulic strut

Туре	Working width b _c [m]		G		Allowed. compressive force
	Min	max	Min	Max	[kN]
1	0,45	0,68	0,49	0,72	53
2	0,55	0,88	0,59	0,92	53
3	0,65	1,08	0,69	1,12	53
4	1,00	1,60	1,04	1,64	53

Accessories

Description	Weight [kg/pcs]
Hydraulic hand pump	11,2
Pipe hook	2,30
Release tool (re- installation)	2,50
Hydraulic hose	
For rail 1,50 m	0,54
For rail 2,10 m	0,74
For Hand pump	1,04





General instructions

The installation may be effected in stable ground conditions only!

The shoring must be without gap and close to the ground. The limiting values fro the max. loads have to be kept strictly. Single PERI Fin Ply plates may not be used. The proper condition of the plates has to be controlled prior to every use. The front and rear faces have to be properly secured or to be sloped.

The following rules and regulations have to be followed in their valid version:

- > Regulations of the BG-Fachausschuss Tiefbau (technical commitee civil and underground engineering)
- > DIN 4124 Baugruben und Gräben (excavation pits and trenches)
- DIN EN 13331 Teil 1 & 2 Grabenverbaugeräte (part 1 & 2 construction equipment)
- > Regeln für Sicherheit und Gesundheit bei der Arbeit (rules for safety and health during work)
- > Unfallverhütungsvorschriften / Arbeitsschutzvorschriften (accident prevention and safety at work rules)

Our shoring components have the GS-Sign "Certified Safety".

During installation the instructions of this operating manual have to be followed

Lifting & Transporting

- > The shoring may only be attached at the corresponding eyes and openings and/or lifting accessories.
- > The lifting accessories must be adapted to the weight which must be transported.
- For safety reasons only load hooks with hook safety must be used.
- The allowed tensile forces have to be kept in any case.
- The transporting has to be carried out next to the soil and unneeded pendulum movements have to be avoided.
- > It is forbidden to enter the swivel range of the lifting tool and to stay under floating loads.
- > It has to be paid attention to overhead contact lines.
- Engine driver and instructor must have face-to-face interaction.

Measures to reduce danger

- While swinging out and shutting the rail frames there is danger of violent pressure to hands and fingers.
- ➤ Handle the rails at the outside margin only and not within the swivel range of the struts.
- > The construction site has to be sufficiently secured and marked.
- Neighbouring traffic flow has to be made possible by means of security personnel if needed.
- > The personnel must wear protective clothing (helmet / safety shoes / gloves)
- Possible instabilities as a result of wind loads, during the assembly and installation, must be considered.
- ➤ The shoring components must be layed down preferably in horizontal way on a firm underground.

Maintenance & repair

- > As a matter of principle, the operability of all shoring components must be checked before use.
- > Defective or deformed components may not be used in any case.
- In order to increase cycle it is recommended to check regularly the hydraulic struts.



- > Slighter damages may be repaired by yourself after consulting SBH. Otherwise, our service at SBH is at your disposal if desired.
- > Only original spare parts of SBH may be used.

Assembly instructions

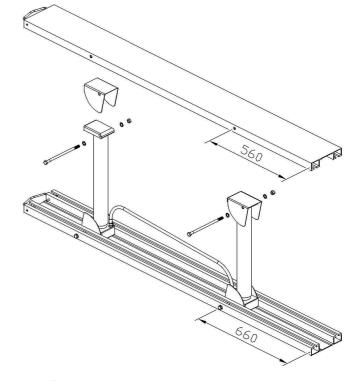
We recommend two workers for the assembly of the Quick Shore frame.

Put the alu post **type A** onto a flat and firm underground, two protection plates into the inner guide and fit with the hydraulic strut unit. Connect the components by means of the bolts M12x240, quality 8.8. Pay attention that one washer is put under the bolt head and one under the self-locking nut.

Fit the free cylinder sockets with the hand protection plates and put the alu post **type B** on.

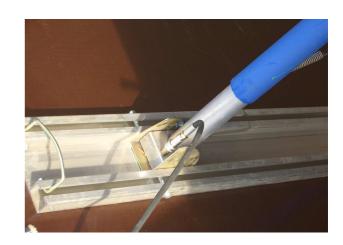
As described, lock the components by means of the bolts. In order to avoid an unintended collapsing of the frame, the upper frame has to be hold by a second person.

The hydraulic hose connection between the pair of struts is at the alu rail type A, where also stands the operator.



Connect the hydraulic hose of the hand pump with the valve at the upper hydraulic strut.

Control if the valve at the cover plate of the hand pump is open! If necessary, move the lever!





Installation instructions

Excavation till trench bottom but not deeper than 2,00 m.

At that time, it is forbidden to enter the trench.

The trench edge may by entered only, if it is covered with load distributing plates or planks.

Setting up of the PERI Fin ply plates against the trench wall. Hook in the release tool at the hand grip of the lower post and place the assembled frame at the trench edge.



Align the shut frame central to the PERI Fin Ply plate, lower into the trench and swing out.

Make sure that the hydraulic struts are aligned horizontally!

Push the hydraulic strut against the plates by means of the hand pump. The pressure in the hydraulic strut must be maintained (approx. 35bar and/or 500psi).

Afterwards, put the release tool behind the collar of the extension of the hose, pull at the hand grip towards the operator untill the extension springs open.



The covering of the trench walls must be effected over the whole surface, from the top edge of the trench up to the trench bottom. An unshored space below the covering (plates) is not allowed.

If another type of shoring is used, the DIN 4124 have to be followed and if necessary, an itemisation has to be provided for the wooden plates, if the minimum thickness of the planks is below 5 cm.

Allowed tensile forces

At the single attachment points the following tensile forces can be beared:

Plate pull strap = 2.7 kNAlu post hand grip = 2.1 kN

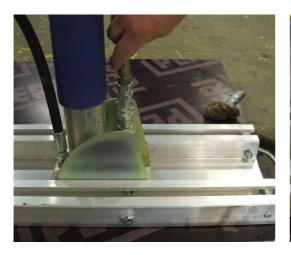


Re-installation

Bring in about 50 cm filling material and compact.

Connect again the hand pump at the valve of the upper hydraulic strut. Move the level at the cover plate of the hand pump so that the hydraulic system gets pressureless. The hydraulic struts are unloaded then and detach itselves from the trench wall. Hook in the pipe hook at the hand grip of the opposite alu post and pull up till the frame shuts and can be lifted out. Lift out the plates.

That followed the further filling and compaction of the trench.







PLANTOHYD S

Environmentally friendly hydraulic and lubricating oils based on synthetic ester (HEES), rapidly biodegradable acc. to OECD 301 B > 60%, awarded with the European Ecolabel (EEL), ISO VG 15 – 46: non water pollutant

Description

The products of the PLANTOHYD S-series are environmentally friendly, high-performance lubricating and hydraulic oils based on special synthetic esters. They can be used universally in the temperature range from -30 °C to +90 °C and are rapidly biodegradable according to the OECD 301 B test.

The products of the PLANTOHYD S series are awarded with the European Ecolabel EEL. They are based on > 50% sustainable raw materials and the ISO VG classes 15 – 45 are classified as non water pollutant according to the German legislation.

Application

The products of the PLANTOHYD S-series are synthetic, rapidly biodegradable oils based on sustainable raw materials (> 50%). They are exceptionally suitable for applications in mobile and stationary hydraulic systems, for which a rapidly biodegradable hydraulic oil according to ISO 15380, HEES, is recommended, especially if there is an environmental hazard to the ground, ground water or the surface waters due to leakage (construction, water resources management, agriculture, forestry).

In case of a change to the PLANTOHYD S series products the guidelines for changing fluids according to ISO 15380 must be observed.

Specifications

The products of the PLANTOHYD S-series fulfill or exceed the requirements according to:

- ISO 15380: HEES
- European Ecolabel (EEL) (Euro Margerite)

Advantages

- Based on sustainable raw materials, > 50%
- Good corrosion protection
- Rapidly biodegradable according to OECD 301 B > 60%
- Multigrade characteristics (rationalisation of varieties)
- Excellent lubricating properties
- · Very good viscosity temperature behaviour
- Good low-temperature behaviour
- · Highest shear stability
- Natural cleaning capacity
- · High ageing stability
- Excellent wear protection
- · Good material compatibility
- ISO VG 15 46: non water pollutant according to the German legislation

EU Ecolabel: PLANTOHYD 15 S: DE/027/154
PLANTOHYD 22 S: DE/027/155

PLANTOHYD 32 S: DE/027/156 PLANTOHYD 46 S: DE/027/157 PLANTOHYD 68 S: DE/027/158

PLANTOHYD 68 S: DE/02//1



Better for the environment...

- geringfügige Schädigung von Wasser und Boden bei der Anwendung
- enthält einen großen Anteil von Ausgangsstoffen auf biologischer Basis
- reduced harm for water and soil during use
- contains a large fraction of biobased material

... better for you.

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Environmentally friendly hydraulic and lubricating oils based on synthetic ester (HEES), rapidly biodegradable acc. to OECD 301 B > 60%, awarded with the European Ecolabel (EEL), ISO VG 15 – 46: non water pollutant

Typical technical data:

Product name		15	22	
Properties	Unit			Test method
ISO VG		15	22	DIN 51519
Kinematic viscosity at - 20 °C at 0 °C at 40 °C at 100 °C	mm²/s mm²/s mm²/s mm²/s	290 80 15 4.1	475 120 22 5.4	DIN EN ISO 3104
Viscosity index	-	191	198	DIN ISO 2909
Density at 15 °C	kg/m³	893	901	DIN 51757
Colour	ASTM	1.0	1.0	DIN ISO 2049
Flash point in open cup acc. to Cleveland	°C	200	200	DIN ISO 2592
Pourpoint	°C	-33	-33	DIN ISO 3016
Neutralisation number	mgKOH/g	0.7	0.7	DIN 51558-1
Scuffing and scoring test, FZG A/8.3/90	failure load stage	10	11	DIN ISO 14635-1
Air release at 50 °C	min	2	2	DIN ISO 9120
Vickers pump test, type V105C - weight loss vane - weight loss ring	mg mg	-	pass (< 30) pass (< 120)	DIN 51389
Effect on sealing materials: HNBR, 1008 h: - change of Shore A hardness - relative change of volume	Shore %	60 °C - 6.7 + 9.7	60 °C - 5.5 + 8.7	ISO 6072
FKM, 1008 h: - change of Shore A hardness - relative change of volume	Shore %	- 0.7 + 0.8	- 0.4 + 0.6	

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Environmentally friendly hydraulic and lubricating oils based on synthetic ester (HEES), rapidly biodegradable acc. to OECD 301 B > 60%, awarded with the European Ecolabel (EEL), ISO VG 15 – 46: non water pollutant

Typical technical data:

Product name		32	46	68	
Properties	Unit				Test method
ISO VG		32	46	68	DIN 51519
Kinematic viscosity at - 20 °C at 0 °C at 40 °C at 100 °C	mm²/s mm²/s mm²/s mm²/s	1060 205 32 7.1	1500 330 46 9.2	3300 590 68 12.3	DIN EN ISO 3104
Viscosity index	-	194	187	181	DIN ISO 2909
Density at 15 °C	kg/m³	910	920	924	DIN 51757
Colour	ASTM	1.0	1.0	1.0	DIN ISO 2049
Flash point in open cup acc. to Cleveland	°C	206	300	300	DIN ISO 2592
Pourpoint	°C	-36	-45	-36	DIN ISO 3016
Neutralisation number	mgKOH/g	0.8	1.1	1.1	DIN 51558-1
Scuffing and scoring test, FZG A/8.3/90	failure load stage	12	12	12	DIN ISO 14635-1
Air release at 50 °C	min	< 3	< 3	5	DIN ISO 9120
Vickers pump test, type V105C - weight loss vane - weight loss ring	mg mg	pass < 30 < 120	pass < 30 < 120	pass < 30 < 120	DIN 51389
Effect on sealing materials: HNBR, 1008 h:		80 °C	80 °C	100 °C	ISO 6072
change of Shore A hardnessrelative change of volume	Shore %	- 4.6 + 7.6	- 3.3 + 5.8	- 3.2 + 5.6	
FKM, 1008 h: - change of Shore A hardness - relative change of volume	Shore %	- 0.3 + 0.5	+ 1.1 + 0.5	+ 0.9 + 0.4	ISO 6072

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SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: PLANTOHYD 15 S

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

Identified uses: Hydraulic fluid

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier Fuchs Schmierstoffe GmbH

Friesenheimer Str. 19 68169 Mannheim

Telephone: +49 621 3701-0 (ZENTRALE)

Fax: +49 621 3701-570

Contact Person: Fuchs Schmierstoffe GmbH Abteilung Produktsicherheit

Telephone: +49 621 3701-1333 Fax: +49 621 3701-7303

E-mail: produktsicherheit@fuchs-schmierstoffe.de

1.4 Emergency telephone number: +49 621 3701-1333 / +49 621 3701-0 (Mo-Do 8-17, Fr 8-16)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous and does not need to be labelled according to regulation (EU) no 1272/2008 (CLP).

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements not applicable

2.3 Other hazards: By handling of mineral oil products and chemical products no particular

hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the

environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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SDS DE - EN - 000000000600980382

Version: 2.2



General information: Mixture of synthetic base oils with additives. The components are not

hazardous or are below required disclosure limits.

SECTION 4: First aid measures

General: Instantly remove any clothing soiled by the product.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and

delayed:

May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant

added

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or

mixture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire fighting

procedures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not

enter drains.

Special protective

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

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Print date: 26.12.2017 SDS DE - EN - 00000000600980382



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

In case of spills, beware of slippery floors and surfaces.

6.2 Environmental Precautions:

Prevent from spreading (e.g. by binding or oil barriers). Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning

up:

Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust). Dispose of the material collected according to regulations. Stop the flow of material, if this is without risk.

6.4 Reference to other

sections:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on

disposal.

SECTION 7: Handling and storage:

7.1 Precautions for safe

handling:

Prevent formation of aerosols. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Observe good industrial hygiene practices. Provide adequate ventilation.

7.2 Conditions for safe storage, including any

incompatibilities:

Local regulations concerning handling and storage of waterpolluting products have to be followed. Do not heat up to temperatures close to the

flash point.

7.3 Specific end use(s): No data available.

Storage Class: 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering

controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below

recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

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General information: Wash hands before breaks and after work. Use personal protective

equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the mineral oil products.

Eye/face protection: Safety glasses (EN 166) recommended during refilling.

Skin protection

Hand Protection: Material: Nitrile butyl rubber (NBR).

Min. Breakthrough time: >= 480 min

Recommended thickness of the material: >= 0,38 mm

Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser

pockets. Wear suitable protective clothing.

Respiratory Protection: Ensure good ventilation/exhaustion at the workplace. Avoid breathing

vapour/ aerosol.

Thermal hazards: Not known.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Pale ve

Color: Pale yellow Odor: Characteristic

Odor Threshold: Not applicable for mixtures

pH: not applicable

Freezing point: Not applicable for mixtures

Boiling Point: Value not relevant for classification

Flash Point: 200 °C

Evaporation Rate: Not applicable for mixtures

Flammability (solid, gas): Value not relevant for classification

Flammability Limit - Upper (%)—: Not applicable for mixtures
Flammability Limit - Lower (%)—: Not applicable for mixtures

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Vapor pressure: Not applicable for mixtures Vapor density (air=1): Not applicable for mixtures

Density: 0,89 g/ml (15,00 °C)

Solubility(ies)

Insoluble in water Solubility in Water: Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Autoignition Temperature: Value not relevant for classification **Decomposition Temperature:** Value not relevant for classification

Kinematic viscosity: 14,7 mm2/s (40,00 °C)

Explosive properties: Value not relevant for classification Oxidizing properties: Value not relevant for classification

9.2 Other information No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal use conditions.

10.2 Chemical Stability: Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

10.4 Conditions to avoid: Stable under normal use conditions.

Strong oxidizing substances. Strong acids. Strong bases. 10.5 Incompatible Materials:

10.6 Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral

Product:

Not classified for acute toxicity based on available data.

Dermal

Product:

Not classified for acute toxicity based on available data.

Inhalation

Product:

Not classified for acute toxicity based on available data.

Skin Corrosion/Irritation:

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

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6/9

Product name: PLANTOHYD 15 S

Serious Eye Damage/Eye Irritation:

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

Respiratory or Skin Sensitization:

Product: Skin sensitizer: Based on available data, the classification criteria are not

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

Germ Cell Mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Specific Target Organ Toxicity - Single Exposure

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

Specific Target Organ Toxicity - Repeated Exposure

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

Aspiration Hazard

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

Other adverse effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

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

Chronic ToxicityProduct: Based on available data, the classification criteria are not met.

12.2 Persistence and Degradability

Biodegradation

Product: Not applicable for mixtures

12.3 Bioaccumulative potential

Product: Not applicable for mixtures

12.4 Mobility in soil:

Product: Not applicable for mixtures

12.5 Results of PBT and vPvB The product does not contain any substances fulfilling the PBT/vPvB criteria.

assessment:

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12.6 Other adverse effects: No data available.

Water Hazard Class

(WGK):

AWG: General water endangering

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe

way. When storing used products, ensure that the waste categories and

mixing instructions are observed.

European Waste Codes

13 01 12*: readily biodegradable hydraulic oils

SECTION 14: Transport information

ADR/RID

14.1 UN Number: – 14.2 UN Proper Shipping Name: –

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): –
Hazard No. (ADR): –
Tunnel restriction code: –

14.4 Packing Group: –

14.5 Environmental hazards: –
14.6 Special precautions for user: –

ADN

14.1 UN Number: –

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): –

14.3 Packing Group: –

14.5 Environmental hazards: –

14.6 Special precautions for user: –

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IMDG

14.1 UN Number:

14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

Class: Non-dangerous goods

Label(s): –
EmS No.: –

14.3 Packing Group:14.5 Environmental hazards:14.6 Special precautions for user:

IATA

14.1 UN Number:

14.2 Proper Shipping Name: -

14.3 Transport Hazard Class(es):

Class: Non-dangerous goods

Label(s): –

14.4 Packing Group: –

14.5 Environmental hazards: –

14.6 Special precautions for user: –

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

National Regulations

Water Hazard Class

(WGK):

AWG: General water endangering

15.2 Chemical safety

assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

none

Other information: The classification complies with the current EU lists; however, it has been

supplemented with expert literature information and information provided by/about our company. It was derived from the test data and/or the

application of the conventional method.

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