

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 07/08/2012 Revision date: 24/03/2023 Supersedes version of: 14/02/2023 Version: 3.1

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

#### **1.1. Product identifier**

Product form Product name Product code

:	Mixture
:	43770 - HYDRAULIC OIL HV ZF 68
:	43770

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

#### 1.2.1. Relevant identified uses

Intended for general public Main use category Function or use category

: Industrial use, Professional use, Consumer use

: Hydraulic fluids and additives

1.2.2. Uses advised against

#### No additional information available

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

77 Lubricants B.V. NL- 1761 JA The Netherlands T +31 (0)78 6527652 technical@77lubricants.nl - www.77lubricants.nl

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Not classified

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 substance(s) are 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 %

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#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), solvent-dewaxed heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	≥ 55 – < 75	Not classified
Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	≥ 15 – < 25	Not classified

# SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Wash skin with plenty of water. First-aid measures after eye contact : Rinse eyes with water as a precaution. First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. 4.2. Most important symptoms and effects, both acute and delayed No additional information available

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 : Water spray. Dry powder. Foam. Carbon dioxide. Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread. 5.2. Special hazards arising from the substance or mixture Hazardous decomposition products in case of fire : Toxic fumes may be released. 5.3. Advice for firefighters Precautionary measures fire : Exercise caution when fighting any chemical fire. **Firefighting instructions** Use water spray or fog for cooling exposed containers. : Do not attempt to take action without suitable protective equipment. Self-contained Protection during firefighting breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipr	nent and emergency procedures			
6.1.1. For non-emergency personnel         Protective equipment       : Wear recommended personal protective equipment.         Emergency procedures       : Ventilate spillage area.				
6.1.2. For emergency responders Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for containment and cleaning up				
For containment Methods for cleaning up Other information	<ol> <li>Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.</li> <li>Take up liquid spill into absorbent material.</li> <li>Dispose of materials or solid residues at an authorized site.</li> </ol>			

#### 6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	: Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear personal protective equipment.			
Handling temperature	: ≤40 °C			
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			
7.2. Conditions for safe storage, in	cluding any incompatibilities			
Technical measures	: Provide local exhaust or general room ventilation.			
Storage conditions	: Store in a well-ventilated place. Keep cool.			
Storage temperature	: ≤40 °C			
Storage area	: Store in a well-ventilated place. Store away from heat.			
Special rules on packaging	: Keep only in original container. Store in a closed container.			

7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	5 mg/m³		
IOEL STEL 10 mg/m <sup>3</sup>			
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1] 5 mg/m <sup>3</sup>			

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Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
WEL STEL (OEL STEL) 10 mg/m <sup>3</sup>			
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	5 mg/m³		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1] 5 mg/m <sup>3</sup>			

## 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

# Eye protection:

Safety glasses

Eye protection				
Type         Field of application         Characteristics         Standard				
Safety glasses	Droplet	clear	EN 166	

#### 8.2.2.2. Skin protection

#### Skin and body protection: Wear suitable protective clothing

wear suitable protective cloth

## Hand protection:

Protective gloves

Hand protection					
Type         Material         Permeation         Thickness (mm)         Penetration         Standard				Standard	
	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes)	0.7	3 (> 0.65)	EN ISO 374

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Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Polyvinylchloride (PVC)	2 (> 30 minutes)	0.4	3 (> 0.65)	EN ISO 374

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

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

Physical state	: Liquid
Colour	: Yellow-brown.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -39 °C (ASTM D7346)
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 200 °C (ASTM D92)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 70.7 mm²/s @ 40°C (ASTM D7042)
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 877 kg/m³ @ 15°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

#### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal conditions of use.	
10.4. Conditions to avoid	
None under recommended storage and handling conditions (see section 7).	
10.5. Incompatible materials	
No additional information available	

**10.6. Hazardous decomposition products** 

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

cute toxicity (dermal) :	Not classified Not classified Not classified		
cute toxicity (dermal) :	Not classified Not classified		
	ov paraffinic (64742.65.0)		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
D50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test		
D50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test		
C50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test		
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)		
D50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test		
D50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test		
C50 inhalation (rat) (mg/l)	> 5000 mg/l/4h		
C50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test		
xin corrosion/irritation :	Not classified		
erious eye damage/irritation :	Not classified		
espiratory or skin sensitisation :	Not classified		
erm cell mutagenicity :	Not classified		
arcinogenicity :	Not classified		
eproductive toxicity :	Not classified		
TOT-single exposure :	Not classified		
TOT-repeated exposure :	Not classified		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
OAEL (oral, rat, 90 days)	125 mg/kg bodyweight		
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)		
OAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408		
spiration hazard :	Not classified		
3770 - HYDRAULIC OIL HV ZF 68			
/iscosity, kinematic	70.7 mm²/s @ 40°C (ASTM D7042)		
Distillates (petroleum), solvent-dewaxed heav	vy paraffinic (64742-65-0)		
/iscosity, kinematic	150 (1.99 – 847) mm²/s @40°C		

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11.2. Information on other hazards         bit additional information available         SECTION 12: Ecological information         12.1. Toxicity         Ecology - general       : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.         tazardous to the aquatic environment, short-term       : Not classified         acute)       : Not classified         tazardous to the aquatic environment, long-term       : Not classified         chonic)       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878		
11.2. Information on other hazards         bit additional information available         SECTION 12: Ecological information         12.1. Toxicity         Ecology - general       : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.         tazardous to the aquatic environment, short-term       : Not classified         acute)       : Not classified         tazardous to the aquatic environment, long-term       : Not classified         chonic)       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Bo additional information available         SECTION 12: Ecological information         Iter information         SECTION 12: Ecological information         Representation of the product is not considered harmful to aquatic organisms nor to cause long-lem adverse effects in the environment.         terest in the environment.         terost in the environment. <td colsp<="" td=""><td>Viscosity, kinematic</td><td>98 (98 – 108) mm²/s @40°C</td></td>	<td>Viscosity, kinematic</td> <td>98 (98 – 108) mm²/s @40°C</td>	Viscosity, kinematic	98 (98 – 108) mm²/s @40°C
SECTION 12: Ecological information         12.1. Toxicity         Ecology - general       : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.         tazardous to the aquatic environment, short-term       : Not classified         tazardous to the aquatic environment, long-term       : Not classified         tazardous to the aquatic environment, long-term       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Interpret term of the environment is not cause long-term adverse effects in the environment.         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Interpret term of the environment is not cause long-term adverse effects in the environment.         NOEC chronic fish       > 100 mg/l Daphnia magna       (140)         NOEC chronic rustacea       > 10 mg/l Paeutokirchneriela subcapitat (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)       Interpret term of the environment envir	11.2. Information on other hazards		
22.1. Toxicity         Cology - general       :: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.         tazardous to the aquatic environment, short-term       : Not classified         acute)       : Not classified         acute)       : Not classified         chronic)       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       : Not classified         NOEC chronic fish       > 100 mgi Pinnephales promelas         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)       : Not classified         LC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Crustacea [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinneiphale magna (21d)         NOEC chronic crustacea       10 mgi Paphini magna         IC50 - Fish [1]	No additional information available		
22.1. Toxicity         Cology - general       :: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.         tazardous to the aquatic environment, short-term       : Not classified         acute)       : Not classified         acute)       : Not classified         chronic)       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       : Not classified         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       : Not classified         NOEC chronic fish       > 100 mgi Pinnephales promelas         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)       : Not classified         LC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Crustacea [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinnephales promelas         EC50 - Fish [1]       > 100 mgi Pinneiphale magna (21d)         NOEC chronic crustacea       10 mgi Paphini magna         IC50 - Fish [1]			
Cology - general       : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.         Hazardous to the aquatic environment, long-term       : Not classified         acute)       : Not classified         acute)       : Not classified         Arazdous to the aquatic environment, long-term       : Not classified         Core State (1)       > 1000 mg/l Pimephales promelas         EC60 - Crustacea (1)       > 10000 mg/l Concorhynchus mykiss (14d)         NOEC chronic fish       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 10 mg/l Pimephales subcapitata (72h)         Distillates (petroleum), hydrotreated heavy partifici (64742-554-7)       EC50 - Crustacea (1)         NOEC chronic fish       1000 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae       > 100 mg/l Paphnia magna (21d)         NOEC chronic adgae	SECTION 12: Ecological information		
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chronic)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         LC50 - Fish [1]       > 100 mg/l Daphnia magna         NOEC chronic fish       > 100 mg/l Daphnia magna (21d)         NOEC chronic rustacea       > 100 mg/l Daphnia magna (21d)         NOEC chronic algae       > 100 mg/l Pesudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         LC50 - Fish [1]       > 100 mg/l Pesudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         LC50 - Fish [1]       > 100 mg/l Pesudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         LC50 - Fish [1]       > 100 mg/l Pesudokirchneriella subcapitat         NOEC chronic fish       1000 mg/l Daphnia magna         LC50 - Fish (1]       > 100 mg/l Pesudokirchneriella subcapitat         NOEC chronic rustacea [1]       > 100 mg/l Pesudokirchneriella subcapitat         NOEC chronic algae       > 100 mg/l Pesudokirchneriella subcapitat (72h)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Biodegradation         Biodegradation       31 % OECD 301 F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)       Biodegradation         Biodegradation       31 %	(acute)	Netslessified	
LC50 - Fish [1]       > 100 mg/l Pimephales promelas         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         NOEC chronic fish       > 100 mg/l Daphnia magna (21d)         NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy partfinic (64742-54-7)         LC50 - Fish [1]       > 100 mg/l Pimephales promelas         EC50 - Crustacea [1]       > 100 mg/l Paeudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy partfinic (64742-54-7)         LC50 - Fish [1]       > 100 mg/l Pimephales promelas         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         NOEC chronic fish       1000 mg/l Dapohnia magna (21d)         NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         Stellates (petroleum), solvent-dewaxed heavy partfinic (64742-65-0)         Biodegradation       31 % OECD 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy partfinic (64742-65-0)         Biodegradation       31 % OECD TG 301 F (28d)         23. Bioaccumulative potential       260         Distillates (pet	(chronic)	Not classified	
EC50 - Crustacea [1]       > 10000 mg/l Daphnia magna         NOEC chronic fish       > 100 mg/l Daphnia magna (21d)         NOEC chronic crustacea       > 100 mg/l Paeudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy partifinic (64742-54-7)       Image: Comparison of the magna         LC50 - Fish [1]       > 100 mg/l Daphnia magna         EC50 - Crustacea [1]       > 100 mg/l Daphnia magna         EC50 - Crustacea [1]       > 100 mg/l Daphnia magna         EC50 - Crustacea [1]       > 100 mg/l Daphnia magna         EC50 - Crustacea [1]       > 100 mg/l Daphnia magna         EC50 - Crustacea [1]       > 100 mg/l Daphnia magna         EC50 - Crustacea [1]       > 100 mg/l Daphnia magna         EC50 - Crustacea [1]       > 100 mg/l Daphnia magna         NOEC chronic fish       1000 mg/l Daphnia magna (21d)         NOEC chronic rustacea       10 mg/l Daphnia magna (21d)         NOEC chronic rustacea       100 mg/l Daphnia magna (21d)         Dist	Distillates (petroleum), solvent-dewaxed hea	vy paraffinic (64742-65-0)	
NOEC chronic fish       > 1000 mg/l Oncorthynchus mykiss (14d)         NOEC chronic crustacea       > 10 mg/l Daphnia magna (21d)         NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         LC50 - Fish [1]       > 1000 mg/l Pimephales promelas         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 - Stratacea [1]       > 1000 mg/l Daphnia magna         EC50 - Torustacea [1]       > 1000 mg/l Daphnia magna (21d)         NOEC chronic fish       1000 mg/l Oncorthynchus mykiss (14d)         NOEC chronic rustacea       10 mg/l Daphnia magna (21d)         NOEC chronic rustacea       10 mg/l Pseudokirchneriella subcapitata (72h)         NOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       260         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy p	LC50 - Fish [1]	> 100 mg/l Pimephales promelas	
NOEC chronic crustacea       > 10 mg/l Daphnia magna (21d)         NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)       Intervent of the subcapitata (72h)         LC50 - Fish [1]       > 100 mg/l Daphnia magna         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 72h - Algae [1]       > 1000 mg/l Daphnia magna (21d)         NOEC chronic fish       1000 mg/l Daphnia magna (21d)         NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitat         NOEC chronic crustacea       10 mg/l Daphnia magna (21d)         NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       10 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)       Biodegradability         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       Intervel paraffinic (64742-65-0)         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       Intervel paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260	EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna	
NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         LC50 - Fish [1]       > 100 mg/l Pimephales promelas         EC50 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         NOEC chronic fish       1000 mg/l Oncorthynchus mykiss (14d)         NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       at % OECD 301F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Biodegradation         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)       Persistence and degradability         Not readily biodegradable.       Biodegradation         31 % OECD TG 301 F (28d)       11         21.3. Bioaccumulative potential       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	NOEC chronic fish	> 1000 mg/l Oncorhynchus mykiss (14d)	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         LC50 - Fish [1]       > 100 mg/l Pimephales promelas         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 72h - Algae [1]       > 100 mg/l Pseudokirchneriella subcapitat         NOEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         NOEC chronic crustacea       10 mg/l Daphnia magna (21d)         NOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	NOEC chronic crustacea	> 10 mg/l Daphnia magna (21d)	
LC50 - Fish [1]       > 100 mg/l Pimephales promelas         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 72h - Algae [1]       > 100 mg/l Pseudokirchneriella subcapitat         NOEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         NOEC chronic crustacea       10 mg/l Daphnia magna (21d)         NOEC chronic crustacea       10 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       Postdokirchneriella subcapitata (72h)         12.2. Persistence and degradability       Solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)       Solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       Job CCD TG 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260       Zolventation factor (BCF REACH)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)       Pertition coefficient n-octanol/water (Log Pow)         3.9 – 6       Solvent-dewaxeed heavy paraffinic (64742-54-7)	NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata (72h)	
EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 72h - Algae [1]       > 100 mg/l Pseudokirchneriella subcapitat         NOEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         NOEC chronic crustacea       10 mg/l Daphnia magna (21d)         NOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301 F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       260         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)         Bioconcentration coefficient n-octanol/water (Log Pow)       3.9 – 6	Distillates (petroleum), hydrotreated heavy p	araffinic (64742-54-7)	
EC50 72h - Algae [1]       > 100 mg/l Pseudokirchneriella subcapitat         NOEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         NOEC chronic crustacea       10 mg/l Daphnia magna (21d)         NOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) <b>12.2. Persistence and degradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b> Biodegradation       31 % OECD 301F (28d) <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b> Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d) <b>Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-54-7)</b> Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d) <b>12.3. Bioaccumulative potential Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)</b> Bioconcentration factor (BCF REACH)       260 <b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b> Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	LC50 - Fish [1]	> 100 mg/l Pimephales promelas	
NOEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         NOEC chronic crustacea       10 mg/l Daphnia magna (21d)         NOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       3.9 – 6	EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna	
NOEC chronic crustacea       10 mg/l Daphnia magna (21d)         NOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       31 % OECD TG 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Bioconcentration factor (BCF REACH)         260       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitat	
NOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)         12.2. Persistence and degradability       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       31 % OECD TG 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Bioconcentration factor (BCF REACH)         260       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)	
12.2. Persistence and degradability         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       31 % OECD TG 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Bioconcentration factor (BCF REACH)         260       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Parition coefficient n-octanol/water (Log Pow)       3.9 – 6	NOEC chronic crustacea	10 mg/l Daphnia magna (21d)	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       31 % OECD TG 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       260         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Parititon coefficient n-octanol/water (Log Pow)       3.9 – 6	NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)	
Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       31 % OECD TG 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Bioconcentration factor (BCF REACH)         260       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	12.2. Persistence and degradability		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	Distillates (petroleum), solvent-dewaxed hea	vy paraffinic (64742-65-0)	
Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	Biodegradation	31 % OECD 301F (28d)	
Biodegradation       31 % OECD TG 301 F (28d)         12.3. Bioaccumulative potential       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
12.3. Bioaccumulative potential         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	Persistence and degradability	Not readily biodegradable.	
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	Biodegradation	31 % OECD TG 301 F (28d)	
Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	12.3. Bioaccumulative potential		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Partition coefficient n-octanol/water (Log Pow)       3.9 – 6	Distillates (petroleum), solvent-dewaxed hea	vy paraffinic (64742-65-0)	
Partition coefficient n-octanol/water (Log Pow) 3.9 – 6	Bioconcentration factor (BCF REACH)	260	
	Distillates (petroleum), hydrotreated heavy p	araffinic (64742-54-7)	
12.4. Mobility in soil	Partition coefficient n-octanol/water (Log Pow)	3.9 - 6	
	12.4. Mobility in soil		

#### No additional information available

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

2.5. Results of PBT and vPvB assessment
additional information available
2.6. Endocrine disrupting properties
additional information available
2.7. Other adverse effects
additional information available
ECTION 13: Disposal considerations

13.1. Waste treatment methods	
Waste treatment methods HP Code	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>HP3 - "Flammable:" <ul> <li>flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point &gt; 55 °C and ≤ 75 °C;</li> <li>flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;</li> <li>flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;</li> <li>flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a</li> </ul> </li> </ul>

standard pressure of 101.3 kPa; – water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;

– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

## **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number or ID n	umber	' '		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name	· · · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	class(es)	· · · · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group		· · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards	· · · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary informatio	on available	L		

Overland transport

Not applicable

Transport by sea

Not applicable

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Air transport

Not applicable

Inland waterway transport Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

**15.2. Chemical safety assessment** 

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
	Supersedes	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Indication of changes			
Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Removed	
2.2	EUH-statements	Added	
3	Composition/information on ingredients	Modified	
12.1	Ecology - general	Modified	

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	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	

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Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

#### The classification complies with

: ATP 8

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.