

Product form

Product name Product code

# 76640 - Hydraulic Oil HV ZF 68

# 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

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:	Mixture
:	76640 - Hydraulic Oil HV ZF 68
:	76640

#### 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**

Transnational Blenders bv Wieldrechtseweg, 37 NL– 3316 BG Dordrecht – Netherlands Zuid Holland Netherlands T +31 (0)78 6527652 technical@tnb.nl - www.tnb.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), 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	≥ 90	Not classified
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	≥1-<5	Not classified

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution.</li> <li>Call a poison center or a doctor if you feel unwell.</li> </ul>
4.2. Most important symptoms and effec	ts, 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 Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a water jet since it may cause the fire to spread.</li></ul>						
.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 Firefighting instructions Protection during firefighting	<ul> <li>Exercise caution when fighting any chemical fire.</li> <li>Use water spray or fog for cooling exposed containers.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>						

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SECTION 6: Accidental release measure	SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipm	nent and emergency procedures				
	: Wear recommended personal protective equipment. : 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 a	nd cleaning up				
For containment Methods for cleaning up Other information	<ul> <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> </ul>				

### 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, inc	luding 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/m <sup>3</sup>					
IOEL STEL	10 mg/m <sup>3</sup>				
United Kingdom - Occupational Exposure Limits	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)	EU - Indicative Occupational Exposure Limit (IOEL)				
IOEL TWA 5 mg/m <sup>3</sup>					
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

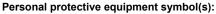
### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.





#### 8.2.2.1. Eye and face protection

# Eye protection:

Safety glasses

	Eye protection				
Туре		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

### Hand protection:

Protective gloves

Hand protection						
Туре	Material	Permeation	Thickness (mm)	Penetration	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	: 225 °C (ASTM D92)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 70 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.

SECTION 11: Toxicological information				
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008				
Acute toxicity (oral)       : Not classified         Acute toxicity (dermal)       : Not classified         Acute toxicity (inhalation)       : Not classified				
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)			
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test			
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test			
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test			
Distillates (petroleum), hydrotreated heavy pa	iraffinic (64742-54-7)			
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test			
LD50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test			
LC50 inhalation (rat) (mg/l)	> 5000 mg/l/4h			
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test			
Serious eye damage/irritation:Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:	Not classified Not classified Not classified Not classified Not classified Not classified Not classified Not classified Y paraffinic (64742-65-0)			
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight			
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)				
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408			
Aspiration hazard :	Not classified			
76640 - Hydraulic Oil HV ZF 68				
Viscosity, kinematic	70 mm²/s @ 40°C (ASTM D7042)			
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)			
Viscosity, kinematic	Viscosity, kinematic 150 (1.99 – 847) mm²/s @40°C			

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1.2. Information on other hazards         0 additional information available         SECTION 12: Ecological information         2.1. Toxicity         Cology - general       : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.         azardous to the aquatic environment, short-term       : Not classified         curley       : Not classified         azardous to the aquatic environment, long-term       : Not classified         CSO - Fih [1]       > 100 mg/ Pimephales promales         CSO - Crustacea [1]       > 1000 mg/ Donothynchus mykiss (14d)         OBCE chronic fish       > 1000 mg/ Donothynchus mykiss (14d)         OBCE chronic fish       > 1000 mg/ Paeudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated hoavy paraffinic (64742-65-7)       CGO - Fih [1]         CSO - Crustacea [1]       > 100 mg/ Paeudokirchneriella subcapitat         OEC chronic custacea       > 100 mg/ Paeudokirchneriella subcapitat         OEC chronic custacea       100 mg/ Donothynchus mykiss (14d)         OEC chronic custacea       100 mg/ Donothynchus mykiss (14d)         OEC chronic custacea       10 mg/l Daphnia magna         OEC chronic digae       > 100 mg/l Paeudokirchneriella subcapitat         OEC chronic digae       > 100 mg/l Paeudokirchneriella subcapitat      <	according to the REACH Regulation (EC) 1907/2006 amended	d by Regulation (EU) 2020/878
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SECTION 12: Ecological Information         2.1. Toxicity         cology - general       : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.         azardous to the aquatic environment, short-term       : Not classified         azardous to the aquatic environment, long-term       : Not classified         by:Bitlates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       CS0 - Fish [1]       > 100 mgil Pinephales promelas         CS0 - Fish [1]       > 100 mgil Daphnia magna       CS0 - Crustacea [1]       > 100 mgil Daphnia magna         OEC chronic fish       > 100 mgil Pieudokirchneriella subcapitata (72h)       CS0 - Fish [1]       > 100 mgil Pinephales promelas         CS0 - Crustacea [1]       > 100 mgil Pinephales promelas       CS0 - Crustacea (1)       > 100 mgil Pinephales promelas         CS0 - Crustacea [1]       > 100 mgil Pinephales promelas       CS0 - Crustacea [1]       > 100 mgil Pinephales promelas         CS0 - Crustacea [1]       > 100 mgil Pinephales promelas       CS0 - Crustacea [1]       > 100 mgil Pinephales promelas         CS0 - Crustacea [1]       > 100 mgil Pinephales promelas       CS0 - Crustacea [1]       > 100 mgil Pinephales promelas         CS0 - Crustacea [1]       > 100 mgil Pinephales promelas       CS0 - Crustacea [1]       > 100 mgil Pinephales promelas         CS0 - Crustacea [1]       > 100 mgi	11.2. Information on other hazards	
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effects in the environment.         azardous to the aquatic environment, ison-term       Not classified         iscuestion       Not classified         Distillates (petroleum), solvent-dewaxed hexy paraffinic (64742-65-0)       Secondation         CC0 - Fish [1]       > 1000 mg/l Pinnephales promelas         CC0 - Custacea [1]       > 1000 mg/l Daphnia magna         IOEC chronic fish       > 100 mg/l Daphnia magna (21d)         IOEC chronic rustacea       > 10 mg/l Pinnephales promelas         CC0 - Fish [1]       > 100 mg/l Paphnia magna (21d)         DIStillates (petroleum), hydrotreated heavy paraffinic (64742-65-7)       Secondation         CC0 - Fish [1]       > 100 mg/l Pinnephales promelas         CC0 - Fish [1]       > 100 mg/l Paphnia magna (21d)         DIStillates (petroleum), hydrotreated heavy paraffinic (64742-65-7)       Secondation         CC0 - Fish [1]       > 100 mg/l Paphnia magna (21d)         DISC chronic fish       1000 mg/l Conchrynchus mykiss (14d)         DISC chronic fish       100 mg/l Paphnia magna (21d)         DISC chronic algae       > 100 mg/l Paphnia magna (21d)         DISC chronic rustacea       10 mg/l Daphnia magna (21d)         DISC chronic rustacea       10 mg/l Daphnia magna (21d)         DISC chronic rustacea       10 mg/l Daphnia magna (21d)         DISC chroni	12.1. Toxicity	
azardous to the aquatic environment, short-term : Not classified trone: Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) C50 - Fish [1] > 100 mg/l Daphnia magna C50 - Grustacea [1] > 100 mg/l Daphnia magna C60 - Grustacea [1] > 100 mg/l Daphnia magna C60 - Grustacea [1] > 100 mg/l Daphnia magna C60 - Grustacea [1] > 100 mg/l Pseudokirchneriella subcapitata (72h) C60 - Fish [1] > 100 mg/l Daphnia magna C60 - Grustacea [1] > 100 mg/l Cacothynchus mykiss (14d) C60 - Grunic dugae 2 Do mg/l Pseudokirchneriella subcapitata (72h) C72. Parsistance and dagradability Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bistellates (petroleum), hydrotreated heavy paraffinic (64742-65-0) Bistellates (petroleum), hydrotreated heavy paraffinic (64742-65-0) Bistellates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bistellates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bistellates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0) Bistellates (petroleum), hydrotreated heavy paraffinic	Ecology - general :	The product is not considered harmful to aquatic organisms nor to cause long-term adverse
scardous to the aquatic environment, long-term         Is classified           Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         2000 mg/l Dephnia magna           C50 - Fush [1]         > 100 mg/l Dephnia magna           C60 - Grustacea [1]         > 100 mg/l Dephnia magna           C60 - Grustacea [1]         > 100 mg/l Dephnia magna           C60 - Grustacea [1]         > 100 mg/l Dephnia magna           C60 - Grustacea [1]         > 100 mg/l Pievadokirchneriella subcapitata (72h)           C60 - Grustacea [1]         > 100 mg/l Pievadokirchneriella subcapitata (72h)           C60 - Grustacea [1]         > 100 mg/l Pievadokirchneriella subcapitata (72h)           C60 - Grustacea [1]         > 100 mg/l Dephnia magna           C60 - Grustacea [1]         > 100 mg/l Dephnia magna           C60 - Grustacea [1]         > 100 mg/l Depundikrchneriella subcapitata (72h)           C60 - Grustacea [1]         > 100 mg/l Depundokirchneriella subcapitat           C60 - Grustacea [1]         > 100 mg/l Pievadokirchneriella subcapitata (72h)           C60 - Grustacea [1]         > 100 mg/l Pievadokirchneriella subcapitata (72h)           C60 - Grustacea and degradability         100 mg/l Pievadokirchneriella subcapitata (72h)           C60 - Grustacea and degradability         11 % OECD 301 F (284)           Distillates (petroleum), hydrotreated heavy         11 % OECD 130 1 F (	Hazardous to the aquatic environment, short-term	
hronic)       2000 mg/l Pinephales promelas         CS0 - Fish [1]       > 100 mg/l Pinephales promelas         CS0 - Crustacea [1]       > 1000 mg/l Daphnia magna         IOEC chronic fish       > 100 mg/l Daphnia magna (21d)         IOEC chronic rustacea       > 10 mg/l Daphnia magna (21d)         IOEC chronic rustacea       > 100 mg/l Pinephales promelas         CS0 - Fish [1]       > 100 mg/l Daphnia magna (21d)         IOEC chronic rustacea       > 100 mg/l Daphnia magna         CS0 - Fish [1]       > 100 mg/l Daphnia magna         CS0 - Fish [1]       > 100 mg/l Daphnia magna         CS0 - Crustacea [1]       > 100 mg/l Daphnia magna         CS0 - Crustacea [1]       > 100 mg/l Daphnia magna         CS0 - Crustacea [1]       > 100 mg/l Daphnia magna         CS0 - Crustacea [1]       > 100 mg/l Daphnia magna         CS0 - Crustacea [1]       > 100 mg/l Daphnia magna         CS0 - Crustacea [1]       > 100 mg/l Daphnia magna         CS0 - Crustacea [1]       > 100 mg/l Paseudokirchneriella subcapitat         CS0 - Crustacea [1]       > 100 mg/l Paseudokirchneriella subcapitat         CS0 - Crustacea [1]       > 100 mg/l Paseudokirchneriella subcapitat         CS0 - Crustacea [1]       > 100 mg/l Paseudokirchneriella subcapitat         CS0 - Erisitence and degradability       10 mg/	(acute)	
CC50 - Fish [1]       > 100 mg/l Pimephales promelas         CC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         LOEC chronic fish       > 1000 mg/l Daphnia magna (21d)         LOEC chronic rustacea       > 10 mg/l Pseudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy partifinic (64742-54-7)       -         LC50 - Fish [1]       > 100 mg/l Pseudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy partifinic (64742-54-7)       -         LC50 - Grustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         LC50 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         LC50 - Grustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         LC50 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         LC50 - Crustacea       10 mg/l Pseudokirchneriella subcapitat         LC50 - Crustacea       10 mg/l Pseudokirchneriella subcapitat (72h)         LC50 - Crustacea       10 mg/l Pseudokirchneriella subcapitata (72h)         L21 - Pseristence and degradability       31 % OECD 301 F (28d)         Distillates (petroleum), hydrotrea	Hazardous to the aquatic environment, long-term : (chronic)	Not classified
C50 - Crustacea [1]       > 10000 mg/l Daphnia magna         QCEC chronic fish       > 100 mg/l Daphnia magna (21d)         QCEC chronic drustacea       > 10 mg/l Daphnia magna (21d)         QCEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)       C50 - Fish [1]         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 1000 mg/l Daphnia magna         C50 - Crustacea [1]       > 1000 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       > 100 mg/l Daphnia magna         C50 - Crustacea [1]       10 mg/l Daphnia magna </td <td>Distillates (petroleum), solvent-dewaxed hea</td> <td>vy paraffinic (64742-65-0)</td>	Distillates (petroleum), solvent-dewaxed hea	vy paraffinic (64742-65-0)
ADEC chronic fish         > 1000 mg/l Oncorhynchus mykiss (14d)           ADEC chronic crustacea         > 10 mg/l Daphnia magna (21d)           ADEC chronic algae         > 100 mg/l Pseudokirchneriella subcapitata (72h)           Distillates (petroleum), hydrotreated heavy partificis (64742-54-7)         C60 - Fish [1]           C50 - Fish [1]         > 100 mg/l Daphnia magna           C50 - Grustacea [1]         > 1000 mg/l Daphnia magna           C50 72h - Algae [1]         > 1000 mg/l Daphnia magna           ADEC chronic fish         1000 mg/l Daphnia magna (21d)           ADEC chronic rustacea         10 mg/l Daphnia magna (21d)           ADEC chronic subcacea         10 mg/l Paeudokirchneriella subcapitata (72h)           Distillates (petroleum), solvent-dewaxed heavy partifinic (64742-65-0)         20      <	LC50 - Fish [1]	> 100 mg/l Pimephales promelas
ADD Control In a Data Carlow         ADD Data Data Carlow <t< td=""><td>EC50 - Crustacea [1]</td><td>&gt; 10000 mg/l Daphnia magna</td></t<>	EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna
AOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         CC50 - Fish [1]       > 100 mg/l Pimephales promelas         SC50 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         SC50 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         SC50 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         SC50 - Crustacea [1]       > 100 mg/l Oncorhynchus mykiss (14d)         SC50 - Chronic fish       100 mg/l Oncorhynchus mykiss (14d)         SC50 - Chronic crustacea       10 mg/l Pseudokirchneriella subcapitat (72h)         SC50 - Chronic crustacea       10 mg/l Pseudokirchneriella subcapitat (72h)         SC50 - Chronic crustacea       10 mg/l Pseudokirchneriella subcapitat (72h)         SC50 - Chronic algae       > 100 mg/l Pseudokirchneriella subcapitat (72h)         SC50 - Chronic algae       > 100 mg/l Pseudokirchneriella subcapitat (72h)         SC50 - Chronic algae       > 100 mg/l Pseudokirchneriella subcapitat (72h)         SC50 - Chronic algae       > 100 mg/l Pseudokirchneriella subcapitat (72h)         SC50 - Chronic algae       > 100 mg/l Pseudokirchneriella subcapitat (72h)         Sciedgeradation       31 % OECD 301F (28d)         Sciedgeradation       31 % OECD TG 301 F (28d)         Sciedgeradation <td< td=""><td>NOEC chronic fish</td><td>&gt; 1000 mg/l Oncorhynchus mykiss (14d)</td></td<>	NOEC chronic fish	> 1000 mg/l Oncorhynchus mykiss (14d)
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         AC50 - Fish [1]       > 100 mg/l Pimephales promelas         EC50 - Crustacea [1]       > 1000 mg/l Daphnia magna         EC50 72h - Algae [1]       > 100 mg/l Pseudokirchneriella subcapitat         ADEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         ADEC chronic rustacea       10 mg/l Daphnia magna (21d)         ADEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitat (72h)         2.2. 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 TG 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD TG 301 F (28d)         2.3. Bioaccumulative potential       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-55-0)         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)
CG0 - Fish [1]       > 100 mg/l Pimephales promelas         CG0 - Crustacea [1]       > 1000 mg/l Daphnia magna         CG0 - Fish [1]       > 100 mg/l Pseudokirchneriella subcapitat         CG0 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         CG0 - Crustacea [1]       > 100 mg/l Daphnia magna         CG0 - Crustacea [1]       > 100 mg/l Pseudokirchneriella subcapitat         AOEC chronic fish       100 mg/l Daphnia magna (21d)         AOEC chronic atgae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)         2.2. 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)         2.3. Bioaccumulative potential       260         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	NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata (72h)
EC50 - Crustacea [1]       > 10000 mg/l Daphnia magna         EC50 72h - Algae [1]       > 100 mg/l Pseudokirchneriella subcapitat         IOEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         IOEC chronic crustacea       10 mg/l Daphnia magna (21d)         IOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitat (72h)         2.2. 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)         2.3. 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)       260         Distillates (petroleum), hydrotreated 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 p	paraffinic (64742-54-7)
EC50 72h - Algae [1]       > 100 mg/l Pseudokirchneriella subcapitat         AOEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         AOEC chronic crustacea       10 mg/l Daphnia magna (21d)         AOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         AOEC chronic algae       > 100 mg/l Pseudokirchneriella subcapitata (72h)         2.2. 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)         2.3. Bioaccumulative potential       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Paraffinic coefficient n-octanol/water (Log Pow)       3.9 – 6	LC50 - Fish [1]	> 100 mg/l Pimephales promelas
AOEC chronic fish       1000 mg/l Oncorhynchus mykiss (14d)         AOEC chronic crustacea       10 mg/l Daphnia magna (21d)         AOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)         AOEC chronic algae       ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) <b>2.2. Persistence and degradability</b> Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Biodegradation       31 % OECD 301F (28d)         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-7)         Persistence and degradability       Not readily biodegradable.         Biodegradation       31 % OECD TG 301 F (28d)         2.3. Bioaccumulative potential       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-65-0)         Paratition coefficient n-octanol/water (Log Pow)       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)         2.2. 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)         2.3. Bioaccumulative potential       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Parafinic (64742-65-0)       8ioconcentration factor (BCF REACH)         260       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Parafition 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)         2.2. 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)         2.3. Bioaccumulative potential       31 % OECD TG 301 F (28d)         Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)       Bioconcentration factor (BCF REACH)         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 fish	1000 mg/l Oncorhynchus mykiss (14d)
2.2. 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)         2.3. 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)       2a         Paratition 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)         2.3. Bioaccumulative potential       Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)         Bioconcentration factor (BCF REACH)       260         Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)         Paratition 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)         2.3. 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	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)         2.3. 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)         2.3. 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)         2.3. 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 p	baraffinic (64742-54-7)
2.3. 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	baraffinic (64742-54-7)
2.4. 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
lo additional information available
2.6. Endocrine disrupting properties
lo additional information available
2.7. Other adverse effects
lo additional information available
SECTION 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 standard pressure of 101.3 kPa;</li> <li>water reactive waste: waste which, in contact with water, emits flammable gases in</li> </ul> </li> </ul>

- 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
I4.1. UN number or ID n	number	1		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	ig 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	zards	· · · · · ·	,	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information	on available	1	1	

14.6. Special precautions for user

Overland transport Not applicable

Transport by sea

Not applicable

# Safety Data Sheet

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

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	

# Safety Data Sheet

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	

# Safety Data Sheet

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

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.