

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 16/11/2011 Revision date: 12/01/2024 Supersedes version of: 23/03/2023 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
:	76300 - Motor Oil SF 20W-50
:	76300

#### 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 : Lubricants 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]		
EUH-statements	: EUH210 - Safety data sheet available on request.	
2.3. Other hazards		
Other hazards which do not result in classification	: Flammable liquids. Prolonged or repeated skin contact with the material will remove natural oils which leads to a dermatitis. Spills of this product present a serious slipping hazard.	

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

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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 %

#### **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	≥ 75	Not classified
Distillates (petroleum), hydrotreated light 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); substance with a Community workplace exposure limit	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077- 29	≥1-<5	Not classified
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts substance with national workplace exposure limit(s) (DE, SK)	CAS-No.: 85940-28-9 EC-No.: 288-917-4 REACH-no: 01-2119521201- 61	≥ 0.3 – < 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	CAS-No.: 85940-28-9 EC-No.: 288-917-4 REACH-no: 01-2119521201- 61	(15 ≤ C < 100) Skin Irrit. 2, H315 (15 ≤ C < 20) Eye Irrit. 2, H319 (20 ≤ C < 100) Eye Dam. 1, H318

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

#### **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 ef	fects, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>After adequate first aid, no further treatment is required unless symptoms reappear.</li> <li>After adequate first aid, no further treatment is required unless symptoms reappear.</li> <li>After adequate first aid, no further treatment is required unless symptoms reappear.</li> </ul>

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Symptoms/effects after ingestion

: After adequate first aid, no further treatment is required unless symptoms reappear.

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#### 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>	
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 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>	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective	equipment and emergency procedures		
General measures	: Avoid spilling the product, as this might cause falls.		
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. Wear suitable protective clothing, gloves and eye/face protection. For further information refer to section 8: "Exposure controls/personal protection".		

Avoid release to the environment.	
6.3. Methods and material for containment a	and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

6.2. Environmental precautions

For further information refer to section 13.

SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.
Handling temperature	: ≤40 °C
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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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), 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/m³	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	5 mg/m³	

#### 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):



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#### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Use splash goggles when eye contact due to splashing is possible. 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:

No special clothing/skin protection equipment is recommended under normal conditions of use. Avoid prolonged and repeated contact with skin. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn

#### Hand protection:

Breakthrough time : refer to the recommendations of the supplier

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	6 (> 480 minutes)	>0.35		EN ISO 374

#### Other skin protection

#### Materials for protective clothing:

Wear suitable protective clothing

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Particle filter. EN 143

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

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

: Liquid
: brown.
: Not available
: Not available
: Not applicable
: -33 °C (ASTM D7346)
: Not available
: Non flammable.
: Not available
: Not available
: > 201 °C (ASTM D92)
: Not available
: Not available
: Not available
: 155 mm²/s @ 40°C (ASTM D4052)
: insoluble in water.
: Not available

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

Vapour pressure	: < 0.1 hPa
Vapour pressure at 50°C	: Not available
Density	: 885 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

10.1. Reactivity

**10.2. Chemical stability** Stable under normal conditions.

10.4. Conditions to avoid

**10.5.** Incompatible materials

Strong oxidizing agents.

#### 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** 

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

None under recommended storage and handling conditions (see section 7).

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	d in Regulation (EC) No 1272/2008	
Acute toxicity (oral)       : Not classified         Acute toxicity (dermal)       : Not classified         Acute toxicity (inhalation)       : Not classified		
Distillates (petroleum), hydrotreated heavy pa	raffinic (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	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
LD50 oral (rat) > 5000 mg/kg 401 Acute Oral Toxicity Test		
.D50 dermal (rabbit) > 5000 mg/kg 402 Acute Dermal Toxicity Test		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test		

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Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)			
LD50 oral (rat)	3080 mg/kg OECD Guideline 401		
LD50 dermal (rabbit)	> 20000 mg/kg OECD Guideline 402		
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 2.3 mg/l/4h OECD Guideline 403		
Skin corrosion/irritation :	Not classified		
Serious eye damage/irritation :	Not classified		
Respiratory or skin sensitisation	Not classified		
Germ cell mutagenicity :	Not classified		
Carcinogenicity :	Not classified		
Reproductive toxicity :	Not classified		
STOT-single exposure :	Not classified		
STOT-repeated exposure :	Not classified		
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408		
Distillates (petroleum), hydrotreated light part	affinic (64742-55-8)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)		
Phosphorodithioic acid, mixed O,O-bis(2-ethy	lhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)		
NOAEL (subacute, oral, animal/female, 28 days)	125 mg/kg bodyweight 407 Repeated Dose 28-day Oral Toxicity Study in Rodents		
Aspiration hazard : Not classified			
76300 - Motor Oil SF 20W-50			
Viscosity, kinematic	155 mm²/s @ 40°C (ASTM D4052)		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
Viscosity, kinematic	≈ 98 mm²/s @ 40°C		
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)			
Viscosity, kinematic	< 20.5 mm²/s @40°C		
11.2. Information on other hazards			

No additional information available

SECTION 12: Ecological information			
12.1. Toxicity			
Hazardous to the aquatic environment, short-term : (acute)	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas		
EC50 - Crustacea [1]	> 10000 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)		

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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)		
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas		
EC50 - Crustacea [1]	> 10000 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)		
EC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h)			
Phosphorodithioic acid, mixed O,O-bis(2-ethy	lhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)		
LC50 - Fish [1] 4.5 mg/l Oncorhynchus mykiss			
EC50 - Crustacea [1]	> 5.4 mg/l Daphnia magna		
EC50 96h - Algae [1]	> 2.1 mg/l Selenastrum capricornutum		
NOEC chronic crustacea	0.4 mg/l Daphnia magna (21d)		
NOEC chronic algae 1 mg/l Selenastrum capricornutum (96h)			
42.2. Development and de vera de hilitik			

### 12.2. Persistence and degradability

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
rsistence and degradability Not readily biodegradable.		
Biodegradation	31 % OECD TG 301 F (28d)	
Distillates (petroleum), hydrotreated light par	raffinic (64742-55-8)	
Biodegradation	31 % OECD TG 301 F (28d)	
Phosphorodithioic acid, mixed O,O-bis(2-eth	ylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	1.5 % OECD 301B (28d)	
12.3. Bioaccumulative potential		
Distillates (petroleum), hydrotreated heavy p	araffinic (64742-54-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6	
Distillates (petroleum), hydrotreated light par	raffinic (64742-55-8)	
Partition coefficient n-octanol/water (Log Pow)	> 6	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)		
Partition coefficient n-octanol/water (Log Pow)	8.87 @ 20°C	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		

**12.6. Endocrine disrupting properties** 

No additional information available

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#### 12.7. Other adverse effects

No additional information available

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

## 13.1. Waste treatment methods

#### Waste treatment methods

Product/Packaging disposal recommendations

European List of Waste (LoW, EC 2000/532)

Dispose of contents/container in accordance with licensed collector's sorting instructions.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

: 13 02 05\* - mineral-based non-chlorinated engine, gear and lubricating oils

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

ADR	IMDG	ΙΑΤΑ	ADN	RID
I4.1. UN number or ID n	umber			
Not regulated for transport				
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			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

14.6. Special precautions for user

## Overland transport

No data available

Transport by sea No data available

## Air transport

No data available

Inland waterway transport No data available

## Rail transport

## No data available

14.7. Maritime transport in bulk according to IMO instruments

#### Not applicable

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#### **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	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Removed	
2.2	EUH-statements	Added	
10.5	Incompatible materials	Added	
13.1	European List of Waste (LoW, EC 2000/532)	Added	

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	

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

### Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH210	Safety data sheet available on request.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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Full text of H- and EUH-statements:	
H411	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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.