

Automatic transmission fluid

ATF POWER MBF is a high-quality fuel saving fully synthetic automatic transmission oil specially developed for the last generation MB (NAG-2) 7-speeds automatic transmissions. **ATF POWER MBF** is backwards compatible to automatic transmissions where a MB 236.12 specification is recommended.

ATF POWER MBF is based on special selected high performance synthetic base oil in combination with a special selected EP-additive package to reach to following properties:

- Excellent thermal- and oxidation stability.
- Excellent low temperature properties.
- Good shifting even at low temperatures.
- High Viscosity Index.
- Excellent shifting even after long use.
- Extended drain interval possible.
- Fuel saving properties.
- Excellent protection against the forming of foam, corrosion and wear.

ATF POWER MBF meets the following performance criteria:

MB 236.14 Ssang-Yong

Typical Analysis

Properties	Unit	Method	Typical Value
Color		visual	Red
Density @15°C	kg/m³	ASTM 4052	843
Kinematic Viscosity @ 40°C	mm²/s	ASTM D7042	27.2
Kinematic Viscosity @ 100°C	mm²/s	ASTM D7042	5.7
Viscosity Index		ASTM D2270	159
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D7346	-49
Date Issued: 26-1-2021	Supersedes: 04-0	8-2016 I	Revision Nr.: 01



Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 9/12/2017 Revision date: 4/29/2021 Supersedes version of: 8/16/2019 Version: 3.0

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

1.1. Product identifier

Product form	:	Mixture
Product name	:	73880 - ATF POWER MBF
Product code	:	73180

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

1.2.1. Relevant identified uses

: Professional use, Consumer use

1.2.2. Uses advised against

Main use category

No additional information available

1.3. Details of the supplier of the safety data sheet

North Sea Lubricants B.V. B.V. Ampèrestraat 5 NL– 3846AN Harderwijk The Netherlands T +31 651345369 support@northsealubricants.com - www.northsealubricants.com

1.4. Emergency telephone number

Emergency number

: +31 (0)786527652 Monday to Friday: 09:00 - 16:00 (CET)

SECTION 2: Hazards identificatio	n
2.1. Classification of the substance of	or mixture
Classification according to Regulation (EC Hazardous to the aquatic environment — Ch Full text of H- and EUH-statements: see sect	ronic Hazard, Category 3 H412
Adverse physicochemical, human health a Harmful to aquatic life with long lasting effect	
2.2. Label elements	
Labelling according to Regulation (EC) No	o. 1272/2008 [CLP]
Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) EUH-statements	 - H412 - Harmful to aquatic life with long lasting effects. P273 - Avoid release to the environment. P501 - Dispose of contents and container to an approved waste disposal plant. EUH208 - Contains 2-octadecenylsuccinic anhydride, thiodiethanol esterification products. May produce an allergic reaction.

2.3. Other hazards

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

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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; Baseoil substance with national workplace exposure limit(s) (BE, BG, CZ, DK, HR, NL, NO); 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	Asp. Tox. 1, H304
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert- butyl-4-hydroxyphenyl)propionate	CAS-No.: 125643-61-0 EC-No.: 406-040-9 EC Index-No.: 607-530-00-7 REACH-no: 01-0000015551- 76	0.1 – 2.5	Aquatic Chronic 4, H413
Reaction products of Benzeneamine, N-phenyl- with nonene (branched)	CAS-No.: 36878-20-3 EC-No.: 253-249-4 REACH-no: 01-2119488911- 28	0.1 – 2.5	Aquatic Chronic 4, H413 (M=0)
Reaction product of alkylthioalcohol and substituted phosphorus compound	EC-No.: 424-820-7 REACH-no: 01-00000171126- 75, 01-0000017126-75	0.1 – 0.5	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11- isoalkyloxy) derivs., C10-rich substance with a Community workplace exposure limit	CAS-No.: 398141-87-2 EC-No.: 800-172-4 REACH-no: 01-2119969520- 35	0.1 – 0.5	Aquatic Chronic 2, H411
2-octadecenylsuccinic anhydride, thiodiethanol esterification products	EC-No.: 299-434-3 REACH-no: 01-2120735527- 50	0.01 – 0.5	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water.
Rinse eyes with water as a precaution. 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.

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SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.		
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			
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective e	guipment and emergency procedures		
6.1.1. For non-emergency personnel 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 containm	ient and cleaning up		
Methods for cleaning up Other information	Take up liquid spill into absorbent material.Dispose of materials or solid residues at an authorized site.		

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions Storage temperature	 Store in a well-ventilated place. Keep cool. 0 - 40 °C
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

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Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³	
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA [ppm] 50 ppm		

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 symbol(s):



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

 Type
 Material
 Permeation
 Thickness (mm)
 Penetration
 Standard

 Reusable gloves
 Nitrile rubber (NBR), Neoprene rubber (HNBR)
 6 (> 480 minutes)
 ≥ 0.35
 3 (> 0.65)
 EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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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	: red.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -39 °C
Boiling point	: Not available
Flammability	: Not applicable
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 201 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 29 mm²/s @40°C
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	: 846 kg/m³ @15°C
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

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):Acute toxicity (dermal):Acute toxicity (inhalation):	Not classified Not classified Not classified		
Distillates (petroleum), hydrotreated heavy pa	raffinic; Baseoil (64742-54-7)		
LD50 oral (rat)	> 5000 mg/kg bodyweight		
LD50 dermal (rabbit)	> 5000 mg/kg		
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h		
reaction mass of isomers of: C7-9-alkyl 3-(3,5	-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)		
LD50 oral (rat)	> 2000 mg/kg		
LD50 dermal (rat)	> 2000 mg/kg		
Reaction products of Benzeneamine, N-pheny	Reaction products of Benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)		
LD50 oral (rat)	> 5000 mg/kg bodyweight		
LD50 dermal (rat)	> 2000 mg/kg		
Reaction product of alkylthioalcohol and sub	stituted phosphorus compound		
LD50 oral (rat)	> 2000 mg/kg bodyweight		
LD50 dermal (rabbit)	> 500 mg/kg bodyweight		
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-	Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)		
LD50 oral (rat)	4000 – 8000 mg/kg		
LD50 oral	> 10000 mg/kg		
2-octadecenylsuccinic anhydride, thiodiethanol esterification products			
LD50 oral (rat)	> 10000 mg/kg		
	Not classified		
	Not classified		
1 3	Not classified		
0, 1	Not classified		
Carcinogenicity :	Not classified		
Reproductive toxicity :	Not classified		
STOT-single exposure :	Not classified		
Reaction product of alkylthioalcohol and subs			
NOAEL (oral, rat)	150 mg/kg bodyweight		

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STOT-repeated exposure :	Not classified	
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil (64742-54-7)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight	
Reaction product of alkylthioalcohol and substituted phosphorus compound		
NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight	
Aspiration hazard :	Not classified	
73880 - ATF POWER MBF		
Viscosity, kinematic	29 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)	Harmful to aquatic life with long lasting effects. Not classified Harmful to aquatic life with long lasting effects.	
Distillates (petroleum), hydrotreated heavy pa	raffinic; Baseoil (64742-54-7)	
LC50 - Fish [1]	> 100 mg/l Pimephales promelas	
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna	
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss	
NOEC chronic crustacea	10 mg/l Daphnia magna	
NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata	
reaction mass of isomers of: C7-9-alkyl 3-(3,5	-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
LC50 - Fish [1]	> 74 mg/l Danio rerio	
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna	
EC50 72h - Algae [1]	> 3 mg/l Desmodesmus subspicatus	
NOEC (chronic)	≤ 0.01 mg/l Daphnia magna '21 d'	
Reaction products of Benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)		
LC50 - Fish [1]	> 100 mg/l Danio rerio	
EC50 - Crustacea [1]	> 100 mg/l Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Desmodesmus subspicatus	
NOEC chronic algae	> 10 mg/l Desmodesmus subspicatus	
Reaction product of alkylthioalcohol and substituted phosphorus compound		
LC50 - Fish [1]	1.5 mg/l	
EC50 72h - Algae [1]	0.31 mg/l	
LOEC (chronic)	0.35 mg/l Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.14 mg/l Daphnia magna Duration: '21 d'	

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Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)		
LC50 - Fish [1]	2.4 mg/l Oncorhynchus mykiss (Rainbow trout)	
EC50 - Crustacea [1]	4.6 mg/l Daphnia magna	
EC50 72h - Algae [1]	63 mg/l Desmodesmus subspicatus	
NOEC chronic algae	0.313 mg/l Desmodesmus subspicatus	
12.2. Persistence and degradability		
Distillates (petroleum), hydrotreated heavy pa	raffinic; Baseoil (64742-54-7)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % 28 d OECD 301F	
reaction mass of isomers of: C7-9-alkyl 3-(3,5	-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)	
Persistence and degradability	Not biodegradable.	
Biodegradation	1 % 28D	
Reaction products of Benzeneamine, N-pheny	/I- with nonene (branched) (36878-20-3)	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	0 %	
Reaction product of alkylthioalcohol and substituted phosphorus compound		
Biodegradation	52.9 % 60 D OECD 301B	
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	9.6 %	
12.3. Bioaccumulative potential		
Distillates (petroleum), hydrotreated heavy pa	raffinic; Baseoil (64742-54-7)	
Partition coefficient n-octanol/water (Log Kow)	> 4	
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)		
Bioconcentration factor (BCF REACH)	260 35 D, Oncorhynchus mykiss (regenboogforel)	
Partition coefficient n-octanol/water (Log Pow)	9.2	
Reaction products of Benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)		
Bioconcentration factor (BCF REACH)	1584.89	
Partition coefficient n-octanol/water (Log Pow)	>7	
Bioaccumulative potential	Bioaccumulative potential.	
Reaction product of alkylthioalcohol and substituted phosphorus compound		
Partition coefficient n-octanol/water (Log Pow)	0.28	
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-	isoalkyloxy) derivs., C10-rich (398141-87-2)	
Bioconcentration factor (BCF REACH)	27.54	
Partition coefficient n-octanol/water (Log Kow)	4.1	
Bioaccumulative potential	Bioaccumulative potential.	

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12.4. Mobility in soil		
reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (125643-61-0)		
Ecology - soil	Adsorbs into the soil.	
Reaction products of Benzeneamine, N-phenyl- with nonene (branched) (36878-20-3)		
Ecology - soil	Adsorbs into the soil.	
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)		
Ecology - soil	Adsorbs into the soil.	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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)		1	
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

14.6. Special precautions for user

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

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

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	

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Abbreviations and acronyms:		
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:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4	
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH208	Contains 2-octadecenylsuccinic anhydride, thiodiethanol esterification products. May produce an allergic reaction.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	

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Full text of H- and EUH-statements:	
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Sens. 1	Skin sensitisation, Category 1

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.