Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 30/08/2013 Revision date: 19/06/2017 Supersedes: 14/12/2015 Version: 3.0

SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Mixture		
Product name	: WOLF OFFICIALTECH ATF MB FE		
Product code	: 3013		
Product group	: Blend		
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Intended for general public			
Main use category	: Industrial use, Professional use, Consumer use		
Industrial/Professional use spec	: Non-dispersive use		
Function or use category	Used in closed systems : Lubricants and additives		
1.2.2. Uses advised against			
No additional information available 1.3. Details of the supplier of the safety d	lata shoot		
WOLF OIL CORPORATION N.V.			
Georges Gilliotstraat, 52			
2620 Hemiksem - België			
T 0032 (0)3 870 00 00 - F 0032 (0)3 870 00 99 info@wolfoil.com			
1.4. Emergency telephone number			
Emergency number	: +32 14 58 45 45 (NL/EN/FR/DE)		
SECTION 2: Hazards identification			
2.1. Classification of the substance or mi	ixture		
Classification according to Regulation (EC) No	o. 1272/2008 [CLP]		
Aspiration hazard, Category 1	H304		
Hazardous to the aquatic environment - Chronic	Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412		
Full text of H statements : see section 16			
Adverse physicochemical, human health and	environmental effects		
No additional information available			
2.2. Label elements			
Labelling according to Regulation (EC) No. 12	72/2008 [CLP]		
Hazard pictograms (CLP)	:		
	GHS08		
Signal word (CLP)	: Danger		
Hazardous ingredients	: Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based		
Hazard statements (CLP)	: H304 - May be fatal if swallowed and enters airways H412 - Harmful to aquatic life with long lasting effects		
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand		
	P102 - Keep out of reach of children P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor		
	P331 - Do NOT induce vomiting		
	P405 - Store locked up P501 - Dispace of contents/container in accordance with local/regional/actional/interactional		
	P501 - Dispose of contents/container in accordance with local/regional/national/international regulations		
EUH-statements	: EUH208 - Contains 4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate. May produce an		
	allergic reaction		
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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	(CAS No) 72623-87-1 (EC no) 276-738-4 (EC index no) 649-483-00-5 (REACH-no) 01-2119474889-13	75 - 95	Asp. Tox. 1, H304
Bis(nonylphenyl)amine	(CAS No) 36878-20-3 (EC no) 253-249-4 (REACH-no) 01-2119488911-28	1 - 2,49	Aquatic Chronic 4, H413
Reaction mass of isomers of C7-9-alkyl 3-(3,5-di-trans-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	1 - 2,49	Aquatic Chronic 4, H413
Baseoil - unspecified	(CAS No) 72623-86-0 (EC no) 276-737-9 (EC index no) 649-482-00-X (REACH-no) 01-2119474878-16	1 - 2,49	Asp. Tox. 1, H304
Isooctadecanoic acid, reaction products with tetraethylenepentamine	(EC no) 272-225-4 (REACH-no) 01-2119960832-33	0,1 - 0,49	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Thiophene, tetrahydro-, 1, 1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich	(CAS No) 398141-87-2 (EC no) 800-172-4 (REACH-no) 01-2119969520-35	0,1 - 0,49	Aquatic Chronic 2, H411
Reaction product of alkylthioalcohol and substituted phosphorus compound	(EC no) 424-820-7 (REACH-no) 01-0000017126-75	0,1 - 0,24	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	(EC no) 299-434-3	0,1 - 0,24	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Not expected to require first aid measures.
First-aid measures after skin contact	: Wash skin with mild soap and water.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/injuries after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/injuries after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/injuries after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/injuries after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
4.3. Indication of any immediate media	al attention and special treatment needed
No additional information available	

SECTION 5: Firefighting meas	ures	
5.1. Extinguishing media		
Suitable extinguishing media	: Water fog. Foam. Powder. Dry chemical product.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Special hazards arising from	2. Special hazards arising from the substance or mixture	
No additional information available		

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according to Regulation (EC) No. 1907/2006 (RI	
5.3. Advice for firefighters	
Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release	e measures
6.1. Personal precautions, protect	ctive equipment and emergency procedures
6.1.1. For non-emergency personn	el
Protective equipment	: Wear suitable protective clothing and gloves.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing and gloves.
6.2. Environmental precautions	
	rs. Notify authorities if product enters sewers or public waters.
6.3. Methods and material for co	ntainment and cleaning up
For containment	: Impound and recover large spill by mixing it with inert granular solids.
Methods for cleaning up	: Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.
Other information	: Spill area may be slippery. Use suitable disposal containers.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stor	
SECTION 7: Handling and stor	aye
7.1. Precautions for safe handlin	
7.1. Precautions for safe handlin	g : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually
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 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 7.2. Conditions for safe storage, 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 7.2. Conditions for safe storage, Storage temperature 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. including any incompatibilities < 40 °C
 7.1. Precautions for safe handling Precautions for safe handling Handling temperature Hygiene measures 7.2. Conditions for safe storage, Storage temperature Storage area 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. including any incompatibilities < 40 °C
 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 7.2. Conditions for safe storage, Storage temperature Storage area 7.3. Specific end use(s) 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. including any incompatibilities < 40 °C Store in dry, cool, well-ventilated area.
 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 7.2. Conditions for safe storage, Storage temperature Storage area 7.3. Specific end use(s) No additional information available 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. including any incompatibilities < 40 °C Store in dry, cool, well-ventilated area.
 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 7.2. Conditions for safe storage, Storage temperature Storage area 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. including any incompatibilities < 40 °C Store in dry, cool, well-ventilated area.
 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 7.2. Conditions for safe storage, Storage temperature Storage area 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls 8.1. Control parameters 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. including any incompatibilities < 40 °C Store in dry, cool, well-ventilated area. S/personal protection 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis
 7.1. Precautions for safe handlin Precautions for safe handling Handling temperature Hygiene measures 7.2. Conditions for safe storage, Storage temperature Storage area 7.3. Specific end use(s) No additional information available SECTION 8: Exposure controls 8.1. Control parameters Additional information 	 g Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. including any incompatibilities < 40 °C Store in dry, cool, well-ventilated area. S/personal protection 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis

Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.



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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Oily liquid.	
Colour	: Blue.	
Odour	: Characteristic.	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: > 150 °C @ ASTM D92	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 842 kg/m³ @15°C	
Solubility	: Slightly soluble, the product remains on the water surface.	
Log Pow	: No data available	
Viscosity, kinematic	: 17 mm²/s @ 40°C	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		
No additional information available		

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SECT	ION 10: Stability and reactivity
10.1.	Reactivity
None u	nder normal conditions.
10.2.	Chemical stability
Stable u	under normal conditions.
10.3.	Possibility of hazardous reactions
None u	nder normal conditions.
10.4.	Conditions to avoid
No data	a available.
10.5.	Incompatible materials
Strong	oxidizers. acids. Bases.
10.6.	Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity :	Not classified	
Bis(nonylphenyl)amine (36878-20-3)		
LD50 oral rat	> 5000 mg/kg OECD 401	
LD50 dermal rat	> 2000 mg/kg OECD 402	
Reaction mass of isomers of C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate (125643-61-0)		
LD50 oral rat	> 2000 mg/kg OECD 401	
LD50 dermal rat	> 2000 mg/kg OECD 402	

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Reaction product of alkylthioalcohol and substituted phosphorus compound		
LD50 oral	> 2000 mg/kg 67/548/EEG Annex V,B1	
LD50 dermal	> 500 mg/kg 67/548/EEG AnnexV, B3	
4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate		
LD50 oral	> 10000 mg/kg	
Isooctadecanoic acid, reaction products with tetraethylenepentamine		
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
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	
Specific target organ toxicity (single exposure)	: Not classified	
Isooctadecanoic acid, reaction products with tetraethylenepentamine		
NOAEL (oral, rat)	> 1000 mg/kg bodyweight OECD 421	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: May be fatal if swallowed and enters airways.	
WOLF OFFICIALTECH ATF MB FE		
Viscosity, kinematic	17 mm²/s @ 40°C	
	17 mm²/s @ 40°C	

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment	
Bis(nonylphenyl)amine (36878-20-3)		
LC50 fish 1	> 100 mg/l OECD 203 (Danio rerio @96h)	
EC50 Daphnia 1	> 100 mg/l OECD 202 (Daphnia magna)	
EC50 72h algae (1)	> 100 mg/I OECD 201 (Desmodesdus subspicatus)	
Reaction mass of isomers of C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate (125643-61-0)		
LC50 fish 1	> 74 mg/l OECD 203, (Danio rerio, 96h)	
EC50 Daphnia 1	> 100 mg/l OECD 202, (Daphnia magna, 24h)	
EC50 other aquatic organisms 1	0 mg/l	

	o mg/i
EC50 72h algae (1)	> 3 mg/l OECD 201, (Desmodesmus subspicatus, 72h)
Reaction product of alkylthioalcohol and substituted phosphorus compound	
LC50 fish 1	1,5 mg/l OECD203 - Oncorhynchus mykiss
EC50 Daphnia 1	0,09 mg/l OECD 202 - EL50
EC50 72h algae (1)	0,31 mg/l 67/548/EEG Annex V,C3
NOEC (chronic)	0,14 (0,01 - 0,1) mg/l Daphnia
4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
LC50 fish 1	> 1000 mg/l 96h Cyprinodon variegatus - OECD 203
LC50 fish 2	> 100 mg/l 96h Oryzias latipes - OECD 203
EC50 Daphnia 1	9,5 mg/l OECD 202
EC50 other aquatic organisms 1	> mg/l
EC50 72h algae (1)	> 100 mg/l Pseudokirchneriella subscapitata - OECD 201
Isooctadecanoic acid, reaction products with tetraethylenepentamine	
LC50 fish 1	> 1000 mg/l OECD 203
EC50 Daphnia 1	> 1000 mg/l OECD 202

12.2. Persistence and degradability		
WOLF OFFICIALTECH ATF MB FE		
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
Bis(nonylphenyl)amine (36878-20-3)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	1 % @28d	
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Reaction mass of isomers of C7-9-alkyl 3-(3,5	-di-trans-butyl-4-hydroxyphenyl)propionate (125643-61-0)
Persistence and degradability	The product is not biodegradable.
Reaction product of alkylthioalcohol and sub	stituted phosphorus compound
Persistence and degradability	Not readily biodegradable.
Biodegradation	52,9 % @60d - OECD 301B - 10mg/l
4,4'-thiodiethylene hydrogen -2-octodecenyls	succinate
Persistence and degradability	Not readily biodegradable.
Biodegradation	11 - 14 % OECD 301
Isooctadecanoic acid, reaction products with	tetraethylenepentamine
Persistence and degradability	Readily biodegradable.
Thiophene, tetrahydro-, 1, 1-dioxide, 3-(C9-11	-isoalkyloxy) derivs. C10-rich (398141-87-2)
Persistence and degradability	Not readily biodegradable.
12.3. Bioaccumulative potential	
•	
Bis(nonylphenyl)amine (36878-20-3)	
Log Pow	> 7,6
Bioaccumulative potential	Potential to bioaccumulate.
	j-di-trans-butyl-4-hydroxyphenyl)propionate (125643-61-0)
BCF fish 1	260 OECD 305 (Oncorhynchus mykiss, 35d)
Log Pow	9,2
Reaction product of alkylthioalcohol and sub	stituted phosphorus compound
Bioaccumulative potential	Potential to bioaccumulate.
4,4'-thiodiethylene hydrogen -2-octodecenyls	succinate
Bioaccumulative potential	Potential to bioaccumulate.
Thiophene, tetrahydro-, 1, 1-dioxide, 3-(C9-11	-isoalkyloxy) derivs., C10-rich (398141-87-2)
Bioaccumulative potential	Potential to bioaccumulate.
12.4. Mobility in soil	
Bis(nonylphenyl)amine (36878-20-3)	
Ecology - soil	Adsorbs into the soil.
	5-di-trans-butyl-4-hydroxyphenyl)propionate (125643-61-0)
Ecology - soil	Adsorbs into the soil.
Reaction product of alkylthioalcohol and sub	
Ecology - soil	Adsorbs into the soil.
Baseoil - unspecified (72623-86-0)	
Ecology - soil	Adsorbs into the soil.
4,4'-thiodiethylene hydrogen -2-octodecenyls	succinate
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 assessmen	t
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	S
	S
SECTION 13: Disposal consideration 13.1. Waste treatment methods Additional information	 S : Dispose in a safe manner in accordance with local/national regulations.
13.1. Waste treatment methods Additional information	
13.1. Waste treatment methods Additional information SECTION 14: Transport information	: Dispose in a safe manner in accordance with local/national regulations.
13.1. Waste treatment methods	: Dispose in a safe manner in accordance with local/national regulations.
13.1. Waste treatment methods Additional information SECTION 14: Transport information	: Dispose in a safe manner in accordance with local/national regulations.

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable

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14.2. UN proper shipping name Proper Shipping Name (ADR) : Not applicable Proper Shipping Name (IATA) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (ADN) : Not applicable Proper Shipping Name (RD) : Not applicable Proper Shipping Name (RD) : Not applicable 14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) : Not applicable MDG : Not applicable Transport hazard class(es) (MDG) : Not applicable MTA : Not applicable Transport hazard class(es) (IMDG) : Not applicable MDB : Not applicable Transport hazard class(es) (IATA) : Not applicable MD : Not applicable ADN : Not applicable Transport hazard class(es) (RDN) : Not applicable Packing group (ADR) : Not applicable Transport hazard class(es) (RID) : Not applicable Packing group (ADR) : Not applicable Packing group (ADR) : Not applicable Packing group (ADR) : Not applicable Packi	UN-No. (RID)	: Not applicable
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Proper Shipping Name (ADN) i. Not applicable Proper Shipping Name (RID) i. Not applicable 14.3. Transport hazard class(es) I ADR I Transport hazard class(es) (ADR) i. Not applicable IMDG I Transport hazard class(es) (IMDG) i. Not applicable IMTA I Transport hazard class(es) (IMDG) i. Not applicable IATA I Transport hazard class(es) (IATA) i. Not applicable ADN I Transport hazard class(es) (IATA) i. Not applicable ADN I Transport hazard class(es) (RIDN) i. Not applicable RID I Transport hazard class(es) (RID) i. Not applicable Packing group (ADR) i. Not applicable Packing group (ADR) i. Not applicable Packing group (MDG) i. Not applicable Packing group (MDG) i. Not applicable Packing group (MDG) i. Not applicable Packing group (ADN) i. Not applicable Packing group (ADN) i. Not applicable Packing	Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (RID) : Not applicable 14.3. Transport hazard class(es) Import Hazard class(es) ADR : Not applicable Transport hazard class(es) (ADR) : Not applicable IMDC : Not applicable IATA : Not applicable Transport hazard class(es) (IATA) : Not applicable ADN : Not applicable Transport hazard class(es) (ADN) : Not applicable ADN : Not applicable Transport hazard class(es) (ADN) : Not applicable RID : Not applicable Transport hazard class(es) (ADN) : Not applicable Packing group (ADR) : Not applicable Packing group (ADN) : N	Proper Shipping Name (IATA)	: Not applicable
14.3. Transport hazard class(es) ADR Transport hazard class(es) (ADR) : Not applicable IMDG Transport hazard class(es) (IMDG) : Not applicable IATA Transport hazard class(es) (IATA) : Not applicable ADN Transport hazard class(es) (IATA) : Not applicable ADN Transport hazard class(es) (ADN) : Not applicable ADN Transport hazard class(es) (ADN) : Not applicable RID Transport hazard class(es) (RID) : Not applicable Packing group (ADR) : Not applicable Packing group (ADN) : Not applicable Packing group (ADN) : Not applicable Packing group (ADN) : Not applicable Packing group (RDD) : N	Proper Shipping Name (ADN)	: Not applicable
ADRTransport hazard class(es) (ADR): Not applicableIMDGTransport hazard class(es) (IMDG): Not applicableIATATransport hazard class(es) (IATA): Not applicableADNTransport hazard class(es) (ADN): Not applicableRIDTransport hazard class(es) (RDD): Not applicableRIDTransport hazard class(es) (RDN): Not applicablePacking group (ADR): Not applicablePacking group (ADR): Not applicablePacking group (IMDG): Not applicablePacking group (IMDG): Not applicablePacking group (RDN): Not applicablePartonmental hazards </td <td>Proper Shipping Name (RID)</td> <td>: Not applicable</td>	Proper Shipping Name (RID)	: Not applicable
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		. No supprementary information available
14.6. Special precautions for user	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. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

15.1.2. National regulations

Germany

VwVwS Annex reference	: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Isooctadecanoic acid, reaction products with tetraethylenepentamine is listed
SZW-lijst van mutagene stoffen	: Isooctadecanoic acid, reaction products with tetraethylenepentamine is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes	5:		
Section	Changed item	Change	Comments
2.2	Label elements	Modified	
3.2	Composition/information on ingredients	Modified	

Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists	
TWA: Time Weighted Average	
TLV: Threshold Limit Value	
ASTM: American Society for Testing and Materials	
ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route	
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail	
ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin	
IMDG: International Maritime Dangerous Goods	
ICAO: International Civil Aviation Organization	
IATA: International Air Transport Association	
STEL: Short Term Exposure Limit	
LD50: median Lethal Dose for 50% of subjects	
ATE: acute toxicity estimate	
LC50: median Lethal Concentration for 50% of subjects	
EC50: concentration producing 50% effect	

Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Sensitisation — Skin, Category 1	
H304	May be fatal if swallowed and enters airways	
H312	Harmful in contact with skin	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
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	
H412	Harmful to aquatic life with long lasting effects	
H413	May cause long lasting harmful effects to aquatic life	
EUH208	Contains . May produce an allergic reaction	

SDS EU (REACH Annex II)

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