

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 26/03/2019 Revision date: 01/10/2019 Supersedes: 23/09/2019 Version: 1.3

SECTION 1: Identification of the subs	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Name	: AMPRO Slow Hardener
Type of product	: Hardener (Crosslinker)
	: Hardener
Product group	
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	: None
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety d	ata sheet
Gurit (UK) Ltd St Cross Business Park	
Newport	
PO30 5WU Isle of Wight - United Kingdom	
T +44 (0) 1983 828 000 (All Technical and Comm	iercial Enquiries)
Regulatory@gurit.com - www.gurit.com	
1.4. Emergency telephone number	
Emergency number	: Carechem 24: +44 (0) 1273 289451 24 Hours
SECTION 2: Hazards identification	
2.1. Classification of the substance or mi	xture
Classification according to Regulation (EC) No	1272/2008 ICL P1
Acute toxicity (oral), Category 4	H302
	H314
Skin corrosion/irritation, Category 1B	
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment — Chronic	Hazard, Category 3 H412
Full text of H statements : see section 16	
Adverse physicochemical, human health and	anvironmental effects
	and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Harmful to
aquatic life with long lasting effects.	and eye damage. May cause an allergic skin reaction. Causes senous eye damage. Harmidi to
2.2. Label elements	
Labelling according to Regulation (EC) No. 12	72/2008 [CLP]
Hazard pictograms (CLP)	
	V V
	GHS05 GHS07
Signal word (CLP)	: Danger
Hazardous ingredients	: 3-aminomethyl-3,5,5-trimethylcyclohexylamine; 1,3-Benzenedimethanamine;
	Trimethylhexamethylenediamine; Propylene glycol diamine, 2-amino-, diether with
	Propylene; benzyl alcohol; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 5-amino-
	1,3,3-trimethylcyclohexanemethanamine and (chloromethyl)oxirane; 1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl-; Phenol, styrenated
Hazard atotomonte (CLD)	
Hazard statements (CLP)	: H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage.
	H317 - May cause an allergic skin reaction.
	H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P102 - Keep out of reach of children.
	P260 - Do not breathe vapours.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P273 - Avoid release to the environment.

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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable 3.2. Mixtures

3.2. WIXTURES			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-aminomethyl-3,5,5-trimethylcyclohexylamine	(CAS-No.) 2855-13-2 (EC-No.) 220-666-8 (EC Index-No.) 612-067-00-9 (REACH-no) 01-2119514687-32	10 - 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412
1,3-Benzenedimethanamine	(CAS-No.) 1477-55-0 (EC-No.) 216-032-5 (REACH-no) 01-2119480150-50	< 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Propylene glycol diamine, 2-amino-, diether with Propylene	(CAS-No.) 9046-10-0 (REACH-no) 01-2119557899-12	10 - 25	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Trimethylhexamethylenediamine	(CAS-No.) 25620-58-0 (EC-No.) 247-134-8	< 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317
benzyl alcohol	(CAS-No.) 100-51-6 (EC-No.) 202-859-9 (EC Index-No.) 603-057-00-5 (REACH-no) 01-2119492630-38	>= 3	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 5- amino-1,3,3-trimethylcyclohexanemethanamine and (chloromethyl)oxirane	(CAS-No.) 38294-64-3; 68609-08-5 (REACH-no) 01-2119965165-33	1 - 5	Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412
1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl-	(CAS-No.) 25513-64-8 (EC-No.) 247-063-2 (REACH-no) 01-2119560598-25	1 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
Phenol, styrenated	(CAS-No.) 61788-44-1 (EC-No.) 262-975-0	< 3	Skin Irrit. 2, H315 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 general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Indication of any immediate medical a	attention and special treatment needed
Treat symptomatically.	

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: Evacuate area.
Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Collect contaminated fire fighting water seperately. It must not enter drains.

SECTION 6: Accidental release measure 6.1. Personal precautions, protective equipm	
6.1.1. For non-emergency personnel	
Protective equipment	: Protective clothing.
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
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".
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Avoid release to the environment. Notify authorities if	liquid enters sewers or public waters.
6.3. Methods and material for containment a	nd cleaning up
For containment	: Collect spillage.
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	

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including an	y incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
Storage temperature	: ≤ 30 °C Possible pressure build-up
Storage area	: Store away from heat. Store in a well-ventilated place.
Special rules on packaging	: Keep only in original container.
7.3. Specific end use(s)	
No additional information available	

No additional information available

SECTION 8: Expos	sure controls/perso	onal protection			
8.1. Control paramet					
No additional information	n available				
8.2. Exposure contro	ols				
Appropriate engineerin	ig controls:				
Ensure good ventilation	of the work station.				
Personal protective equipment:					
Safety glasses.					
Hand protection:					
Protective gloves	Protective gloves				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)				EN ISO 374

Safety Data Sheet

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

Eye protection:		
Safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Туре	Standard	
Tyvek® Gown/Coveralls	EN 13034	
Respiratory protection:		

In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Disposable half mask	Gas/vapour filter	Vapour protection	EN 405

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

Other information:

Industrial and professional. Perform risk assessment prior to use. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Mobile liquid.	
Colour	: dark orange.	
Odour	: Amine-like.	
Odour threshold	: No data available	
рН	: ≈ 9.5	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: > 93 °C Estimated on the basis of the constituents :	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: Not applicable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Density	: 0.968 g/cm³	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: ≈ 258.264 mm²/s	
Viscosity, dynamic	: ≈ 250 cP 25°C	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	
9.2. Other information		

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. Product is not explosive.

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

10.2. Chemical stability
Stable under normal conditions.
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 toxicological effects Acute toxicity (oral) : Harmful if swallowed. Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified ATE CLP (oral) 1188.046 mg/kg bodyweight

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)	
LD50 oral rat	1030 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	5.01 mg/l/4h

1,3-Benzenedimethanamine (1477-55-0)	
LD50 oral	930 (≤ 1180) mg/kg
LD50 dermal rat	2000 mg/kg
LD50 dermal rabbit	> 3100 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1.34 mg/l/4h

Trimethylhexamethylenediamine (25620-58-0)	
LD50 oral rat	910 mg/kg

Propylene glycol diamine, 2-amino-, diether with Propylene (9046-10-0)	
LD50 oral rat	2885 mg/kg
LD50 dermal rabbit	2980 mg/kg

Phenol, styrenated (61788-44-1)	
LD50 oral rat	2500 mg/kg
LD50 dermal rabbit	> 7940 mg/kg

benzyl alcohol (100-51-6)	
LD50 oral rat	1230 mg/kg
LD50 dermal rabbit	2 g/kg
LC50 inhalation rat (mg/l)	8.8 mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: ≈ 9.5
Serious eye damage/irritation	: Causes serious eye damage.
	pH: ≈ 9.5
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

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

STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified
AMPRO Slow Hardener	
Viscosity, kinematic	≈ 258.264 mm²/s

SECTION 12: Ecological inform	ation	
12.1. Toxicity		
Ecology - general	: Harmful to aquatic life with long lasting effects.	
Acute aquatic toxicity	: Not classified	
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.	
3-aminomethyl-3,5,5-trimethylcycl	ohexylamine (2855-13-2)	
EC50 Daphnia 1	14.6 - 21.5 mg/l (48 h - Species: Daphnia magna [semi-static])	
EC50 72h algae (1)	37 mg/l (Species: Desmodesmus subspicatus)	
1,3-Benzenedimethanamine (1477-	-55-0)	
EC50 72h algae (1)	12 mg/l	
Trimethylhexamethylenediamine (25620-58-0)	
EC50 72h algae (1)	29.5 mg/l (Species: Desmodesmus subspicatus)	
benzyl alcohol (100-51-6)		
LC50 fish 1	460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
	23 mg/l (Exposure time: 48 h - Species: water flea)	
EC50 Daphnia 1		
EC50 72h algae (1) 12.2. Persistence and degradability	700 mg/l	
No additional information available		
12.3. Bioaccumulative potential		
3-aminomethyl-3,5,5-trimethylcycl	ohexylamine (2855-13-2)	
Log Pow	0.79 (at 23 °C)	
Trimethylhexamethylenediamine (25620-58-0)	
Log Pow	0.77 (at 23 °C)	
Phenol, styrenated (61788-44-1)		
Log Pow	> 4 (at 22 °C)	
benzyl alcohol (100-51-6)		
Log Pow	1.1	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
No additional information available		

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
01/10/2019 (Version: 1.3)	EN (English) 6

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

European List of Waste (LoW) code

: 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

14.1. UN number UN 2735 UN 2735 UN 2735 14.2. UN proper shipping name POLYAMINES, LIQUID, CORROSIVE, N.O.S. POLYAMINES, LIQUID, CORROSIVE, N.O.S. POLYAMINES, LIQUID, CORROSIVE, N.O.S. 17010000000000000000000000000000000000	ADR	IMDG	IATA
UN 2735 UN 2735 UN 2735 14.2. UN proper shipping name POLYAMINES, LIQUID, CORROSIVE, N.O.S. POLYAMINES, LIQUID, CORROSIVE, N.O.S. Polyamines, liquid, corrosive, n.o.s. CORROSIVE, N.O.S. UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Saminomethyl- 3,5.5- trimethylcyclobexylamine; 2,3dmino, deletier with 2,3dmino, deletier with 3,3dmino, deleti	14.1 LIN number		
42. UN proper shipping name POLYMINES, LIQUID, CORROSIVE, N.O.S. POLYMINES, LIQUID, CORROSIVE, N.O.S. Polyamines, liquid, corrosive, n.o.s. Tansport document description UN 2735 POLYMINES, LIQUID, CORROSIVE, N.O.S. (3-aminomethyl- 3,5,5- trimethylcyclohexylamine; Propylene, glycol diamine, 2-amino-, diether with Propylene, glycol 4.4. Packing group I II II II II Bangerous for the environment: No Marine pollutant : No Marine pollutant : No Dangerous for the environment : No Marine pollutant : No A.5. Special proceutions (ADR) : C7 pecial provisions (ADR) : Polyo I, IECO2 acking instructions (ADR) WP15 inther instructions (ADR) : L4BN ende for tank carriag		1010705	
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14.5. Environmental hazards Dangerous for the environment : No Dangerous for the environment : No Dangerous for the environment : No Mo supplementary information available Environment : No Dangerous for the environment : No A.6. Special precautions for user Downame Environment : No Overland transport Easification code (ADR) : C7 Special provisions (ADR) : 274 imited quantities (ADR) : 11 Excepted quantities (ADR) : E2 Packing instructions (ADR) : MP15 Ordrable tank and bulk container instructions : T11 ADR) : TP1, TP27 ADR) : L4BN Vehicle for tank carriage : AT ransport category (ADR) : 2 Iazard identification number (Kemler No.) : 80 Darage plates : 80	14.4. Packing group		
Dangerous for the environment : No Marine pollutant : No Dangerous for the environment : No Marine pollutant : No No supplementary information available 4.6. Special precautions for user Action 2004 (ADR) : C7 Again of the environment : AD : 274 imited quantities (ADR) : 11 Excepted quantities (ADR) : E2 tacking instructions (ADR) : E7 tacking instructions (ADR) : T11 ADRON : MP15 tortable tank and bulk container instructions : T11 ADRON : D21, T227 iank code (ADR) : L4BN Yerlah carriage : AT ransport category (ADR) : 2 lazard identification number (Kemler No.) : 80 Dangerous for the environment : No : 80	II	II	II
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iank code (ADR): L4BN'ehicle for tank carriage: AT'ransport category (ADR): 2lazard identification number (Kemler No.): 80Orange plates: 802735	ortable tank and bulk contai	ner special provisions	: TP1, TP27
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ransport category (ADR) : 2 lazard identification number (Kemler No.) : 80 brange plates : 80 2735			
azard identification number (Kemler No.) : 80 Irange plates : 80 2735	•		
arange plates 80 2735		(Kemler No.)	
unnel restriction code (ADR) : E		(Reinier NU.)	· 80
AC code : 2X)	

Safety Data Sheet

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

APP code	: B
Transport by sea	
Special provisions (IMDG)	: 274
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP1, TP27
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SG35
Properties and observations (IMDG)	: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.
Air transport	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
14.7. Transport in bulk according to Anne	x 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

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

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

Full text of H- and EUH-statements:			
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Skin Corr. 1A	Skin corrosion/irritation, Category 1A		
01/10/2019 (Version: 1.3)	EN (English)	8/9	

Safety Data Sheet

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

H412

Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
H302	Harmful if swallowed.	
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.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Acute Tox. 4 (Oral)	H302	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method

SDS EU (REACH Annex II)

Aquatic Chronic 3

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Calculation method