535	0 Strobl / Wolfgangsee		
Date	printed 02.11.2023, Revision 02.11.20	23 Version 1.0	Page 1 / 13
SEC	TION 1: Identification of the sub	stance/mixture and of the company/undertaking	
1.1	Product identifier		
		Deck Caulk 510	
1.2	Relevant identified uses of the	substance or mixture and uses advised against	
1.2.1	Relevant uses	Societa motorial	
		Sealing material	
1.2.2	2 Uses advised against		
		None known.	
1.3	Details of the supplier of the sa	ifetv data sheet	
	Company	Ramsauer GmbH & Co KG Alte Bundesstraße 147 5350 Strobl / Wolfgangsee / AUSTRIA Phone +43 (0)6135 8205 0 Fax +43 (0)6135 8205-250 Homepage www.ramsauer.eu E-mail office@ramsauer.eu	
	Address enquiries to		
	Technical information	office@ramsauer.eu	
	Safety Data Sheet	sdb@chemiebuero.de (No dispatch of safety data sheets)	
		Safety data sheets are available from the supplier.	
1.4	Emergency telephone number		
	Advisory body	+43 (0) 1 406 43 43 (24h)	
SEC	TION 2: Hazards identification		
2.1	Classification of the substance	or mixture [REGULATION (EC) No 1272/2008] Eye Irrit. 2: H319 Causes serious eye irritation.	
2.2	Label elements		
		The product is required to be labelled in accordance with regulation CLP.	
	Hazard pictograms		
	Cignal word	WARNING	
	Signal word Hazard statements	H319 Causes serious eye irritation.	
	Precautionary statements	 P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P280 Wear eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minu contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention. 	tes. Remove
	Special labelling	Contains: N-[3-(Trimethoxysilyl)propyl]ethylenediamine, Bis-(2,2,6,6,-tetram piperidinyl) sebacate. EUH208 May produce an allergic reaction.	ethyl-4-
2.3	Other hazards		
	Human health dangers	Contact with moisture liberates Methanol.	
	Environmental hazards	Does not contain any PBT or vPvB substances.	
	Others have a	Contains no ingredients with endocrine-disrupting properties.	
	Other hazards	Further hazards were not determined with the current level of knowledge.	

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0 Page 2 / 13

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance	
1 - <3	3-(Trimethoxysilyl)propylamine	
	CAS: 13822-56-5, EINECS/ELINCS: 237-511-5, Reg-No.: 01-2119510159-45-XXXX	
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315	
0.1 - <1	N-[3-(Trimethoxysilyl)propyl]ethylenediamine	
	CAS: 1760-24-3, EINECS/ELINCS: 217-164-6	
	GHS/CLP: Skin Sens. 1B: H317 - Eye Dam. 1: H318 - STOT SE 3: H335	
0.1 - <1	Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate	
	CAS: 52829-07-9, EINECS/ELINCS: 258-207-9, Reg-No.: 01-2119537297-32-XXXX	
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411	

Comment on component parts

For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1	Description of first aid measures		
	General information	Take off contaminated clothing and wash before reuse.	
	Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.	
	Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.	
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
	Ingestion	Seek medical advice immediately.	

Irritant effects Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5.1	Extinguishing media		
	Suitable extinguishing media	Carbon dioxide. Foam. Dry powder. Water spray jet.	
	Extinguishing media that must not be used	Full water jet.	

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO) Nitrogen oxides (NOx).

Date	printed 02.11.2023, Revision 02.11.2023		Version 1.0	Page 3 / 13
5.3	Advice for firefighters			
		Use self-contained breathing apparatus.		
		Fire residues and contaminated firefighting water must be di the local regulations.	isposed of in accord	lance within
SEC	CTION 6: Accidental release measu	res		
6.1	Personal precautions, protective	equipment and emergency procedures		
		Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Use personal protective equipment (protective gloves, safet	y glasses, protective	e clothing).
6.2	Environmental precautions			
		Do not discharge into the drains/surface waters/groundwate	r.	
6.3 Methods and material for containment and cleaning up				
		Take up mechanically. Take up residues with absorbent material (e.g. sand, sawdu diatomaceous earth). Dispose of absorbed material in accordance within the regul		binder,
6.4	Reference to other sections			
		See SECTION 8+13		
SEC	TION 7: Handling and storage			
7.1	Precautions for safe handling			
		Use only in well-ventilated areas.		
		Wash hands before breaks and after work. Use barrier skin cream. Do not eat, drink, smoke or take drugs at work. Take off contaminated clothing and wash before reuse.		
7.2	Conditions for safe storage, inclu	iding any incompatibilities		
		Keep only in original container. Prevent penetration into the ground.		
		Do not store together with food and animal food/diet.		
		Keep in a cool place. Store in a dry place. Protect from heat/overheating.		
7.3	Specific end use(s)			
		See product use, SECTION 1.2		

Ramsauer GmbH & Co KG

5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

Page 4 / 13

Version 1.0

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

Substance / EC LIMIT VALUES
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Eight hours: 200 ppm, 260 mg/m ³ , H

DNEL

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
Industrial, inhalative, Acute - systemic effects, 260 mg/m ³
Industrial, dermal, Long-term - systemic effects, 1 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 7.1 mg/m ³
general population, inhalative, Long-term - systemic effects, 1.7 mg/m ³
general population, inhalative, Acute - systemic effects, 50 mg/m ³
general population, oral, Long-term - systemic effects, 8 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 0.5 mg/kg bw/day
Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate, CAS: 52829-07-9
Industrial, dermal, Long-term - systemic effects, 1.6 mg/kg bw/day
Industrial, inhalative, Acute - systemic effects, 2.82 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 2.82 mg/m ³
general population, oral, Long-term - systemic effects, 400 µg/kg bw/day
general population, dermal, Long-term - systemic effects, 800 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 690 µg/m ³

PNEC

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
soil, 45 µg/kg soil dw
sediment (seawater), 120 µg/kg sediment dw
sediment (freshwater), 1.2 mg/kg sediment dw
sewage treatment plants (STP), 13 mg/L
seawater, 33 µg/L
freshwater, 330 µg/L
Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate, CAS: 52829-07-9
sediment (seawater), 2.9 mg/kg
sediment (freshwater), 29 mg/kg
sewage treatment plants (STP), 1 mg/L
seawater, 1.88 µg/L
freshwater, 18.8 µg/L

Date printed 02.11.2023, Revision 02.11.2023		Version 1.0 Page 5 / 7
8.2	Exposure controls	
	Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
	Eye protection	Safety glasses. (EN 166:2001)
	Hand protection	0.7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
	Skin protection	Protective clothing (EN 340)
	Other	Avoid contact with eyes and skin. Do not inhale vapours.
	Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: we appropriate respiratory protection.

	appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	no
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	pasty
Color	various
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not determined
Boiling point [°C]	not applicable
Flash point [°C]	not determined
Flammability	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm³]	not determined
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not determined
Kinematic viscosity	not applicable
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

Date printed 02.11.2023, Revision 02.11.2023

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

See SECTION 7 Contact with moisture.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

Contact with moisture liberates Methanol.

Version 1.0

Page 6 / 13

Ramsauer GmbH & Co KG

5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Based on available data, the classification criteria are not met.

Version 1.0

Page 7 / 13

Product	

oral, Based on the available information, the classification criteria are not fulfilled.

Substance	
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5	
LD50, oral, Rat, 2.97 mL/kg bw, OECD 401	
Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate, CAS: 52829-07-9	
LD50, oral, Rat, > 2000 mg/kg	
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3	
LD50, oral, Rat, 2995 mg/kg	

Acute dermal toxicity

Based on available data, the classification criteria are not met.

Product

dermal, Based on the available information, the classification criteria are not fulfilled.

3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LD50, dermal, Rabbit, 11.3 mL/kg bw, OECD 402
Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate, CAS: 52829-07-9
LD50, dermal, Rat, > 2000 mg/kg
N-[3-(TrimethoxysilyI)propyI]ethylenediamine, CAS: 1760-24-3
LD50, dermal, Rat, > 2000 mg/kg

Acute inhalational toxicity

Based on available data, the classification criteria are not met.

Product

inhalative, Based on the available information, the classification criteria are not fulfilled.

Substance

Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate, CAS: 52829-07-9
LC50, inhalative, Rat, 7.7 mg/l (4 h)

Serious eye damage/irritation Irritant

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
Eye, Rabbit, OECD 405, corrosive
Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate, CAS: 52829-07-9
OECD 405, Causes serious eye damage.
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 405, Causes serious eye damage.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
dermal, Rabbit, OECD 404, irritant

Safety Data Sheet according to REACH-Regulation (EC) 1907/2006 amended by regulation (EC) 2020/878 (EU) Deck Caulk 510

Ramsauer GmbH & Co KG 5350 Strobl / Wolfgangsee

Date printed 02.11.2023, Revision 02.11.2023		Version 1.0	Page 8 / 13	
	Bis-(2,2,6,6,-tetrar	nethyl-4-piperidinyl) sebacate, CAS: 52829-07-9		
	Rabbit, OECD 404	4, non-irritating		
	N-[3-(Trimethoxys	ilyl)propyl]ethylenediamine, CAS: 1760-24-3		
	Rabbit, OECD 404	4, Slight irritant effect - does not require labelling.		
Respiratory or ski	n sensitisation	Based on available data, the classification criteria are not met May cause an allergic skin reaction.		
	Substance			
	3-(Trimethoxysilyl)	propylamine, CAS: 13822-56-5		

dermal, Guinea pig, OECD 406, non-sensitizing	
Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate, CAS: 52829-07-9	
Guinea pig, OECD 406, non-sensitizing	
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3	
dermal, mouse, OECD 429, sensitising	
demail Quines siz QEOD 400 constituing	

dermal, Guinea pig, OECD 406, sensitising

Based on available data, the classification criteria are not met. Specific target organ toxicity -

Based on available data, the classification criteria are not met.

Specific target organ toxicity repeated exposure

single exposure

Substance	
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5	
NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 408, adverse effect observed	
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3	
NOAEL, oral, Rat, > 500 mg/kg (28d), OECD 422, no adverse effect observed	

Mutagenicity

This product contains one or more substances of Muta. 2.

(CAS: 22673-19-4)

Substance	
-(Trimethoxysilyl)propylamine, CAS: 13822-56-5	
n vitro, OECD 471, negativ	
I-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3	
n vitro, OECD 476, negativ	
n vitro, OECD 471, negativ	

Reproduction toxicity

This product contains one or more substances of categorie Repr. 1B (CLP). (CAS: 22673-19-4)

- Fertility

Substance	
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5	
NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 414, no adverse effect observed	
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3	
NOAEL, oral, Rat, >= 500 mg/kg, OECD 422	

- Development

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 414, no adverse effect observed
N-[3-(TrimethoxysilyI)propyI]ethylenediamine, CAS: 1760-24-3
NOAEL, oral, Rat, >= 500 mg/kg, OECD 422

Date printed 02.11.2023, Revision 02.11.2023	3 Versio	on 1.0	Page 9 / 13
Carcinogenicity	Does not contain a relevant substance that meets the classification cri	teria.	
Aspiration hazard	Based on available data, the classification criteria are not met.		
General remarks			
	Toxicological data of complete product are not available.		
11.2 Information on other hazards			
11.2.1 Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.		
11.2.2 Other information	none		

SECTION 12: Ecological information

12.1 Toxicity

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LC50, (96h), fish, 934 mg/L
EC50, (72h), Algae, >603 - 1000 mg/L
EC50, (48h), Daphnia magna, 331 mg/L
Bis-(2,2,6,6,-tetramethyl-4-piperidinyl) sebacate, CAS: 52829-07-9
LC50, (48h), Invertebrates, 8.58 mg/L
LC50, (96h), fish, 4.4 mg/L
EC50, (72h), Algae, 705 - 1900 µg/L
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LC50, (96h), Danio rerio, 597 mg/l
EC50, (16h), Pseudomonas putida, 67 mg/l
EC50, (48h), Daphnia magna, 81 mg/l
IC50, (72h), Algae, 8.8 mg/l (OECD 201)
NOEC, (14d), >= 1000 mg/kg (Eisenia fetida; OECD 207)
NOEC, (21d), Daphnia magna, > 1 mg/l
NOEC, (72h), Algae, 3.1 mg/l (OECD 201)

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not applicable

12.5 Results of PBT and vPvB assessment

Does not contain a relevant substance that meets the classification criteria.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0 Page 10 / 13

12.7 Other adverse effects

Ecological data of complete product are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

	Product	
		Disposal in an incineration plant in accordance with the regulations of the local authorities.
	Waste no. (recommended)	070216*
	Contaminated packaging	
		Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
	Waste no. (recommended)	150102
SEC	TION 14: Transport information	
14.1	UN number or ID number	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.2	UN proper shipping name Transport by land according to ADR/RID	NO DANGEROUS GOODS
	Inland navigation (ADN)	NO DANGEROUS GOODS
	Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"
	Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"
14.3	Transport hazard class(es) Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable

Date	printed 02.11.2023, Revision 02.11.2023		Version 1.0	Page 11 / 13
14.4	Packing group			
	Transport by land according to ADR/RID	not applicable		
	Inland navigation (ADN)	not applicable		
	Marine transport in accordance with IMDG	not applicable		
	Air transport in accordance with IATA	not applicable		
4.5	Environmental hazards			
	Transport by land according to ADR/RID	no		
	Inland navigation (ADN)	no		
	Marine transport in accordance with IMDG	no		
	Air transport in accordance with IATA	no		
4.6	Special precautions for user			

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

1 Safety, health and environmental	Safety, health and environmental regulations/legislation specific for the substance or mixture		
EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131 (EU) 517/2014; (EU) 2019/1148		
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%		
- Annex I (REACH)	The product is not subject to Annex I restrictions.		
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not conta any substances \geq 0.1% that are subject to authorisation.		
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1 of substances with the following restrictions. 75		
	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to th following restrictions. 3		
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)		
NATIONAL REGULATIONS (EU):			
- Observe employment restrictions for people	Observe employment restrictions for young people.		
- VOC (2010/75/CE)	0 %		

not applicable

ate printed 02.11.2023, Revision 02.11.2023	3	Version 1.0	Page 12 /
ECTION 16: Other information			
6.1 Hazard statements (SECTION 3)			
	H411 Toxic to aquatic life with long lasting effects.		
	H400 Very toxic to aquatic life.		
	H335 May cause respiratory irritation. H317 May cause an allergic skin reaction.		
	H315 Causes skin irritation.		
	H318 Causes serious eye damage.		
.2 Abbreviations and acronyms:			
	ADR = Accord européen relatif au transport international de	s marchandises Da	angereuses pa
	Route	viaira da marahan:	liano
	RID = Règlement concernant le transport international ferro dangereuses		11565
	ADN = Accord européen relatif au transport international de	s marchandises da	angereuses pa
	voie de navigation intérieure		0 1
	ATE = acute toxicity estimate		
	CAS = Chemical Abstracts Service		
	CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level		
	DNEL = Derived No Effect Level		
	EC50 = Median effective concentration		
	ECB = European Chemicals Bureau		
	EEC = European Economic Community	mical Cubatanaga	
	EINECS = European Inventory of Existing Commercial Che EL50 = Median effective loading	mical Substances	
	ELINCS = European List of Notified Chemical Substances		
	EmS = Emergency Schedules		
	GHS = Globally Harmonized System of Classification and L	abelling of Chemic	als
	IATA = International Air Transport Association		
	IBC-Code = International Code for the Construction and Eq	upment of Ships c	arrying
	Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50%		
	IMDG = International Maritime Code for Dangerous Goods		
	IUCLID = International Uniform ChemicaL Information Data	base	
	IVIS = In vitro irritation score		
	LC50 = Lethal concentration, 50%		
	LD50 = Median lethal dose		
	LC0 = lethal concentration, 0% LOAEL = lowest-observed-adverse-effect level		
	LL50 = Median lethal loading		
	LQ = Limited Quantities		
	MARPOL = International Convention for the Prevention of N	Aarine Pollution from	m Ships
	NOAEL = No Observed Adverse Effect Level		
	NOEC = No Observed Effect Concentration PBT = Persistent, Bioaccumulative and Toxic substance		
	PNEC = Predicted No-Effect Concentration		
	REACH = Registration, Evaluation, Authorisation and Restr	iction of Chemicals	5
	STP = Sewage Treatment Plant		
	TLV®/TWA = Threshold limit value – time-weighted average		
	TLV®STEL = Threshold limit value – short-time exposure li	mit	
	VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative		

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

Classification procedure

Modified position

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method) SECTION 6 been added: Use personal protective equipment (protective gloves, safety glasses, protective clothing). SECTION 9 been added: liquid

Date printed 02.11.2023, Revision 02.11.2023

Version 1.0 Page 13 / 13

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