SAFETY DATA SHEET

BIOMATE MBC781

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

1.1. Product identifier

Trade name or designation of the mixture	BIOMATE MBC781
Version number	7.0
Revision date	12/04/2018
Supersedes date	29/07/2016

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

Identified uses	Biocide
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

SUEZ WTS Italy S.R.L.
Via Melchiorre Gioia 26
20124 Milano
Tel : 02 67335400
e-mail : emea.productregulatory.wts@suez.com

1.4. Emergency telephone number

Multilingual emergency number (24/7)

Europe, Middle East, Africa, Israel (Europe and English language speaking countries):
+44(0)1235 239670
Middle East & Africa (speaking Arabic):
+44(0)1235 239671

Centro Antiveleni Ospedale Niguarda
0039 0266101029
Milano

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards		
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Environmental hazards		
Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains:	Mixture of : 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one (3:1) (CAS 55965-84-9) (15,5 g/l)

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Hazard pictograms

Signal word Danger

Hazard statements

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

Prevention

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE/doctor.

Storage Not available.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

Mixtures

Chemical description Isothiazolinone in aqueous solution

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Magnesium nitrate	1 - < 5	10377-60-3 233-826-7	01-2119491164-38	-	
Classification:	Ox. Sol. 3;H272, Eye Irrit. 2;H319				
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	1 - < 2,5	55965-84-9 -	-	613-167-00-5	M=10
Classification:	Acute Tox. 3;H301, Acute Tox. 2;H310, Skin Corr. 1B;H314, Skin Sens. 1;H317, Acute Tox. 2;H330, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				
Cupric nitrate	< 0,2	3251-23-8 221-838-5	01-2119969290-34	-	M=10
Classification:	Ox. Sol. 1;H271, Met. Corr. 1;H290, Skin Corr. 1B;H314, Eye Dam. 1;H318, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				

The classification of the above substance(s) is given, including the hazard class, category code and hazard statements which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 where the full text of each relevant H-statement is listed.

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of loss of consciousness, give artificial respiration. Get medical attention immediately.
Skin contact	Take off immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.
Ingestion	Rinse mouth. Do not give anything to eat or drink. Do not induce vomiting. Call a physician or poison control centre immediately.
4.2. Most important symptoms and effects, both acute and delayed	May cause allergic skin reaction. Corrosive effects.
4.3. Indication of any immediate medical attention and special treatment needed	Not available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	None.
5.2. Special hazards arising from the substance or mixture	Hydrogen chloride, oxides of carbon and nitrogen evolved in fire. Oxides of sulphur evolved in fire.

5.3. Advice for firefighters

Special protective equipment for firefighters	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
Special fire fighting procedures	Use standard firefighting procedures and consider the hazards of other involved materials. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Wear protective clothing, gloves and safety goggles. Ensure good ventilation. It is possible to pass or work near the treated system during product application.
For emergency responders	Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Prevent from entering sewers or the immediate environment. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point. Transport and store in approved containers according to applicable national and international regulations.

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6.3. Methods and material for containment and cleaning up

Keep spills and clean-up residuals out of municipal sewers and open bodies of water.
Absorb the spill with spill pillows or inert solids such as clay or vermiculite.
Transfer contaminated materials to suitable containers for disposal.
Deactivate spill area with freshly prepared solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water.
Apply solution to the spill area at a ratio of 10 volumes deactivation solution per estimated volume of residual spill to deactivate any residual active ingredient.
Let stand for 30 minutes.
Flush the spill area with copious amounts of water to chemical sewer in accordance with local procedures, permits and regulations.
DO NOT add deactivation solution to the waste pail to deactivate the adsorbed material.

6.4. Reference to other sections

Please refer also to section no. 8 'Exposure controls' for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes.
Contains an oxidiser.
Avoid all contact with reducing agents, oils, greases, organics and acids.
Use only containers which are compatible with the substance.

7.2. Conditions for safe storage, including any incompatibilities

Store containers closed when not in use, away from extreme temperatures.
Product evolves carbon dioxide gas slowly.
Store upright in original vented container.
Store samples in plastic bottles only.
No more then 6 months pressure build-up may rupture glass bottles.

7.3. Specific end use(s)

Only for professional and industrial users
The material which has been in contact with this product can be cleaned with water. Product is especially designed for the cleaning and disinfection by applying, soaking or circulating of a diluted aqueous solution. The minimum contact time is: 12 hours. Proper treatment levels and frequency of addition should be determined by a study of the normalised system performance and depend on many factors, such as water quality, microbial species, biological activity in the water streams, and conditions particular for a given installation. The product should be used in accordance with control procedures that SUEZ Water Technologies & Solutions establishes for a specific application.

Shelf life

360 days

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Italy. Occupational Exposure Limits

Components	Type	Value	Form
Cupric nitrate (CAS 3251-23-8)	TWA	1 mg/m3	Dust and mist.
		0,2 mg/m3	Fume.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Not available.

Derived no effect levels (DNELs)

Workers

Components	Value	Assessment factor	Notes
Magnesium nitrate (CAS 10377-60-3)			
Long-term, Systemic, Dermal	20,8 mg/kg	72	
Long-term, Systemic, Inhalation	147 mg/m3	18	

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Cupric nitrate (CAS 3251-23-8)			
Freshwater	7,8 µg/l	1	
Marine water	5,2 µg/l	1	
Sediment (freshwater)	87 mg/kg	1	
Sediment (marine water)	676 mg/kg	1	

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Soil	65 mg/kg	1
STP	230 µg/l	1
Magnesium nitrate (CAS 10377-60-3)		
Freshwater	0,45 mg/l	1000
Intermittent releases	4,5 mg/l	100
Marine water	0,045 mg/l	10000
STP	18 mg/l	10

8.2. Exposure controls

Appropriate engineering controls Adequate ventilation to maintain air contaminants below exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Splash proof chemical goggles.
Face shield.
CEN : EN 166

Skin protection

- Hand protection Gauntlet type neoprene gloves (Protection against unintentional short-term contact)
Gauntlet type nitrile gloves (Protection against unintentional short-term contact)
CEN : EN 374-1/2/3/4; EN 420

- Other Chemical resistant apron.
Rubber boots.
CEN : EN ISO 13688; EN ISO 6530; EN ISO 6529; EN 14605

Respiratory protection In case of insufficient ventilation, use a breathing mask with filter type: A2 E2-P2
CEN : EN 140; EN 14387

Thermal hazards Not available.

Environmental exposure controls Prevent from entering in public sewers or the immediate environment.
Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Colour Yellow to blue-green

Physical state Liquid

Odour Slight

Odour threshold Not available.

pH (concentrated product) 3

pH in aqueous solution 4 (5% SOL.)

Melting point/freezing point -2 °C

Initial boiling point and boiling range 104 °C

Flash point Not applicable.

Evaporation rate < 1 (Ether = 1)

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Vapour pressure 18 mm Hg / 2,4 kPa

Vapor pressure temp. 21 °C

Vapour density < 1 (Air = 1)

Relative density 1,03

Relative density temperature 21 °C

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Solubility	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	8 cps
Viscosity temperature	21 °C
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information	
Pour point	1 °C
Shelf life	360 days
VOC	0 % (Calculated)

SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Not applicable.
10.4. Conditions to avoid	Protect from freezing.
10.5. Incompatible materials	Avoid contact with strong oxidisers. Avoid contact with strong reducing agents.
10.6. Hazardous decomposition products	Hydrogen chloride, oxides of carbon and nitrogen evolved in fire. Oxides of sulphur evolved in fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Product	Test results
BIOMATE MBC781 (Mixture)	Acute Dermal LD50 Rabbit: > 5000 mg/kg
	Acute Inhalation LC50 Rat: > 5 mg/l 4 Hours
	Acute Oral LD50 Rat: 4468 mg/kg
Components	**Test results**
Magnesium nitrate (10377-60-3)	Acute Dermal LD50 Rabbit: > 5000 mg/kg
	Acute Oral LD50 Rat: 5400 mg/kg
Cupric nitrate (3251-23-8)	Acute Oral LD50 Rat: 940 mg/kg
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (55965-84-9)	Acute Dermal LD50 Rabbit: 90 mg/kg
	Acute Inhalation LC50 Rat: 0,33 mg/l 4 hour
	Acute Oral LD50 Rat: 67 mg/kg

Acute toxicity	Not classified.
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure	Not classified.

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Specific target organ toxicity - single exposure	Not classified.
Carcinogenicity	Not classified.
Germ cell mutagenicity	Not classified.
Reproductive toxicity	Not classified.

Information on likely routes of exposure

Ingestion	Causes digestive tract burns.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes severe skin burns. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Symptoms	Not available.
Aspiration hazard	Not classified.
Mixture versus substance information	None known.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity

Product		Species	Test results
BIOMATE MBC781 (CAS Mixture)			
	LC50	Bluegill sunfish	12,1 mg/l, Static Acute Bioassay, 96 hour
		Fathead minnow	6,6 mg/l, Flow-Thru Bioassay, 96 hour
		Sheepshead minnow	20 mg/l, Static Acute Bioassay, 96 hour
	LOEC	Fathead minnow	4 mg/l, Early Life Stage Test, 36 day
	NOEL	Bluegill sunfish	6,5 mg/l, Static Acute Bioassay, 96 hour
		Fathead minnow	2,5 mg/l, Flow-Thru Bioassay, 96 hour
			1,3 mg/l, Early Life Stage Test, 36 day
		Sheepshead minnow	12 mg/l, Static Acute Bioassay, 96 hour
Aquatic			
Crustacea	10% Mortality	Daphnia magna	0,6 mg/l, Flow-Thru Bioassay, 48 hour
	LC50	Daphnia magna	2,9 mg/l, Flow-Thru Bioassay, 48 hour
Fish	LC50	Rainbow trout	8,7 mg/l, Static Acute Bioassay, 96 hour
			4,6 mg/l, Chronic Bioassay, 14 day
	NOEL	Rainbow trout	6,5 mg/l, Static Acute Bioassay, 96 hour
			3,3 mg/l, Chronic Bioassay, 14 day

12.2. Persistence and degradability

- COD (mgO2/g)	17 (calculated data)
- BOD 5 (mgO2/g)	0 (calculated data)
- BOD 28 (mgO2/g)	0 (calculated data)
- Closed Bottle Test (% Degradation in 28 days)	0 (calculated data)
- Zahn-Wellens Test (% Degradation in 28 days)	0 (calculated data)
- TOC (mg C/g)	6 (calculated data)
12.3. Bioaccumulative potential	Not available.

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Partition coefficient n-octanol/water (log Kow)	
Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1)	0,486
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contaminated packaging

According to Hazardous Waste Regulations.

EWC (European Waste Code) recommendation : 15 01 10
15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.
15 01 Packaging (including separately collected municipal packaging waste).
15 01 10 Packaging containing residues of or contaminated by dangerous substances.
Depending on the origin and state of the waste, other EWC numbers may be applicable too.

Disposal methods/information

According to Hazardous Waste Regulations.

EWC (European Waste Code) recommendation : 16 03 05
16 Wastes not otherwise specified in the list.
16 03 Off-specification batches and unused products.
16 03 05 Organic wastes containing dangerous substances.
Depending on the origin and state of the waste, other EWC numbers may be applicable too.

SECTION 14: Transport information

ADR

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1), Mixture)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	No
Tunnel restriction code	(E)
14.6. Special precautions for user	Not available.

RID

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1), Mixture)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	No
14.6. Special precautions for user	Not available.

ADN

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1), Mixture)

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14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	No
14.6. Special precautions for user	Not available.

IATA

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1), Mixture)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	No
ERG Code	Not available.
14.6. Special precautions for user	Not available.

IMDG

14.1. UN number	UN3265
14.2. UN proper shipping name	Corrosive liquid, acidic, organic, n.o.s. (Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1), Mixture)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No
EmS No.	F-A, S-B
14.6. Special precautions for user	Not available.
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	This substance/mixture is not intended to be transported in bulk.

ADN; ADR; IATA; IMDG; RID

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

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Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3-one [EC no. 220-239-6] (3:1) (CAS 55965-84-9)

National regulations Not available.

15.2. Chemical safety assessment Not available.

Biocides 11: Preservatives for liquid-cooling and processing systems 2: Private area and public health area disinfectants and other biocidal products.

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: Other information

List of abbreviations

COD: Chemical Oxygen Demand
IATA: International Air Transport Association
EC-No: European Commission Number
CAS: Chemical Abstract Service.
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CEN: European Committee for Standardization (Comité Européen de Normalisation).
TWA: Time Weighted Average.
STEL: Short-term Exposure Limit.
LD50: Lethal Dose 50%.
LC50: Lethal Concentration 50%.
EC50: Effective Concentration 50%.
NOEL: No observed effect level.
BOD: Biochemical oxygen demand.
TOC: Total Organic Carbon.
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des merchandises dangereuses par route).

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	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures). IMDG Code: International Maritime Dangerous Goods Code. RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).
References	Safety data sheets of raw materials.
Information on evaluation method leading to the classification of mixture	The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 (CLP).
Full text of any H-statements not written out in full under Sections 2 to 15	H271 May cause fire or explosion; strong oxidiser. H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H301 Toxic if swallowed. H310 Fatal in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H330 Fatal if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
Training information	Provide training on safe handling while considering the type of application and exposure scenarios.
Based on EC Directive / Regulations	(EU) No 1357/2014 (EC) No 1907/2006 (REACH) (EU) 2015/830 (EC) No 1272/2008 (EU) No. 528/2012 and amendments (Biocidal Product Regulation) All active ingredients have been identified/notified for the relevant Product Types according to the First Review Regulation on existing active substances (EU) No. 1451/2007 This information is based on our current knowledge and is intended to describe the product for the purpose of safety requirements only. It should not therefore be construed as garanteeing any specific property of the product.
Further information	Correction in Section: 1,2,8,14,15,16