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

#### 1.1 Product identifier

Trade name

: Sikament<sup>®</sup> MFD-1 A

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

Product use : Concrete admixtures

#### 1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Schweiz AG
		Tüffenwies 16
		8048 Zürich
Telephone	:	+41 58 436 40 40
Telefax	:	-
E-mail address of person	:	EHS@ch.sika.com
responsible for the SDS		

#### **1.4 Emergency telephone number**

Tox Info Suisse CH-8028 Zurich +41(0)44 251 51 51 / Speed calling: 145

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### **Additional Labelling**

EUH210 Safety data sheet available on request.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one (BIT), 2-octyl-2H-isothiazole-3-one (OIT), mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1)), 2,4,7,9-Tetramethyldec-5-yne-4,7-diol, ethoxylated. May produce an allergic reaction.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Contains a biocide in order to protect the product. Active ingredient: 1,2-benzisothiazol-3(2H)-one (BIT), 2634-33-5, 2-octyl-2H-isothiazole-3-one (OIT), 26530-20-1, mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1)), 55965-84-9. Please use treated articles responsibly.

# **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No. Registration number		(% w/w)
2,4,7,9-Tetramethyldec-5-yne-4,7- diol, ethoxylated	9014-85-1 500-022-5 01-2119954393-33- XXXX	Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 3; H412	>= 0,25 - < 1
1,2-benzisothiazol-3(2H)-one (BIT)	2634-33-5 220-120-9 01-2120761540-60- XXXX	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 	>= 0,0025 - < 0,025

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2-octyl-2H-isothiazole-3-one (OIT)	26530-20-1	Acute Tox. 3; H301	>= 0,0002 - <
	247-761-7	Acute Tox. 2; H330	0,0015
	01-2120768921-45-	Acute Tox. 3; H311	
	XXXX	Skin Corr. 1; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1A; H317	
		Aquatic Acute 1;	
		H400 Aquatia Chronia 1	
		Aquatic Chronic 1; H410	
		EUH071	
		M-Factor (Acute	
		aquatic toxicity): 100	
		M-Factor (Chronic	
		aquatic toxicity): 100	
		specific concentration	
		limit	
		Skin Sens. 1A; H317	
		>= 0,0015 %	
		Acute toxicity esti-	
		mate	
		Acute oral toxicity:	
		125 mg/kg	
		Acute inhalation tox-	
		icity (dust/mist): 0,27	
		mg/l	
		Acute dermal toxicity:	
		311 mg/kg	

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mixture of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247- 500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239- 6] (3:1) (C(M)IT/MIT (3:1))	55965-84-9 911-418-6 01-2120764691-48- XXXX	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 $\overline{}$ M-Factor (Acute aquatic toxicity): 100 $\overline{}$ Specific concentration limit Skin Corr. 1C; H314 >= 0,6 % Skin Irrit. 2; H315 0,06 - < 0,6 % Skin Sens. 1A; H317 >= 0,0015 % Eve Dam. 1; H218	>= 0,0002 - < 0,0015
		Skin Sens. 1A; H317	

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General advice	:	No hazards which require special first aid measures.
If inhaled	:	Move to fresh air.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.
In case of eye contact	:	Remove contact lenses. Keep eye wide open while rinsing.
If swallowed	:	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.



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4.2 Most important symptoms a	nd	effects, both acute and delayed	
Symptoms	:	See Section 11 for more detailed information on health effects and symptoms.	
Risks	:	No known significant effects or hazards.	
4.3 Indication of any immediate	me	dical attention and special treatment needed	
Treatment	:	Treat symptomatically.	
SECTION 5: Firefighting mea	sur	res	
5.1 Extinguishing media			
Suitable extinguishing media	:	In case of fire, use water/water spray/water jet/carbon diox- ide/sand/foam/alcohol resistant foam/chemical powder for extinction.	
5.2 Special hazards arising from	n the	e substance or mixture	
Hazardous combustion prod- ucts	:	No hazardous combustion products are known	
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.	
Further information	:	Standard procedure for chemical fires.	
SECTION 6: Accidental release measures			
	ctiv	e equipment and emergency procedures	
Personal precautions	:	For personal protection see section 8.	

# 6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

# 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Wipe up with absorbent material (e.g. cloth, fleece).
		Keep in suitable, closed containers for disposal.

# 6.4 Reference to other sections

For personal protection see section 8.

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# **SECTION 7: Handling and storage**

7.1	Precautions for safe handling	J	
	Advice on safe handling	:	For personal protection see section 8. No special handling advice required. Follow standard hygiene measures when handling chemical products
	Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
	Hygiene measures	:	When using do not eat or drink. When using do not smoke.
7.2	Conditions for safe storage, i	ncl	uding any incompatibilities
	Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.
	Advice on common storage	:	No special restrictions on storage with other products.
	Further information on stor- age stability	:	No decomposition if stored and applied as directed.
7.3	Specific end use(s)		
	Specific use(s)	:	Consult most current local Product Data Sheet prior to any use.

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *	
2-octyl-2H-isothiazole-3-one (OIT)	26530-20-1	TWA (inhalable dust)	0,05 mg/m3	CH SUVA	
	Further information: Toxic by skin resorption possible; Substance es, which are easily absored through the skin, can give by addi- tional skin resoption a substancial higher risk compared to only inhalation by the airways., Sensitizers; Substances marked with an S can lead to very strong allergic reactions.			give by addi- ared to only	
	STEL (inhalable 0,1 mg/m3 CH SUVA dust)				
mixture of: 5-chloro-2-methyl-4- isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1))	55965-84-9	TWA (inhalable dust)	0,2 mg/m3	CH SUVA	
	Further information: Sensitizers; Substances marked with an S can lead to very strong allergic reactions., Harm to the unborn				



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	child is not to b	be expected when the	he OEL-value is re	espected
		STEL (inhalable	0,4 mg/m3	CH SUVA
		dust)	-	
*The above montioned values are in accordance with the logislation in effect at the date of the re-				

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

### 8.2 Exposure controls

### **Engineering measures**

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipmen	t
Eye/face protection :	Safety glasses
Hand protection	Chemical-resistant, impervious gloves complying with an ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer specifications.
	Butyl rubber/nitrile rubber gloves (> 0,1 mm) Recommended: Butyl rubber/nitrile rubber gloves.
Skin and body protection :	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.
Respiratory protection	<ul> <li>In case of inadequate ventilation wear respiratory protection.</li> <li>Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.</li> <li>organic vapor filter (Type A)</li> <li>A1: &lt; 1000 ppm; A2: &lt; 5000 ppm; A3: &lt; 10000 ppm</li> <li>Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.</li> </ul>

### **Environmental exposure controls**

General advice

: No special environmental precautions required.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state Colour		liquid amber
Odour	:	like methacrylic acid

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Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or	exp	losive limits
Upper explosion limit / Up- per flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 100 °C Method: closed cup
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	ca. 3,8 (20 °C)
	:	ca. 3,8 (20 °C)
рН <b>Viscosity</b> Viscosity, kinematic		ca. 3,8 (20 °C) > 20,5 mm2/s (40 °C)
Viscosity Viscosity, kinematic		
Viscosity	:	
Viscosity Viscosity, kinematic Solubility(ies)	:	> 20,5 mm2/s (40 °C)
Viscosity Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n-	:	> 20,5 mm2/s (40 °C) soluble
Viscosity Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n- octanol/water	: : :	> 20,5 mm2/s (40 °C) soluble No data available
Viscosity Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n- octanol/water Vapour pressure	::	<ul> <li>&gt; 20,5 mm2/s (40 °C)</li> <li>soluble</li> <li>No data available</li> <li>23 hPa</li> </ul>

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#### 9.2 Other information

No data available

# **SECTION 10: Stability and reactivity**

#### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : No data available

#### **10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

# **SECTION 11: Toxicological information**

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

### Acute toxicity

Not classified based on available information.

#### **Components:**

# 1,2-benzisothiazol-3(2H)-one (BIT):

Acute oral toxicity	:	LD50 Oral (Rat): 597 mg/kg
		Acute toxicity estimate: 597 mg/kg Method: Calculation method
Acute inhalation toxicity	:	LC50: 0,4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
		Acute toxicity estimate: 0,4 mg/l Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg

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# 2-octyl-2H-isothiazole-3-one (OIT):

Acute oral toxicity :	Acute toxicity estimate: 125 mg/kg Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
Acute inhalation toxicity :	Acute toxicity estimate: 0,27 mg/l Test atmosphere: dust/mist Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
Acute dermal toxicity :	Acute toxicity estimate: 311 mg/kg Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008
mixture of: 5-chloro-2-methyl-4-i one [EC no. 220-239-6] (3:1) (C	sothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- (M)IT/MIT (3:1)) <b>:</b>
Acute inhalation toxicity :	Assessment: Corrosive to the respiratory tract.
Skin corrosion/irritation Not classified based on available Serious eye damage/eye irrita Not classified based on available	tion
Respiratory or skin sensitisat	ion
Skin sensitisation Not classified based on available	e information.
Respiratory sensitisation Not classified based on available	e information.
Components:	
1,2-benzisothiazol-3(2H)-one (	BIT):
Assessment :	May cause sensitisation by skin contact.
Germ cell mutagenicity Not classified based on available	e information.
Carcinogenicity	
Not classified based on available	e information.
Reproductive toxicity Not classified based on available	e information.
STOT - single exposure	
Not classified based on available	e information.
STOT - repeated exposure	

Not classified based on available information.

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# Aspiration toxicity

Not classified based on available information.

# 11.2 Information on other hazards

### Endocrine disrupting properties

### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

### **Components:**

### 1,2-benzisothiazol-3(2H)-one (BIT):

Toxicity to daphnia and other	:	EC50 (Daphnia (water flea)): 3 mg/l
aquatic invertebrates		Exposure time: 48 h

# 2-octyl-2H-isothiazole-3-one (OIT):

M-Factor (Acute aquatic tox- : 100 icity)

M-Factor (Chronic aquatic : 100 toxicity)

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1)):

M-Factor (Acute aquatic tox- : 100 icity)

M-Factor (Chronic aquatic : 100 toxicity)

# 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

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#### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

# 12.6 Endocrine disrupting properties

Product:		
Assessment	:	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7 Other adverse effects		
Product:		
Additional ecological infor- mation	:	There is no data available for this product.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods The generation of waste should be avoided or minimized Product : wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Waste code Switzerland : 16 10 01 -VeVA/LVA

# **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADR

: Not regulated as a dangerous good

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IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
14.5 Environmental hazards		

Not regulated as a dangerous good

# 14.6 Special precautions for user

Not applicable

# 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable	
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable	
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: None of the components (=> 0.1 %).	are listed
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable	
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	: Not applicable	

# according to Regulation (EC) No. 1907/2006 Sikament<sup>®</sup> MFD-1 A Revision Date: 10.03.2023 Version 6.0 Print Date 19.02.2024 Date of last issue: 06.07.2022 Regulation (EU) 2019/1021 on persistent organic pollu-: Not applicable tants (recast) PIC Ordinance, ChemPICO (814.82) Not applicable **REACH Information:** All substances contained in our Products are - registered by our upstream suppliers, and/or - registered by us, and/or - excluded from the regulation, and/or - exempted from the registration. Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable : WGK 1 slightly hazardous to water Water hazard class (Germa-Classification according to AwSV, Annex 1 (5.2) ny) Volatile organic compounds Law on the incentive tax for volatile organic compounds (VOCV) no VOC duties Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,06% w/w

#### Other regulations:

Young people undergoing basic vocational training may only work with this product if the relevant training ordinance makes provision for them to do so with a view to enabling them to achieve their training objectives and if the preconditions for the training plan have been met and the applicable age restrictions have been complied with. Young people who are not completing any basic vocational training are not permitted to work with this product. Employees of either sex who are under 18 years old are classed as young people.

# 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

# **SECTION 16: Other information**

### Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H310	: Fatal in contact with skin.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.



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H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
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.
Full text of other abbreviati	ons	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
CH SUVA	:	Switzerland. Limit values at the work place
	:	
CH SUVA / TWA	:	Time Weighted Average
CH SUVA / STEL	•	Short Term Exposure Limit
ADR	•	European Agreement concerning the International Carriage of
0.1.0		Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	:	Globally Harmonized System
ΙΑΤΑ	:	International Air Transport Association
IMDG	:	International Maritime Code for Dangerous Goods
LD50	:	Median lethal dosis (the amount of a material, given all at
		once, which causes the death of 50% (one half) of a group of
		test animals)
LC50	:	Median lethal concentration (concentrations of the chemical in
		air that kills 50% of the test animals during the observation
		period)
MARPOL		International Convention for the Prevention of Pollution from
	•	Ships, 1973 as modified by the Protocol of 1978
OEL		Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC	:	Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament
REACH	•	
		and of the Council of 18 December 2006 concerning the Reg-
		istration, Evaluation, Authorisation and Restriction of Chemi-
0.410		cals (REACH), establishing a European Chemicals Agency
SVHC	:	Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative

# Further information

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Silcomont® MED 1 A

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