

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 20/10/2025 Revision date: 20/10/2025 Supersedes version of 2 Revision date: 20/10/2025 Supersedes version of: 23/02/2022

Version: 6.1

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

### 1.1. Product identifier

Product form Mixture Trade name CFS-SP WB Product code **BU Fire Protection** Type of product Sealants



Product group Trade product

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

### 1.2.1. Relevant identified uses

Industrial/Professional use spec For professional use only Use of the substance/mixture Flexible joint spray

1.2.2. Uses advised against

Restrictions on use For professional use only

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

# Supplier

Hilti (Gt. Britain) Ltd. 1 Circle Square 3 Symphony Park GB M1 7FS Manchester Great Britain T +44 161 886 1000

0800 886 100 Toll-free, F +44 161 872 1240

gbsales@hilti.com

# Department issuing data specification sheet

Hilti AG

Feldkircherstraße 100 FL 9494 Schaan Liechtenstein T+423 234 2111

product.compliance-fire.protection@hilti.com

### 1.4. Emergency telephone number

Emergency CONTACT (24-Hour-Number): **Emergency number** 

GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

+44 161 886 1000 0800 886 100 Toll-free

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS Direct (England and Wales) NHS 24 (Scotland)		111	



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# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

# Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP)

Hazard statements (CLP) H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) P273 - Avoid release to the environment.

EUH-statements EUH208 - Contains 2-octyl-2H-isothiazol-3-one, Mixture of 5-chloro-2-methylisothiazol-

3(2H)-one and 2-methylisothiazol-3(2H)-one, 1,2-Benzisothiazol-3(2H)-on. May produce an

allergic reaction.

## 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component			
Calcium carbonate (1317-65-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
2-octyl-2H-isothiazol-3-one (26530-20-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
pyrithione zinc (13463-41-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
1,2-Benzisothiazol-3(2H)-on (2634-33-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
Ammonia, aqueous solution (25%) (1336-21-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component		
Calcium carbonate (1317-65-3)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	



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Component			
Ammonia, aqueous solution (25%) (1336-21-6)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605		
1,2-Benzisothiazol-3(2H)-on (2634-33-5)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605		
pyrithione zinc (13463-41-7)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605		
2-octyl-2H-isothiazol-3-one (26530-20-1)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605		
Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605		

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

# 3.1. Substances

Not applicable

## 3.2. Mixtures

5.2. MIXTURES				
Name	Product identifier	Conc.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Calcium carbonate substance with national workplace exposure limit(s) (GB)	CAS-No.: 1317-65-3 EC-No.: 215-279-6 REACH-no: Exempted in accordance Annex V.7	< 25	Not classified	
hexaboron dizinc undecaoxide, heptahydrate	CAS-No.: 138265-88-0 EC-No.: 235-804-2	1 – 2.5	Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 2, H411	
Ammonia, aqueous solution (25%)	CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2 REACH-no: 01-2119982985- 14	0.1 – 1	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400	
1,2-Benzisothiazol-3(2H)-on	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540- 60	<0.015	Acute Tox. 4 (Oral), H302 (ATE=490 mg/kg bodyweight) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.05 mg/l/4h) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	



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Name	Product identifier	Conc.	Classification according to Regulation (EC) No. 1272/2008 [CLP]
pyrithione zinc	CAS-No.: 13463-41-7 EC-No.: 236-671-3 EC Index-No.: 613-333-00-7 REACH-no: 01-2119511196- 46	<0.002	Repr. 1B, H360D Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.14 mg/l) Acute Tox. 3 (Oral), H301 (ATE=221 mg/kg bodyweight) STOT RE 1, H372 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=10)
2-octyl-2H-isothiazol-3-one	CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	<0.0015	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071
Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	<0.0015	Acute Tox. 3 (Oral), H301 (ATE=66 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0.05 mg/l/4h) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Ammonia, aqueous solution (25%)	CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2 REACH-no: 01-2119982985- 14	(5 ≤ C ≤ 100) STOT SE 3; H335	
1,2-Benzisothiazol-3(2H)-on	CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-	(0.036 ≤ C ≤ 100) Skin Sens. 1; H317	
2-octyl-2H-isothiazol-3-one	CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5	(0.0015 ≤ C ≤ 100) Skin Sens. 1A; H317	



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Specific concentration limits:				
Name	Product identifier	Specific concentration limits		
Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one	CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5	$(0.0015 \le C \le 100)$ Skin Sens. 1A; H317 $(0.06 \le C < 0.6)$ Skin Irrit. 2; H315 $(0.06 \le C < 0.6)$ Eye Irrit. 2; H319 $(0.6 \le C \le 100)$ Skin Corr. 1C; H314 $(0.6 \le C \le 100)$ Eye Dam. 1; H318		

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

Remove affected clothing and wash all exposed skin area with mild soap and water,

followed by warm water rinse.

First-aid measures after 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.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects Not expected to present a significant hazard under anticipated conditions of normal use.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire Carbon dioxide. Carbon monoxide.

## 5.3. Advice for firefighters

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area

without proper protective equipment, including respiratory protection.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment For further information refer to section 8: "Exposure controls/personal protection". Equip

cleanup crew with proper protection.

Emergency procedures Ventilate area.

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### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Collect spillage.

#### 6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapour.

Hygiene measures Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container in a cool, well ventilated place away from : Keep

container closed when not in use.

Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5-25 °C

## 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts are not

relevant for this product.

### 8.1.1. National occupational exposure and biological limit values

Calcium carbonate (1317-65-3)		
United Kingdom - Occupational Exposure Limits		
Local name	Calcium carbonate (Limestone, Marble)	
WEL TWA (OEL TWA)	10 mg/m³ total inhalable 4 mg/m³ respirable	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

### 8.1.2. Recommended monitoring procedures

No additional information available

## 8.1.3. Air contaminants formed

No additional information available

# 8.1.4. DNEL and PNEC

No additional information available

# 8.1.5. Control banding

No additional information available



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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Protective clothing. Safety glasses. Gloves.

#### Personal protective equipment symbol(s):







### 8.2.2.1. Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Use eye protection according to EN 166.

#### 8.2.2.2. Skin protection

#### Hand protection:

Wear protective gloves.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR)	1 (> 10 minutes)	>0.4		EN ISO 374

### Other skin protection

# Materials for protective clothing:

Wear protective clothing

### 8.2.2.3. Respiratory protection

### Respiratory protection:

No respiratory protection needed under normal use conditions

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

Do not eat, drink or smoke during use.

No additional information available

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

# 9.1. Information on basic physical and chemical properties

Physical state Solid

Colour white. red. Grey.

Appearance Pasty.

Molecular mass Not determined Odour characteristic.
Odour threshold Not determined Melting point Not applicable Freezing point Not available Boiling point Not available



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Flammability Not applicable, Non flammable.

Lower explosion limit Not applicable Upper explosion limit Not applicable Not applicable Flash point Auto-ignition temperature Not applicable Not available Decomposition temperature ≈86 рΗ pH solution Not available Viscosity, kinematic Not applicable Solubility Not available Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50°C Not available 1.28 kg/l Not available Not applicable

Vapour pressure at 50°C

Density

Relative density

Relative vapour density at 20°C

Particle size

Particle size distribution

Particle shape

Particle aspect ratio

Particle specific surface area

Not available

Not available

Not available

Not available

Not available

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

VOC content 7.9 g/l ASTM D 2369 – 20, SCAQMD 1113 / fire-proofing coating (llimit 150g/L)

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions. Not established.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

# 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified



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Calcium carbonate (1317-65-3)			
LD50 oral rat	> 5000 mg/kg		
2-octyl-2H-isothiazol-3-one (26530-20-1)			
LD50 oral rat	550 mg/kg (Rat, Literature study, Oral)		
LD50 oral	355 mg/kg		
LD50 dermal rabbit	690 mg/kg bodyweight (Rabbit, Literature study, Dermal)		
LD50 dermal	311 mg/kg		
LC50 Inhalation - Rat	> 2 mg/m³ (4 h, Rat, Literature study, Inhalation (vapours))		
LC50 Inhalation - Rat (Dust/Mist)	0.586 mg/l/4h		
pyrithione zinc (13463-41-7)			
LD50 oral rat	177 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 269 mg/kg bodyweight; Rat; Experimental value)		
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value)		
LC50 Inhalation - Rat	1 mg/l/4h (Rat; Literature study)		
hexaboron dizinc undecaoxide, heptahydrate (1382	265-88-0)		
LD50 oral rat	> 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s))		
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s))		
LC50 Inhalation - Rat	> 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Readacross, Inhalation (dust), 14 day(s))		
Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9)			
LD50 oral rat	66 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Calculated by reference to active substance, Oral, 14 day(s))		
LD50 dermal rat	> 141 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))		
LC50 Inhalation - Rat	0.17 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Calculated by reference to active substance, Inhalation (dust), 14 day(s))		
1,2-Benzisothiazol-3(2H)-on (2634-33-5)			
LD50 oral rat	490 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))		
LD50 oral	670 mg/kg		
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))		
LD50 dermal	2500 mg/kg		
Ammonia, aqueous solution (25%) (1336-21-6)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 5000 mg/kg		
Skin corrosion/irritation	Not classified		
Additional information	pH: $\approx 8.6$ Based on available data, the classification criteria are not met		



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Serious eye damage/irritation Not classified

pH: ≈ 8.6

Additional information Based on available data, the classification criteria are not met

Respiratory or skin sensitisation Skin sensitization: Not classified.

Additional information Based on available data, the classification criteria are not met

Germ cell mutagenicity Not classified

Additional information Based on available data, the classification criteria are not met

Carcinogenicity Not classified

Additional information Based on available data, the classification criteria are not met

Reproductive toxicity Not classified

Based on available data, the classification criteria are not met Additional information

STOT-single exposure Not classified

Additional information Based on available data, the classification criteria are not met

Ammonia, aqueous solution (25%) (1336-21-6)		
STOT-single exposure May cause respiratory irritation.		
STOT-repeated exposure	Not classified	
Additional information	Based on available data, the classification criteria are not met	

pyrithione zinc (13463-41-7)	
STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Not classified
Additional information	Based on available data, the classification criteria are not met

Additional information

# 11.2. Information on other hazards 11.2.1. Endocrine disrupting properties

# 11.2.2. Other information

Potential adverse human health effects and

symptoms

Based on available data, the classification criteria are not met

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

Not classified

Hazardous to the aquatic environment, long-term

Harmful to aquatic life with long lasting effects.

(chronic)

Calcium carbonate (1317-65-3)		
LC50 - Fish [1]	> 10000 mg/l (Oncorhynchus mykiss (rainbow trout)	
EC50 - Crustacea [1]	> 1000 mg/l (Daphnia magna (Water flea)	
EC50 72h - Algae [1]	289 mg/l Desmodesmus subspicatus (green algae)	
NOEC chronic algae	75 mg/l	
2-octyl-2H-isothiazol-3-one (26530-20-1)		
2-octyl-2H-isothiazol-3-one (26530-20-1)		
<b>2-octyl-2H-isothiazol-3-one (26530-20-1)</b> LC50 - Fish [1]	0.14 mg/l (96 h, Pimephales promelas, Literature study)	
, ,	0.14 mg/l (96 h, Pimephales promelas, Literature study) 0.05 mg/l (96 h, Oncorhynchus mykiss, Literature study)	
LC50 - Fish [1]		



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2-octyl-2H-isothiazol-3-one (26530-20-1)		
NOEC chronic fish	0.012 mg/l	
pyrithione zinc (13463-41-7)		
LC50 - Fish [1]	2.6 µg/l (96 h; Pimephales promelas; GLP)	
LC50 - Fish [2]	0.4 mg/l (96 h; Cyprinodon variegatus; GLP)	
EC50 - Crustacea [1]	0.05 mg/l (48 h; Daphnia magna; GLP)	
EC50 - Crustacea [2]	8.2 μg/l (96 h; Daphnia magna; GLP)	
EC50 96h - Algae [1]	1.3 µg/l (EPA OPP 122-2, Skeletonema costatum, Static system, Fresh water, Experimental value, GLP)	
Threshold limit - Algae [1]	0.067 mg/l (Selenastrum capricornutum)	
Threshold limit - Algae [2]	2.4 µg/l (120 h; GLP)	
hexaboron dizinc undecaoxide, heptahydra	nte (138265-88-0)	
LC50 - Fish [1]	169 μg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Readacross)	
EC50 - Crustacea [1]	155 – 413 μg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Readacross)	
Mixture of 5-chloro-2-methylisothiazol-3(2H	l)-one and 2-methylisothiazol-3(2H)-one (55965-84-9)	
LC50 - Fish [1]	0.19 mg/l (EPA OPP 72-1, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, GLP)	
EC50 - Crustacea [1]	0.007 mg/l (48 h, Acartia tonsa, Salt water, Experimental value, GLP)	
ErC50 algae	19.9 μg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Skeletonema costatum, Static system, Salt water, Experimental value, GLP)	
1,2-Benzisothiazol-3(2H)-on (2634-33-5)		
LC50 - Fish [1]	2.18 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Experimental value, Nominal concentration)	
EC50 - Crustacea [1]	0.99 mg/l	
ErC50 algae	150 μg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP)	
Ammonia, aqueous solution (25%) (1336-21	1-6)	
LC50 - Fish [1]	> 1000 mg/l (Oncorhynchus mykiss (Regenbogenforelle); 96 h)	
EC50 - Crustacea [1]	> 1000 mg/l (Daphnia magna (Großer Wasserfloh); 48 h)	
NOEC chronic crustacea	7.1 mg/l	
12.2. Persistence and degradability		
CFS-SP WB		
Persistence and degradability	Not established.	
2-octyl-2H-isothiazol-3-one (26530-20-1)		
Persistence and degradability	Inherently biodegradable.	
pyrithione zinc (13463-41-7)		
Persistence and degradability	Biodegradable in water. No (test)data on mobility of the substance available.	



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hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
Mixture of 5-chloro-2-methylisothiazol-3(2H)-one ar	nd 2-methylisothiazol-3(2H)-one (55965-84-9)	
Persistence and degradability	Not readily biodegradable in water.	
1,2-Benzisothiazol-3(2H)-on (2634-33-5)		
Persistence and degradability	Not readily biodegradable in water.	
Ammonia, aqueous solution (25%) (1336-21-6)		
Persistence and degradability	Biodegradable in the soil. Contains readily biodegradable component(s).	
12.3. Bioaccumulative potential		
CFS-SP WB		
Bioaccumulative potential	Not established.	
2-octyl-2H-isothiazol-3-one (26530-20-1)		
BCF - Fish [1]	1280 (67 day(s), Lepomis macrochirus, Flow-through system, Literature study)	
Partition coefficient n-octanol/water (Log Pow)	2.45 (Experimental value)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).	
pyrithione zinc (13463-41-7)		
BCF - Other aquatic organisms [1]	7.87 – 11 (30 days; Crassostrea sp.)	
Partition coefficient n-octanol/water (Log Pow)	0.9 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
hexaboron dizinc undecaoxide, heptahydrate (1382	65-88-0)	
BCF - Fish [1]	116 – 60960 (21 day(s), Semi-static system, Marine water, Read-across, Fresh weight)	
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).	
Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9)		
BCF - Fish [1]	41 – 54 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	-0.32 – 0.7 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
1,2-Benzisothiazol-3(2H)-on (2634-33-5)		
BCF - Fish [1]	6.62 (Equivalent or similar to OECD 305, 56 day(s), Lepomis macrochirus, Experimental value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	-0.9 – 0.99 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	



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Ammonia, aqueous solution (25%) (1336-21-6)		
Bioaccumulative potential	Does not contain bioaccumulative component(s).	
12.4. Mobility in soil		
2-octyl-2H-isothiazol-3-one (26530-20-1)		
Ecology - soil	No (test)data on mobility of the substance available.	
pyrithione zinc (13463-41-7)		
Surface tension	0.073 N/m (20 °C; 7220 μg/l)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	4.295 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Low potential for mobility in soil.	
hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)		
Surface tension	Data waiving	
Ecology - soil	Adsorbs into the soil.	
Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9)		
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.81 – 1 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	
1,2-Benzisothiazol-3(2H)-on (2634-33-5)		
Surface tension	72.6 mN/m (20 °C, 0.1 %, EU Method A.5: Surface tension)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)	
Ecology - soil	Highly mobile in soil.	
Ammonia, aqueous solution (25%) (1336-21-6)		
Surface tension	No data available in the literature	
Ecology - soil	No (test)data on mobility of the component(s) available.	

# 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

Additional information

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Ecological waste information

Waste treatment methods Product/Packaging disposal recommendations

European List of Waste (LoW, EC 2000/532)

Dispose in a safe manner in accordance with local/national regulations. Dispose in a safe manner in accordance with local/national regulations.

Avoid release to the environment.

08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09



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# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID /

ADR IMDG		IATA	RID
14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable Not applicable		Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable Not applicable		Not applicable	Not applicable
14.4. Packing group			
Not applicable Not applicable		Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable Not applicable		Not applicable	Not applicable

### 14.6. Special precautions for user

### **Overland transport**

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### Rail transport

Not applicable

# 14.7. Maritime transport in bulk according to IMO instruments

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

### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### **REACH Candidate List (SVHC)**

Contains substance(s) listed on the REACH Candidate List < 0.1% or SCL.

## PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)



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### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### VOC Directive (2004/42)

VOC content

7.9 g/l ASTM D 2369 - 20, SCAQMD 1113 / fire-proofing coating (llimit 150g/L)

#### **Explosives Precursors Regulation (EU 2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 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**

Indication of changes			
Section	Changed item	Change	Comments
			General update
1.4	Emergency number	Modified	

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

Full text of H- and EUH-statements:		
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 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	



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Full text of H- and EUH-statements:		
Repr. 1B	Reproductive toxicity, Category 1B	
Repr. 2	Reproductive toxicity, Category 2	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	
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.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H335	May cause respiratory irritation.	
H360D	May damage the unborn child.	
H361d	Suspected of damaging the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
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.	
EUH071	Corrosive to the respiratory tract.	
EUH208	Contains 2-octyl-2H-isothiazol-3-one, Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one, 1,2-Benzisothiazol-3(2H)-on. May produce an allergic reaction.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Chronic 3	H412	Calculation method

SDS\_EU\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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