

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



## CrystalTop (alle Strukturen)

Version number: GHS 3.0  
Replaces version of: 12/06/2022 (GHS 2)

Revision  
12/20/2022

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

#### 1.1 Product identifier

**Trade name** CrystalTop (alle Strukturen)  
**Registration number (REACH)** not relevant (mixture)  
**Unique formula identifier (UFI)** UFI: nicht zutreffend

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

**Relevant identified uses** Coating and paint  
Observe technical data sheet  
**Uses advised against** Observe technical data sheet

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

**Baumit GmbH**  
**Wopfing 156**  
**A-2754 Waldegg**  
**Austria**

Telephone: +43 (0)501 888 0

**This number is only available during office hours: Mon - Thu 07:00 AM - 05:00 PM**  
**Fri 07:00 AM - 12:00 PM**

**e-mail: office@baumit.com**

**e-mail (competent person)** office@baumit.com

#### 1.4 Emergency telephone number

Poison centre			
Country	Name	Postal code/ city	Telephone
Austria	Vergiftungsinformationszentrale an der 1. Medizinischen Universitätsklinik 24h Notruf Mo-So	1090 Wien	+43 (0)1 4064 343-0

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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)

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

##### The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

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

- Signal word not required

- Pictograms not required

##### - Hazard statements

**H412** Harmful to aquatic life with long lasting effects.

##### - Precautionary statements

**P101** If medical advice is needed, have product container or label at hand.

**P102** Keep out of reach of children.

**P103** Read carefully and follow all instructions.

**P260** Do not breathe spray.

**P273** Avoid release to the environment.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

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

##### - Supplemental hazard information

**EUH208** Contains Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, 2-Octyl-2H-isothiazol-3-on. May produce an allergic reaction.

**EUH210** Safety data sheet available on request.

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### - Biocidal Products Regulation (BPR)

Contains:

Biocidal active substances
<b>Name of substance</b>
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one
1,2-benzisothiazol-3(2H)-one
Terbutryn
2-Octyl-2H-isothiazol-3-on

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

Description of the mixture:

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Terbutryn	CAS No 886-50-0	0.0015 – < 0.015	Acute Tox. 4 / H302 Skin Sens. 1B / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
2-Octyl-2H-isothiazol-3-on	CAS No 26530-20-1  EC No 247-761-7  Index No 613-112-00-5  REACH Reg. No 01-2120768921-45-xxxx	0.0015 – < 0.015	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 2 / H330 Skin Corr. 1 / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	CAS No 55965-84-9  Index No 613-167-00-5  REACH Reg. No 01-2120764691-48-xxxx	0.001 – < 0.015	Acute Tox. 3 / H301 Acute Tox. 2 / H310 Acute Tox. 2 / H330 Skin Corr. 1C / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	

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Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Terbutryn	-	M-factor (acute) = 100 M-factor (chronic) = 100	500 mg/kg	oral
2-Octyl-2H-isothiazol-3-on	Skin Sens. 1A; H317: C ≥ 0.0015 %	M-factor (acute) = 100 M-factor (chronic) = 100	125 mg/kg 300 mg/kg 0.5 mg/l/ 4h 0.27 mg/l/ 4h	oral dermal inhalation: vapour inhalation: dust/ mist
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	M-factor (acute) = 100 M-factor (chronic) = 100	100 mg/kg 50 mg/kg 0.5 mg/l/ 4h 0.05 mg/l/ 4h	oral dermal inhalation: vapour inhalation: dust/ mist

For full text of abbreviations: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

None.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO<sub>2</sub>)

##### Unsuitable extinguishing media

Water jet

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

##### Hazardous combustion products

Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes, Co-ordinate firefighting measures to the fire surroundings, Do not allow firefighting water to enter drains or water courses, Collect contaminated firefighting water separately, Fight fire with normal precautions from a reasonable distance

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Remove persons to safety.

##### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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

##### Advice on how to contain a spill

Covering of drains

##### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

##### Appropriate containment techniques

Use of adsorbent materials.

##### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

##### Recommendations

##### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

##### - Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

##### Control of effects

##### Protect against external exposure, such as

frost

#### 7.3 Specific end use(s)

See section 16 for a general overview.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Ceiling-C [ppm]	Ceiling-C [mg/m <sup>3</sup> ]	Notation	Source
AT	2-octyl-2H-isothiazol-3-one	26530-20-1	MAK		0.05				0.05	i, H	GKV
AT	reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	MAK		0.05						GKV

##### Notation

Ceiling-C

H

i

STEL

TWA

ceiling value is a limit value above which exposure should not occur absorbed through the skin

inhalable fraction

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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### Relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	DNEL	0.02 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	DNEL	0.04 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects

### Relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2-Octyl-2H-isothiazol-3-on	26530-20-1	PNEC	2.2 µg/l	aquatic organisms	freshwater	short-term (single instance)
2-Octyl-2H-isothiazol-3-on	26530-20-1	PNEC	0.22 µg/l	aquatic organisms	marine water	short-term (single instance)
2-Octyl-2H-isothiazol-3-on	26530-20-1	PNEC	47.5 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-Octyl-2H-isothiazol-3-on	26530-20-1	PNEC	4.75 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-Octyl-2H-isothiazol-3-on	26530-20-1	PNEC	8.2 µg/kg	terrestrial organisms	soil	short-term (single instance)
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	PNEC	3.39 µg/l	aquatic organisms	freshwater	short-term (single instance)
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	PNEC	3.39 µg/l	aquatic organisms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	PNEC	0.23 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	PNEC	0.027 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	PNEC	0.027 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	PNEC	0.01 mg/kg	terrestrial organisms	soil	short-term (single instance)



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### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Eye/face protection



**Wear eye/face protection.**

##### Skin protection

###### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

###### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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### SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	liquid (paste)
<b>Colour</b>	different
<b>Odour</b>	characteristic
<b>Melting point/freezing point</b>	not determined
<b>Boiling point or initial boiling point and boiling range</b>	100 °C
<b>Flammability</b>	non-combustible
<b>Lower and upper explosion limit</b>	not determined
<b>Flash point</b>	not determined
<b>Auto-ignition temperature</b>	not determined
<b>Decomposition temperature</b>	not relevant
<b>pH (value)</b>	8
<b>Kinematic viscosity</b>	not determined

#### Solubility(ies)

<b>Water solubility</b>	miscible in any proportion
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#### Partition coefficient

<b>Partition coefficient n-octanol/water (log value)</b>	this information is not available
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<b>Vapour pressure</b>	32 hPa at 25 °C
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#### Density and/or relative density

<b>Density</b>	1,800 g/l
<b>Relative vapour density</b>	information on this property is not available

<b>Particle characteristics</b>	not relevant (liquid)
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### 9.2 Other information

<b>Information with regard to physical hazard classes</b>	hazard classes acc. to GHS (physical hazards): not relevant
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#### Other safety characteristics

<b>Miscibility</b>	Completely miscible with water.
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

<b>Acute toxicity estimate (ATE) of components of the mixture</b>			
<b>Name of substance</b>	<b>CAS No</b>	<b>Exposure route</b>	<b>ATE</b>
Terbutryn	886-50-0	oral	500 mg/kg
2-Octyl-2H-isothiazol-3-on	26530-20-1	oral	125 mg/kg
2-Octyl-2H-isothiazol-3-on	26530-20-1	dermal	300 mg/kg
2-Octyl-2H-isothiazol-3-on	26530-20-1	inhalation: vapour	0.5 mg/l/4h

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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
2-Octyl-2H-isothiazol-3-on	26530-20-1	inhalation: dust/mist	0.27 mg/l/4h
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	oral	100 mg/kg
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	dermal	50 mg/kg
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	inhalation: vapour	0.5 mg/l/4h
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	inhalation: dust/mist	0.05 mg/l/4h

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation

Contains Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one, 2-Octyl-2H-isothiazol-3-on. May produce an allergic reaction

### Classification Octylisothiazolinone:

Not skin sensitising based on results on similar mixtures tested using transfer principles according to CLP Regulation Article 9 (4); OECD 429 LLNA (mouse) - Not skin sensitising - S4565 / S4568 / S5145 / S5147.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

There is no additional information.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	LC50	0.07 mg/l	fish	14 d
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	EC50	>0.18 mg/l	aquatic invertebrates	21 d
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	ErC50	45.6 µg/l	algae	120 h

#### 12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	carbon dioxide generation	38.8 %	29 d		ECHA

#### 12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-Octyl-2H-isothiazol-3-on	26530-20-1	2.92	2.61 (pH value: 7, 25 °C)	

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### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one	55965-84-9	54	$\geq -0.34 - \leq 0.63$ (pH value: 7, 10 °C)	

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Endocrine disrupting properties

None of the ingredients are listed.

### Endocrine disrupting chemicals (EDC)

Name of substance	CAS No	Combined category	Human health category	Wildlife category
Terbutryn	886-50-0	CAT1	CAT1	CAT3b

#### Legend

CAT1 Category 1 - evidence of endocrine disruption in at least one species using intact animals  
CAT3b Category 3b - no evidence of endocrine disruption or no data available

#### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste codes/waste designations according to LoW

15 01 02: Plastic packaging

08 01 12: Waste paint and varnish other than those mentioned in 08 01 11

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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### SECTION 14: Transport information

- 14.1 UN number or ID number** not subject to transport regulations
- 14.2 UN proper shipping name** not relevant
- 14.3 Transport hazard class(es)** none
- 14.4 Packing group** not assigned
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**  
There is no additional information.
- 14.7 Maritime transport in bulk according to IMO instruments**  
The cargo is not intended to be carried in bulk.

#### Information for each of the UN Model Regulations

##### **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information**

Not subject to ADR, RID and ADN.

##### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

Not subject to IMDG.

##### **International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Not subject to ICAO-IATA.

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**Relevant provisions of the European Union (EU)**  
**Restrictions according to REACH, Annex XVII**

Dangerous substances with restrictions (REACH, Annex XVII)							
Name of substance	Name acc. to inventory	CAS No	EC No	Type of registration	Remarks	Restriction	No
CrystalTop (alle Strukturen)	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC			1907/2006/EC annex XVII	Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:	R3	3

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### Dangerous substances with restrictions (REACH, Annex XVII)

Name of substance	Name acc. to inventory	CAS No	EC No	Type of registration	Remarks	Restriction	No
					(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.		
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one		55965-84-9					
2-Octyl-2H-isothiazol-3-on		26530-20-1	247-761-7				
Terbutryn		886-50-0					

#### Legend

R3

- Shall not be used in:
  - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
  - can be used as fuel in decorative oil lamps for supply to the general public, and
  - present an aspiration hazard and are labelled with H304.
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
- Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  - lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows:



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### Legend

"Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";  
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';  
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

none of the ingredients are listed

### Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

### Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3-one		a)	
Terbutryn	886-50-0	b)	
Terbutryn	886-50-0	c)	
Terbutryn		a)	

### Legend

- A) Indicative list of the main pollutants
- B) List of priority substances in the field of water policy
- C) Environmental Quality Standards for Priority Substances and certain other pollutants

### Regulation on the marketing and use of explosives precursors

Not relevant.

### Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

### National regulations (Austria)

**Ordinance on combustible liquids (VbF)** not assigned (flash point higher than 55 °C, water miscible)

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
2.2		- Supplemental hazard information: change in the listing (table)	yes
2.2.1.7	- Hazardous ingredients for labelling: 2-Octyl-2H-isothiazol-3-on, Reaction mass of 2-methyl-2H-isothiazol-3-one and 5-chloro-2-methyl-2H-isothiazol-3- one		yes
3.2		Description of the mixture:: change in the listing (table)	yes
3.2		Description of the mixture:: change in the listing (table)	yes
8.1		Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components of the mixture: change in the listing (table)	yes
11.1		Acute toxicity estimate (ATE) of compon- ents of the mixture: change in the listing (table)	yes
11.1	Respiratory or skin sensitisation: Shall not be classified as a respiratory or skin sensitiser. Classification Octylisothiazolinone: Not skin sensitising based on results on similar mixtures tested using transfer principles according to CLP Regulation Article 9 (4); OECD 429 LLNA (mouse) - Not skin sensitising - S4565 / S4568 / S5145 / S5147.	Respiratory or skin sensitisation: Contains Reaction mass of 2-methyl-2H- isothiazol-3-one and 5-chloro-2-methyl- 2H-isothiazol-3-one, 2-Octyl-2H-iso- thiazol-3-on. May produce an allergic re- action  Classification Octylisothiazolinone: Not skin sensitising based on results on similar mixtures tested using transfer principles according to CLP Regulation Article 9 (4); OECD 429 LLNA (mouse) - Not skin sensitising - S4565 / S4568 / S5145 / S5147.	yes
12.1		Aquatic toxicity (chronic) of compon- ents of the mixture: change in the listing (table)	yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
13.1	Waste codes/waste designations according to LoW Organic wastes containing hazardous substances: 15 01 02: Plastic packaging 08 01 12: Waste paint and varnish other than those mentioned in 08 01 11		yes
13.1		Waste codes/waste designations according to LoW: 15 01 02: Plastic packaging 08 01 12: Waste paint and varnish other than those mentioned in 08 01 11	yes
15.1		List of pollutants (WFD): change in the listing (table)	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16		List of relevant phrases (code and full text as stated in section 2 and 3): change in the listing (table)	yes

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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Abbr.	Descriptions of used abbreviations
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
GKV	Grenzwerteverordnung
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
LoW	List of Wastes
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration

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Abbr.	Descriptions of used abbreviations
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.  
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.

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Code	Text
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.