

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Revision date: 15-Jun-2022

Revision Number: 1

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

1.1. Product identifier

Product Name: Conti FA-Zusatz
Article number: 082190360000

Hazard components for labeling:

Contains 3(2H)-Isothiazolone, 2-octyl-, 3(2H)-Isothiazolone, 2-methyl-, 1,2-Benzisothiazol-3(2H)-one, 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone, Terbutryn

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

1.3. Details of the supplier of the safety data sheet

Supplier: conti coatings GmbH & Co. KG
Feldstrasse 55
D - 46149 Oberhausen
Telefon: +49 208/ 9948-0
Telefax: +49 208/ 650625
www.conticoatings.com

E-mail address: sds.ob@conticoatings.com

1.4. Emergency telephone number

Emergency Telephone: +49 177 / 214 4737 (24 h)

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Austria	+43 1 406 43 43 (Giftinformationszentrale)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin sensitization	Category 1A - (H317)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements



Signal word: Warning

Hazard components for labeling:

Contains 3(2H)-Isothiazolone, 2-octyl-, 3(2H)-Isothiazolone, 2-methyl-, 1,2-Benzisothiazol-3(2H)-one,

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5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone, Terbutryn

Hazard statements:

H317 - May cause an allergic skin reaction.

H410 - Very toxic to aquatic life with long lasting effects.

EU Specific Hazard Statements:

Precautionary Statements - EU (§28, 1272/2008):

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

P102 - Keep out of reach of children

P273 - Avoid release to the environment

P280 - Wear protective gloves

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	CAS No	EC No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Calcium carbonate	471-34-1	207-439-9	-		10 - < 25
Zinc oxide (ZnO)	1314-13-2	215-222-5	01-2119463881-32	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	1 - < 3
Terbutryn	886-50-0	212-950-5	-	Acute Tox. 4 (H302) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.25 - < 0.5
3(2H)-Isothiazolone, 2-octyl-	26530-20-1	247-761-7	01-2120768921-45	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	0.1 - < 0.25
2-Bromo-2-nitro-1,3-propanediol	52-51-7	200-143-0	01-2119980938-15	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.01 - < 0.05
3(2H)-Isothiazolone, 2-methyl-	2682-20-4	220-239-6	01-2120764690-50	Acute Tox. 3 (H301)	0.005 - < 0.01

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				Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (EUH071)	
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Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Terbutryn 886-50-0	Skin Sens. 1B :: C>=3%	100	100	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	Skin Sens. 1 :: C>=0.0015%	100	100	
2-Bromo-2-nitro-1,3-propanediol 52-51-7		10	1	
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	Skin Sens. 1A :: C>=0.0015%	10	10	

Acute Toxicity Estimate:

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Calcium carbonate 471-34-1	6450	2000	3	No data available	No data available
Zinc oxide (ZnO) 1314-13-2	5005	2000	5.8	No data available	No data available
Terbutryn 886-50-0	500	10210.2	9	No data available	No data available
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	125	311	270	3	No data available
2-Bromo-2-nitro-1,3-propanediol 52-51-7	180	1600	No data available	No data available	No data available
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	120	242	0.34	0.501	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance.

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Inhalation:	Remove to fresh air.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact:	Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.
Ingestion:	Rinse mouth.

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

Symptoms: Itching. Rashes. Hives.

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

Note to physicians: May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical: Product is or contains a sensitizer. May cause sensitization by skin contact.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders: Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions: See Section 12 for additional Ecological Information.

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6.3. Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.
Methods for cleaning up: Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections: See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling



Advice on safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Other information: No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits:

Chemical name	European Union	Germany	Netherlands	Spain	United Kingdom	Hungary
Zinc oxide (ZnO) 1314-13-2				TWA: 2 mg/m ³ STEL: 10 mg/m ³		TWA: 5 mg/m ³ STEL: 20 mg/m ³
3(2H)-Isothiazolone, 2-octyl- 26530-20-1		TWA: 0.05 mg/m ³ H*				

Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
Calcium carbonate 471-34-1	TWA: 10 mg/m ³		TWA: 10 mg/m ³			

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Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
Zinc oxide (ZnO) 1314-13-2	TWA: 5 mg/m ³ TWA: 10 mg/m ³		TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 4 mg/m ³	TWA: 2 mg/m ³ Ceiling: 5 mg/m ³

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Calcium carbonate 471-34-1		TWA: 3 mg/m ³	TWA: 10 mg/m ³			
Zinc oxide (ZnO) 1314-13-2	TWA: 5 mg/m ³	TWA: 3 mg/m ³ STEL: 3 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 0.5 mg/m ³ MAC: 1.5 mg/m ³
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	TWA: 0.05 mg/m ³ STEL 0.05 mg/m ³ Ceiling: 0.05 mg/m ³ H* S+	S+ TWA: 0.05 mg/m ³ STEL: 0.1 mg/m ³ H*				
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	TWA: 0.05 mg/m ³ Sh+	S+ TWA: 0.2 mg/m ³ STEL: 0.4 mg/m ³				

Biological occupational exposure limits:

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Calcium carbonate			6.36 mg/m ³	
Zinc oxide (ZnO)	5 mg/m ³		0.5 mg/m ³	
2-Bromo-2-nitro-1,3-propaned iol	3.5 mg/m ³	10.5 mg/m ³	2.5 mg/m ³	2.5 mg/m ³
3(2H)-Isothiazolone, 2-methyl-			0.021 mg/m ³	0.043 mg/m ³

Worker - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Zinc oxide (ZnO)	83 mg/kg bw/day			
2-Bromo-2-nitro-1,3-propaned iol	2 mg/kg bw/day	6 mg/kg bw/day	8 µg/cm ²	8 µg/cm ²

Consumer - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Calcium carbonate			1.06 mg/m ³	
Zinc oxide (ZnO)	2.5 mg/m ³			
2-Bromo-2-nitro-1,3-propaned iol	0.6 mg/m ³	1.8 mg/m ³		0.6 mg/m ³
3(2H)-Isothiazolone, 2-methyl-			0.021 mg/m ³	0.043 mg/m ³

Consumer - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
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Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Zinc oxide (ZnO)	83 mg/kg bw/day			
2-Bromo-2-nitro-1,3-propanediol	0.7 mg/kg bw/day	2.1 mg/kg bw/day	4 µg/cm ²	4 µg/cm ²

consumer - oral:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Calcium carbonate	6.1 mg/kg bw/day	6.1 mg/kg bw/day		
Zinc oxide (ZnO)	0.83 mg/kg bw/day			
2-Bromo-2-nitro-1,3-propanediol	0.18 mg/kg bw/day	0.5 mg/kg bw/day		
3(2H)-Isothiazolone, 2-methyl-	0.027 mg/kg bw/day	0.053 mg/kg bw/day		

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Calcium carbonate CAS: 471-34-1
Sewage treatment	100 mg/L
Chemical name	Zinc oxide (ZnO) CAS: 1314-13-2
Freshwater	20.6 µg/L
Marine water	6.1 µg/L
Sewage treatment	100 µg/L
Freshwater sediment	117.8 mg/kg sediment dw
Marine sediment	56.5 mg/kg sediment dw
Soil	35.6 mg/kg soil dw
Chemical name	3(2H)-Isothiazolone, 2-octyl- CAS: 26530-20-1
Freshwater	2.2 µg/L
Marine water	0.22 µg/L
Freshwater (intermittent release)	1.22 µg/L
Marine water (intermittent release)	0.122 µg/L
Freshwater sediment	47.5 µg/kg sediment dw
Marine sediment	4.75 µg/kg sediment dw
Soil	8.2 µg/kg soil dw
Chemical name	2-Bromo-2-nitro-1,3-propanediol CAS: 52-51-7
Freshwater	0.01 mg/L
Marine water	0.0008 mg/L
Freshwater (intermittent release)	0.0025 mg/L
Sewage treatment	0.43 mg/L
Freshwater sediment	0.041 mg/kg sediment dw
Marine sediment	0.00328 mg/kg sediment dw
Soil	0.5 mg/kg soil dw
Chemical name	3(2H)-Isothiazolone, 2-methyl- CAS: 2682-20-4
Freshwater	3.39 µg/L
Marine water	3.39 µg/L
Freshwater (intermittent release)	3.39 µg/L
Marine water (intermittent release)	3.39 µg/L

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Sewage treatment	0.23 mg/L
Soil	0.0471 mg/kg soil dw

8.2. Exposure controls

Engineering controls: None under normal use conditions.

Personal protective equipment: The usual precautionary measures for the handling of chemicals have to be observed.



Eye/face protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear suitable gloves.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Recommended Filter Type: Filtering device (full mask or mouthpiec) with filter: AP-2

Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance dispersion
Color white
Odor characteristic

			Conditions	Method	Remarks
Melting point / melting range					Not established
Boiling point / boiling range	>	107	°C		
Flammability					Not established
Decomposition temperature					not relevant
Flash point					Not established
Autoignition temperature					None known
Lower explosive limit					not relevant
Upper explosion limit					not relevant
Vapor pressure					Not established
Density	~	1.090	g/cm ³	20 °C	
Water solubility					Miscible
pH		8 - 9		20 °C	
pH (as aqueous solution)					Not established
Partition coefficient					Not established
Kinematic viscosity					Not applicable
Odor threshold					Not established
Relative density					Not established
Evaporation rate					Not established
Relative vapor density					no data available

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Particle Size no data available
Particle Size Distribution no data available

9.2. Other information

Bulk density: no data available
Softening point No information available
Molecular weight No information available

9.2.1. Information with regard to physical hazard classes:

Explosive properties Not an explosive
Oxidizing properties Not oxidising.

9.2.2. Other safety characteristics: No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No information available.

10.2. Chemical stability

Stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None.
Sensitivity to static discharge: None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None under normal processing.

10.4. Conditions to avoid

Conditions to avoid: None known based on information supplied.

10.5. Incompatible materials

Incompatible materials: None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products: None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure:

Product Information:

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Inhalation:	Specific test data for the substance or mixture is not available.
Eye contact:	Specific test data for the substance or mixture is not available.
Skin contact:	May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).
Ingestion:	Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: Itching. Rashes. Hives.

Numerical measures of toxicity:

Acute toxicity: The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral):	55,555.60 mg/kg
ATEmix (inhalation-gas):	44,448.90 ppm
ATEmix (inhalation-dust/mist):	20.30 mg/l
ATEmix (inhalation-vapor):	222.70 mg/l

Component Information:

Chemical name	Parameter	Species	effektive Dosis	Method
Calcium carbonate 471-34-1	Oral LD50	Rat	6450 mg/kg	
Zinc oxide (ZnO) 1314-13-2	Oral LD50	Rat	> 5000 mg/kg	OECD 401
Terbutryn 886-50-0	Oral LD50	Rat	2045 mg/kg	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	Oral LD50	Rat	125 mg/kg	
2-Bromo-2-nitro-1,3-propanediol 52-51-7	Oral LD50	Rat	180 mg/kg	
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	Oral LD50	Rat	120 mg/kg	

Chemical name	Parameters	Species	Effective dose	Method
Terbutryn 886-50-0	Dermal LD50	Rabbit	> 10200 mg/kg	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	Dermal LD50	Rabbit	311 mg/kg	
2-Bromo-2-nitro-1,3-propanediol 52-51-7	Dermal LD50	Rat	1600 mg/kg	
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	Dermal LD50	Rabbit	200 mg/kg	

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Zinc oxide (ZnO) 1314-13-2	Inhalation LC50	Rat	> 5.7 mg/L	4 h	
Terbutryn 886-50-0	Inhalation LC50	Rat	> 8 g/m ³	4 h	

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Chemical name	Parameters	Species	Effective dose	Exposure time	Method
3(2H)-Isothiazolone, 2-octyl-26530-20-1	Inhalation LC50	Rat	270 mg/m ³		
2-Bromo-2-nitro-1,3-propanediol 52-51-7	Inhalation LC50	Rat	800 mg/m ³	4 h	
3(2H)-Isothiazolone, 2-methyl-2682-20-4	Inhalation LC50	Rat	0.34 mg/L	4 h	

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation:	No information available.
Serious eye damage/eye irritation:	No information available.
Respiratory or skin sensitization:	May cause an allergic skin reaction.
Germ cell mutagenicity:	No information available.
Carcinogenicity:	No information available.
Reproductive toxicity:	No information available.
STOT - single exposure:	No information available.
STOT - repeated exposure:	No information available.
Aspiration hazard:	No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No information available.

11.2.2. Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Zinc oxide (ZnO) 1314-13-2	LC50	Danio rerio	1.55 mg/L	96 h	
3(2H)-Isothiazolone, 2-octyl-26530-20-1	LC50		0.122 mg/L	96 h	
2-Bromo-2-nitro-1,3-propanediol 52-51-7	LC50	Lepomis macrochirus	11 mg/L	96 h	OECD 203

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Chemical name	Parameter	Species	Effective dose	Exposure time	Method
3(2H)-Isothiazolone, 2-methyl-2682-20-4	LC50		4.77 mg/L	96 h	

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Zinc oxide (ZnO) 1314-13-2	EC50	Ceriodaphnia dubia	0.413 mg/L	48 h	
3(2H)-Isothiazolone, 2-octyl-26530-20-1	EC50		0.181 mg/L	48 h	
2-Bromo-2-nitro-1,3-propanediol 52-51-7	EC50	Daphnia magna	1.04 mg/L	48 h	OECD 202
3(2H)-Isothiazolone, 2-methyl-2682-20-4	LC50		0.934 mg/L	48 h	

Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Zinc oxide (ZnO) 1314-13-2	EC50	Selenastrum capricornutum	0.137 mg/L	72 h	OECD 201
3(2H)-Isothiazolone, 2-octyl-26530-20-1	EC50		0.150 mg/L	96 h	
2-Bromo-2-nitro-1,3-propanediol 52-51-7	EC50	Anabaena flos aqua	0.068 mg/L	72 h	OECD 201
3(2H)-Isothiazolone, 2-methyl-2682-20-4	EC50		0.103 mg/L	72 h	

Bacteria toxicity:

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
Zinc oxide (ZnO) 1314-13-2	EC50	activated sludge	2.4 mg/L	3 h	
Terbutryn 886-50-0	EC20	activated sludge	>100 mg/L	3 h	
3(2H)-Isothiazolone, 2-octyl-26530-20-1	EC20	activated sludge	7.3 mg/L	3 h	
2-Bromo-2-nitro-1,3-propanediol 52-51-7	EC50	activated sludge	43 mg/L	3 h	
3(2H)-Isothiazolone, 2-methyl-2682-20-4	EC50		41 mg/L	3 h	

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
2-Bromo-2-nitro-1,3-propa	100 %	28 d	Yes		

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Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
nediol 52-51-7					
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	100 %	0.07 d	Yes		

12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Terbutryn 886-50-0	3.19	103
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	2.92	
2-Bromo-2-nitro-1,3-propanediol 52-51-7	0.38	3.16
3(2H)-Isothiazolone, 2-methyl- 2682-20-4		3.16

12.4. Mobility in soil

Mobility in soil: No information available.

Mobility: No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment:

Chemical name	PBT and vPvB assessment
Calcium carbonate 471-34-1	The substance is not PBT / vPvB PBT assessment does not apply
Zinc oxide (ZnO) 1314-13-2	The substance is not PBT / vPvB
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	The substance is not PBT / vPvB
2-Bromo-2-nitro-1,3-propanediol 52-51-7	The substance is not PBT / vPvB
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties.

No information available.

Chemical name	EU - Endocrine Disrupters Candidate List	EU - Endocrine Disrupters - Evaluated Substances
Terbutryn 886-50-0	Group III Chemical	-

12.7. Other adverse effects.

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No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products: Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

Contaminated packaging: Do not reuse empty containers.

SECTION 14: Transport information

14.1. UN number

ADR: UN3082
RID: UN3082
IMDG: UN3082
IATA: UN3082

14.2 UN proper shipping name

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Terbutryn, 3(2H)-Isothiazolone, 2-octyl-), 9, III

RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Terbutryn, 3(2H)-Isothiazolone, 2-octyl-), 9, III

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERBUTRYN, 3(2H)-ISOTHIAZOLONE, 2-OCTYL-), 9, III, MARINE POLLUTANT

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TERBUTRYN, 3(2H)-ISOTHIAZOLONE, 2-OCTYL-), 9, III

14.3. Transport hazard class(es)

ADR: 9
Hazard label(s) 9
Classification code M6
Hazard identification number 90
(Kemler No.)
Tunnel restriction code (-)
Limited quantity (LQ) 5 L
Excepted quantity E1

RID: 9
Labels 9
Classification code M6

IMDG: 9
Hazard label(s) 9

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Limited quantity (LQ) 5 L
Excepted quantity E1
EmS-No F-A, S-F

IATA: 9
Hazard label(s) 9
Excepted quantity E1

14.4. Packing group

ADR: III
RID: III
IMDG: III
IATA: III

14.5. Environmental hazards

ADR: Yes
RID: Yes
IMDG: Marine pollutant
IATA: Yes

14.6. Special precautions for user

ADR:
Special Provisions: 274, 335, 601, 375
RID:
Special Provisions: 274, 335, 375, 601
IMDG:
Special Provisions: 274, 335, 969
IATA:
Special Provisions: A97, A158, A197
ERG Code 9L

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

SECTION 15: Regulatory information

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

European Union:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

- This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Substance subject to authorization per REACH Annex XIV	Restricted substance per REACH Annex XVII
Calcium carbonate		75.

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471-34-1		
Zinc oxide (ZnO) 1314-13-2		75.
3(2H)-Isothiazolone, 2-octyl- 26530-20-1		75.
2-Bromo-2-nitro-1,3-propanediol 52-51-7		75.
3(2H)-Isothiazolone, 2-methyl- 2682-20-4		75.

Persistent Organic Pollutants: Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU):
E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Ozone-depleting substances (ODS) regulation (EC) 1005/2009: Not applicable

EU - Plant Protection Products (1107/2009/EC):

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Calcium carbonate 471-34-1	The conclusions of the renewal report on Calcium carbonate, and in particular Appendices I and II thereto, shall be taken into account (Commission Implementing Regulation 2021/1448/EU, listed under part D)

Biocidal Products Regulation (EU) No 528/2012 (BPR):

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	8 - Wood preservatives
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	13 - Working or cutting fluid preservatives 12 - Slimicides 11 - Preservatives for liquid-cooling and processing systems

EU - Water Framework Directive (2000/60/EC):

Chemical name	EU - Water Framework Directive (2000/60/EC)
Terbutryn 886-50-0	Priority substance

EU - Environmental Quality Standards (2008/105/EC):

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Terbutryn 886-50-0	Priority Substance ([45])

volatile organic compounds (VOC) content:
acc. reg. 2010/75/EG: .? %

National regulations:

Denmark:

Chemical name	Denmark - MAL
Zinc oxide (ZnO) 1314-13-2	0 m ³ /10 g substance MAL factor >0 % by weight [1]
2-Bromo-2-nitro-1,3-propanediol 52-51-7	50000 m ³ /10 g substance MAL factor 2500 m ³ /10 g substance MAL factor

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3(2H)-Isothiazolone, 2-methyl- 2682-20-4	0 m ³ /10 g substance MAL factor >=0.03 - 1.0 % by weight [3] >=0.003 - 1.0 % by weight [3] >=1.0 % by weight [6]
---	---

Germany:

Water hazard class (WGK): strongly hazardous to water (WGK 3) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
Calcium carbonate 471-34-1	nwg	317
Zinc oxide (ZnO) 1314-13-2	2	2187
Terbutryn 886-50-0	2	612
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	3	2962
2-Bromo-2-nitro-1,3-propanediol 52-51-7	2	5204
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	3	2960

TA Luft (German Air Pollution Control Regulation):
total dust incl. fine dust (digit 5.2.1): 25 - 30%
org. subst. dust (digit 5.2.5): < 5%
org. subst. (digit 5.2.5) class I: < 5%

Storage class (TRGS 510): LGK13 - Non-combustible solids

Netherlands:

Water contaminating class (Netherlands): A (1)

Austria:

Flammable Liquids Regulations, VbF: Not regulated

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 0 %

International Inventories:

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report: No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3:

EUH071 - Corrosive to the respiratory tract
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H310 - Fatal in contact with skin
H311 - Toxic in contact with skin
H312 - Harmful 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
H330 - Fatal if inhaled
H335 - May cause respiratory irritation
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

Legend:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road
(Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany)
BCF: Bio-Concentration Factor
BOD(5): Biochemical oxygen demand (within 5 days)
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Carcinogenic, Mutagenic, toxic for Reproduction
DIN: German Standards Institute / German industrial norm
DNEL: Derived No Effect Level
DOC: Dissolved organic carbon
EAK/ AVV: European waste catalogue/ waste directory-regulation
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
IC50: Inhibition Concentration 50%

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IMDG: International Maritime Dangerous Goods Code
LC50: Lethal Concentration 50% - LD50: Lethal dose 50%
MAK: Treshold limit values Germany
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
OECD: Organization for Economic Cooperation and Development
PBT: persistent, bioaccumulative, toxic
PC: Product category
PNEC: Predicted No Effect Concentration
REACH: Registration, Evaluation and Authorization of Chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
(Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
STP: Sewage treatment plant
SVHC: Substance of Very High Concern
TLV: Threshold Limit Value
TWA: Time Weighted Average
UN: United Nations
VOC: Volatile Organic Compounds
vPvB: very persistent, very bioaccumulative

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ceiling: Maximum limit value

* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS:

European Chemicals Agency (ECHA)

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AELG(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

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Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006:

Disclaimer:

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End of Safety Data Sheet