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



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

1.1. Product identifier

Product Name: Conti Dur
Article number: 025670360514

Hazard components for labeling: Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with

2-methyl-3(2H)-isothiazolone, 1,2-Benzisothiazol-3(2H)-one,

3(2H)-Isothiazolone, 2-methyl-

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

Product categories [PC]: PC9 - Coatings and paints, fillers, putties, thinners

Sector of uses [SU]: SU19 - Building and construction work

1.3. Details of the supplier of the safety data sheet

Supplier: conti coatings GmbH

Feldstrasse 55

D - 46149 Oberhausen Telefon: +49 208/ 9948-0 Telefax: +49 208/ 650625 www.conticoatings.com

E-mail address sds.ob@kluthe.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)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements



Signal word: Warning

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Hazard components for labeling:

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

Hazard statements:

H317 - May cause an allergic skin reaction.

H412 - Harmful to aquatic life with long lasting effects.

EU Specific Hazard Statements:

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves

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

2.3. Other hazards

Harmful to aquatic life.

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.	Weight-%
				1272/2008 [CLP]	
Diethylene glycol monobutyl ether	112-34-5	203-961-6	01-2119475104-44	Eye Irrit. 2 (H319)	1 - < 3
Quartz	14808-60-7	238-878-4	•	[B]	0.01 - < 0.05
2-Bromo-2-nitro-1,3-propanedi ol	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
1,2-Benzisothiazol-3(2H)-one	2634-33-5	220-120-9	01-2120761540-60	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	0.005 - < 0.01
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)	
Zinc pyrithione	13463-41-7	236-671-3	01-2119511196-46	Acute Tox. 3 (H301) Eye Dam. 1 (H318) Acute Tox. 3 (H331) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.005 - < 0.01
Terbutryn	886-50-0	212-950-5	-	Acute Tox. 4 (H302) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	0.005 - < 0.01
5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone	55965-84-9	-	01-2120764691-48	Acute Tox. 3 (H301) Acute Tox. 2 (H310) 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)	0.001 - < 0.005

[B] - Substance with a Community workplace exposure limit

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
2-Bromo-2-nitro-1,3-propanediol 52-51-7		10	1	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Skin Sens. 1 :: C>=0.05%			
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	Skin Sens. 1A :: C>=0.0015%	10	10	
Zinc pyrithione 13463-41-7		100	10	
Terbutryn 886-50-0		100	100	
5-Chloro-2-methyl-3(2H)-isothiazolon e, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	Skin Corr. 1C :: C>=0.6% Skin Irrit. 2 :: 0.06%<=C<0.6% Eye Dam. 1 :: C>=0.6% Eye Irrit. 2 :: 0.06%<=C<0.6% Skin Sens. 1A :: C>=0.0015%	100	100	

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

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Chemical name	Oral LD50	Dermal LD50	hour - dust/mist -	Inhalation LC50 - 4 hour - vapor - mg/L	
Diethylene glycol monobutyl ether 112-34-5	2410	2764	mg/L No data available	No data available	No data available
2-Bromo-2-nitro-1,3-propanedi ol 52-51-7	180	1600	No data available	No data available	No data available
1,2-Benzisothiazol-3(2H)-one 2634-33-5	490	No data available	0.0501	0.501	No data available
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	120	242	0.34	0.501	No data available
Zinc pyrithione 13463-41-7	177	100	0.0501	3	No data available
Terbutryn 886-50-0	500	10210.2	9	No data available	No data available
5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	457	660	0.0501	0.501	No data available

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.

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

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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.

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

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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
Diethylene glycol	TWA: 10 ppm	TWA: 10 ppm	TWA: 50 mg/m ³	TWA: 10 ppm	TWA: 10 ppm	TWA: 67.5 mg/m ³
monobutyl ether	TWA: 67.5 mg/m ³	TWA: 67 mg/m ³	STEL: 100 mg/m ³	TWA: 67.5 mg/m ³	TWA: 67.5 mg/m ³	STEL: 101.2
112-34-5			H*	STEL: 15 ppm	STEL: 15 ppm	mg/m³
				STEL: 101.2	STEL: 101.2	
				mg/m³	mg/m³	
Quartz	TWA: 0.1 mg/m ³		TWA: 0.075	TWA: 0.05 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.15 mg/m ³
14808-60-7			mg/m³			

Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
Diethylene glycol	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 100 mg/m ³
monobutyl ether	TWA: 68 mg/m ³	TWA: 67.5 mg/m ³	TWA: 67.5 mg/m ³	TWA: 68 mg/m ³	TWA: 68 mg/m ³	Ceiling: 100
112-34-5	STEL: 15 ppm	STEL: 15 ppm	STEL: 15 ppm			mg/m³
	STEL: 101.2	STEL: 101.2	STEL: 101.2			
	mg/m³	mg/m³	mg/m³			
Quartz	TWA: 0.1 mg/m ³		TWA: 0.025	TWA: 0.05 mg/m ³	TWA: 0.3 mg/m ³	TWA: 0.1 mg/m ³
14808-60-7			mg/m³		TWA: 0.1 mg/m ³	

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Diethylene glycol	TWA: 10 ppm	TWA: 10 ppm	STEL: 100 mg/m ³	TWA: 10 ppm	TWA: 10 ppm	MAC: 10 mg/m ³
monobutyl ether	TWA: 67.5 mg/m ³	TWA: 67 mg/m ³	TWA: 67 mg/m ³	TWA: 68 mg/m ³	TWA: 67.5 mg/m ³	
112-34-5	STEL 15 ppm	STEL: 15 ppm		STEL: 15 ppm	STEL: 15 ppm	
	STEL 101.2	STEL: 101 mg/m ³		STEL: 102 mg/m ³	STEL: 101.2	
	mg/m³				mg/m³	
Quartz	TWA: 0.15 mg/m ³	TWA: 0.15 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.3 mg/m ³	TWA: 0.1 mg/m ³	TWA: 1 mg/m ³
14808-60-7				TWA: 0.1 mg/m ³		STEL: 3 mg/m ³
				STEL: 0.9 mg/m ³		
				STEL: 0.3 mg/m ³		
2-Bromo-2-nitro-1,3-propa						MAC: 3 mg/m ³

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Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
nediol						Skin
52-51-7						
3(2H)-Isothiazolone,	TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³				
2-methyl-	_	STEL: 0.4 mg/m ³				
2682-20-4		_				
5-Chloro-2-methyl-3(2H)-i	TWA: 0.05 mg/m ³					
sothiazolone, mixture with						
2-methyl-3(2H)-isothiazolo						
ne						
55965-84-9						

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
Diethylene glycol monobutyl ether	67.5 mg/m³		67.5 mg/m ³	101.2 mg/m³
2-Bromo-2-nitro-1,3-propaned iol	3.5 mg/m³	10.5 mg/m³	2.5 mg/m³	2.5 mg/m³
1,2-Benzisothiazol-3(2H)-one	6.81 mg/m ³			
3(2H)-Isothiazolone, 2-methyl-	0.043 mg/m³		0.043 mg/m ³	0.043 mg/m ³
5-Chloro-2-methyl-3(2H)-isoth iazolone, mixture with 2-methyl-3(2H)-isothiazolone	0.02 mg/m ³		0.02 mg/m ³	0.04 mg/m ³

Worker - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Diethylene glycol monobutyl	83 mg/kg bw/day			
ether				
1,2-Benzisothiazol-3(2H)-one	966 mg/kg bw/day			
Zinc pyrithione	0.01 mg/kg bw/day			

Consumer - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Diethylene glycol monobutyl ether	40.5 mg/m³		40.5 mg/m³	60.7 mg/m³
2-Bromo-2-nitro-1,3-propaned iol	0.6 mg/m³	0.00018 mg/m ³	0.6 mg/m³	0.6 mg/m³
1,2-Benzisothiazol-3(2H)-one	1.2 mg/m ³			
3(2H)-Isothiazolone, 2-methyl-			0.043 mg/m ³	0.043 mg/m ³
5-Chloro-2-methyl-3(2H)-isoth iazolone, mixture with 2-methyl-3(2H)-isothiazolone			0.02 mg/m³	0.04 mg/m³

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Consumer - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Diethylene glycol monobutyl	50 mg/kg bw/day			
ether				
2-Bromo-2-nitro-1,3-propaned	0.7 mg/kg bw/day	0.0021 mg/kg bw/day	4 μg/cm²	4 μg/cm²
iol				
1,2-Benzisothiazol-3(2H)-one	345 mg/kg bw/day			

consumer - oral:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
Diethylene glycol monobutyl ether	5 mg/kg bw/day			
2-Bromo-2-nitro-1,3-propaned iol	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		
5-Chloro-2-methyl-3(2H)-isoth iazolone, mixture with 2-methyl-3(2H)-isothiazolone	0.09 mg/kg bw/day	0.11 mg/kg bw/day		

Predicted No Effect Concentration (PNEC):

component information:

Chemical name	Diethylene glycol monobutyl ether		
Freshwater	1.1 mg/L		
Marine water	0.11 mg/L		
Intermittent release	3.9 mg/L		
Impact on Sewage Treatment	200 mg/L		
Freshwater sediment	4.4 mg/kg		
Marine sediment	0.44 mg/kg		
Soil	0.32 mg/kg		
Food chain	56 mg/kg		

Chemical name	2-Bromo-2-nitro-1,3-propanediol		
Freshwater	0.01 mg/L		
Marine water	800 μg/L		
Intermittent release	2.5 μg/L		
Freshwater sediment	0.43 mg/L		
Marine sediment	0.00328 mg/L		
Soil	0.5 mg/kg		

Chemical name	1,2-Benzisothiazol-3(2H)-one
Freshwater	4.03 μg/L
Marine water	0.403 μg/L
Intermittent release	1.1 μg/L
Freshwater sediment	0.0499 mg/kg dry weight
Marine sediment	0.00499 mg/kg dry weight
Soil	0.0471 mg/kg

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Chemical name	3(2H)-Isothiazolone, 2-methyl-		
Freshwater	0.00339 mg/L		
Marine water	0.00339 mg/L		
Intermittent release	0.00339 mg/L		

Chemical name	Zinc pyrithione
Freshwater	0.09 μg/L
Marine water	0.09 μg/L
Freshwater sediment	0.095 mg/kg dry weight
Marine sediment	0.095 mg/kg dry weight
Soil	1.02 mg/kg dry weight

Chemical name 5-Chloro-2-methyl-3(2H)-isothiazolone, mix 2-methyl-3(2H)-isothiazolone		
Freshwater	0.00339 mg/L	
Marine water 3.39 µg/L		
Intermittent release	3.39 µg/L	
Freshwater sediment	0.027 mg/kg dry weight	
Marine sediment	0.027 mg/kg dry weight	
Soil	0.01 mg/kg dry weight	

8.2. Exposure controls

Engineering controls: None under normal use conditions.

Personal protective equipment:



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

Hand protection: Wear suitable gloves.

PPE - Glove material	Glove thickness	Break through time
NBR (Nitrile rubber)	0.4 mm	>=480 min.

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 AP-2

Environmental exposure controls: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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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 ~ 1.530 g/cm³ 20 °C

Water solubility Miscible

pH 8 - 9 20 °C

pH (as aqueous solution)

Not applicable

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 Particle Size no data available Particle Size Distribution no data available

9.2. Other information

Bulk density:no data availableSoftening pointNo information availableMolecular weightNo information available

9.2.1. Information with regard to physical hazard classes:

Explosive properties Not an explosive Oxidizing properties Not oxidising.

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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:

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:

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Symptoms: Itching. Rashes. Hives.

Numerical measures of toxicity:

Acute toxicity: No information available

Component Information:

Chemical name	Parameter	Species	effektive Dosis	Method
Diethylene glycol monobutyl ether 112-34-5	Oral LD50	Mouse	2410 mg/kg	OECD 401
2-Bromo-2-nitro-1,3-propanediol 52-51-7	Oral LD50	Rat	180 mg/kg	
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Oral LD50	Rat	490 mg/kg	
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	Oral LD50	Rat	120 mg/kg	
Zinc pyrithione 13463-41-7	Oral LD50	Rat	177 mg/kg	
Terbutryn 886-50-0	Oral LD50	Rat	2045 mg/kg	
5-Chloro-2-methyl-3(2H)-isothiazolon e, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	Oral LD50	Rat	457 mg/kg	

Chemical name	Parameters	Species	Effective dose	Method
Diethylene glycol monobutyl ether 112-34-5	Dermal LD50	Rabbit	2764 mg/kg	OECD 402
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	
Zinc pyrithione 13463-41-7	Dermal LD50	Rabbit	100 mg/kg	
Terbutryn 886-50-0	Dermal LD50	Rabbit	> 10200 mg/kg	
5-Chloro-2-methyl-3(2H)-isothiazolon e, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	Dermal LD50	Rabbit	660 mg/kg	

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
2-Bromo-2-nitro-1,3-propanedi	Inhalation LC50	Rat	800 mg/m ³	4 h	
ol					
52-51-7					
3(2H)-Isothiazolone, 2-methyl-	Inhalation LC50	Rat	0.34 mg/L	4 h	
2682-20-4					
Zinc pyrithione	Inhalation LC50	Rat	0.05 - 0.5 mg/L	4 h	
13463-41-7			140 mg/m ³		
Terbutryn	Inhalation LC50	Rat	> 8 g/m ³	4 h	
886-50-0					

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Chemical name	Parameters	Species	Effective dose	Exposure time	Method
5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	Inhalation LC50	Rat	171 - 2360 mg/m ³	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 sensitization by skin contact.

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

11.2.2. Other information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity: Harmful to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Diethylene glycol monobutyl	LC50	Lepomis macrochirus	1300 mg/L	96 h	OECD 203
ether					
112-34-5					
2-Bromo-2-nitro-1,3-propanedi	LC50	Lepomis macrochirus	11 mg/L	96 h	OECD 203
ol					
52-51-7					
1,2-Benzisothiazol-3(2H)-one	LC50		2.15 mg/L	96 h	
2634-33-5					

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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	
5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	LC50	Oncorhynchus mykiss	0.22 mg/L	96 h	OECD 203

toxicity to crustacea:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Diethylene glycol monobutyl	EC50	Daphnia magna	2850 mg/L	48 h	
ether					
112-34-5					
2-Bromo-2-nitro-1,3-propanedi	EC50	Daphnia magna	1.04 mg/L	48 h	OECD 202
ol					
52-51-7					
1,2-Benzisothiazol-3(2H)-one	EC50		2.9 mg/L	48 h	
2634-33-5					
3(2H)-Isothiazolone, 2-methyl-	LC50		0.934 mg/L	48 h	
2682-20-4					
5-Chloro-2-methyl-3(2H)-isothi	EC50	Daphnia magna	0.1 mg/L	48 h	OECD 202
azolone, mixture with					
2-methyl-3(2H)-isothiazolone					
55965-84-9					

Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
Diethylene glycol monobutyl ether 112-34-5	EC50	Desmodesmus subspicatus	> 100 mg/L	96 h	OECD 201
2-Bromo-2-nitro-1,3-propanedi ol 52-51-7	EC50	Anabaena flos aqua	0.068 mg/L	72 h	OECD 201
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50		0.11 mg/L	72 h	
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	EC50		0.103 mg/L	72 h	
5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50	Pseudokirchneriella subcapitata	0.048 mg/L	72 h	OECD 201

Bacteria toxicity:

Chemical name	Parameters	Species	Effective dose	Exposure time	Method
2-Bromo-2-nitro-1,3-propanedi	EC50	activated sludge	43 mg/L	3 h	
ol					
52-51-7					
1,2-Benzisothiazol-3(2H)-one	EC50		12.8 mg/L	3 h	
2634-33-5					

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Chemical name	Parameters	Species	Effective dose	Exposure time	Method
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	EC50		41 mg/L	3 h	
Terbutryn 886-50-0	EC20	activated sludge	>100 mg/L	3 h	
5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50	activated sludge	7.92 mg/L	3 h	

12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
Diethylene glycol monobutyl ether 112-34-5	89-93 %	28 d	Yes	Aerobic biological treatment	
2-Bromo-2-nitro-1,3-propa nediol 52-51-7	100 %	28 d	Yes		
1,2-Benzisothiazol-3(2H)- one 2634-33-5	100 %	0.04 d	Yes		OECD 307
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	100 %	0.07 d	Yes		
Zinc pyrithione 13463-41-7	100 %		Yes		
5-Chloro-2-methyl-3(2H)-i sothiazolone, mixture with 2-methyl-3(2H)-isothiazol one 55965-84-9		28 d	Yes		OECD 301

12.3. Bioaccumulative potential

Bioaccumulation:

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Diethylene glycol monobutyl ether		99.9
112-34-5		
2-Bromo-2-nitro-1,3-propanediol	0.38	3.16
52-51-7		
1,2-Benzisothiazol-3(2H)-one		6.62
2634-33-5		
3(2H)-Isothiazolone, 2-methyl-		3.16
2682-20-4		
Zinc pyrithione	1.12	1.4
13463-41-7		
Terbutryn	3.19	103
886-50-0		

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5-Chloro-2-methyl-3(2H)-isothiazolone, mixture	< 0.71	3.16
with 2-methyl-3(2H)-isothiazolone		
55965-84-9		

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
Diethylene glycol monobutyl ether	The substance is not PBT / vPvB
112-34-5	PBT assessment does not apply
2-Bromo-2-nitro-1,3-propanediol	The substance is not PBT / vPvB
52-51-7	
1,2-Benzisothiazol-3(2H)-one	The substance is not PBT / vPvB
2634-33-5	
3(2H)-Isothiazolone, 2-methyl-	The substance is not PBT / vPvB
2682-20-4	
Zinc pyrithione	The substance is not PBT / vPvB
13463-41-7	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with	The substance is not PBT / vPvB
2-methyl-3(2H)-isothiazolone	
55965-84-9	

12.6. Endocrine disrupting properties.

No information available.

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

12.7. Other adverse effects.

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with

products: environmental legislation.

Contaminated packaging: Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV: 08 01 12 (waste paint and varnish other than those mentioned in 08 01 11)

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SECTION 14: Transport information

14.1. UN number

ADR: Not regulated RID: Not regulated IMDG: Not regulated IATA: Not regulated Not regulated Not regulated

14.2 UN proper shipping name

ADR: Not regulated RID: Not regulated IMDG: Not regulated IATA: Not regulated Not regulated Not regulated

14.3. Transport hazard class(es)

ADR: Not regulated RID: Not regulated IMDG: Not regulated IATA: Not regulated Not regulated Not regulated Not regulated

14.4. Packing group

ADR: Not regulated RID: Not regulated IMDG: Not regulated IATA: Not regulated Not regulated Not regulated

14.5. Environmental hazards

ADR: Not regulated RID: Not regulated IMDG: Not regulated IATA: Not regulated Not regulated Not regulated

14.6. Special precautions for user

ADR: Not regulated RID: Not regulated IMDG: Not regulated IATA: Not regulated

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

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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
Diethylene glycol monobutyl ether		55.
112-34-5		75.
2-Bromo-2-nitro-1,3-propanediol		75.
52-51-7		
1,2-Benzisothiazol-3(2H)-one		75.
2634-33-5		
3(2H)-Isothiazolone, 2-methyl-		75.
2682-20-4		
Zinc pyrithione		75.
13463-41-7		
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture		3
with 2-methyl-3(2H)-isothiazolone		
55965-84-9		

Persistent Organic Pollutants: Not applicable

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

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EG: 2.4 % acc. reg. 2004/42/EG (Decopaint): 36 g/L

National regulations:

Denmark:

Chemical name	Denmark - MAL
Diethylene glycol monobutyl ether	0 m3/10 g substance MAL factor
112-34-5	>=10.0 % by weight [3]
Quartz	0 m3/10 g substance MAL factor
14808-60-7	0.1 mg/m³ Limit Value respirable
	>=0.1 - 2 % by weight [3]
	>=1 - 10 % by weight [3]
	>=10 % by weight [6]
	>=2 % by weight [6]
2-Bromo-2-nitro-1,3-propanediol	50000 m3/10 g substance MAL factor
52-51-7	2500 m3/10 g substance MAL factor
1,2-Benzisothiazol-3(2H)-one	0 m3/10 g substance MAL factor
2634-33-5	>=1.0 % by weight [3]
3(2H)-Isothiazolone, 2-methyl-	0 m3/10 g substance MAL factor
2682-20-4	>=0.03 - 1.0 % by weight [3]
	>=0.003 - 1.0 % by weight [3]
	>=1.0 % by weight [6]
Zinc pyrithione	0 m3/10 g substance MAL factor

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13463-41-7	>=1 % by weight [3]

Germany:

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

Chemical name	WGK Classification (AwSV)	ID number
Diethylene glycol monobutyl ether 112-34-5	1	46
Quartz 14808-60-7	nwg	849
2-Bromo-2-nitro-1,3-propanediol 52-51-7	2	5204
1,2-Benzisothiazol-3(2H)-one 2634-33-5	2	5141
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	3	2960
Zinc pyrithione 13463-41-7	3	7636
Terbutryn 886-50-0	2	612
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	3	2959

TA Luft (German Air Pollution Control Regulation):

total dust incl. fine dust (digit 5.2.1): 40 - 45% inorg. subst. dust (digit 5.2.2) class III: < 5% org. substances (Ziffer 5.2.5): 5 - 10% org. subst. dust (digit 5.2.5): < 5%

Storage class (TRGS 510): 12 • LGK12 - Non-combustible liquids

France:

Occupational Illnesses (R-463-3, France):

Chemical name	French RG number
Diethylene glycol monobutyl ether	RG 84
112-34-5	
Quartz	RG 25
14808-60-7	
1,2-Benzisothiazol-3(2H)-one	RG 65
2634-33-5	

RG 25 - Conditions resulting from inhalation of mineral dusts containing crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc), graphite, or coal.

RG 65 - Allergic eczema

RG 84 - Occupational conditions caused by liquid organic solvents

Netherlands:

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Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins	ZZS list: SVHC	(p)ZZS list: potential SVHC
Quartz 14808-60-7	Present X				

Austria:

Flammable Liquids Regulations, VbF: Not regulated

Switzerland:

VOC content:: acc. VOCV CH 814.018, att. 1: 1.2 %

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:

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

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H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eve irritation

H330 - Fatal if inhaled

H331 - Toxic 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 merchandises 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%

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

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* 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	
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) (AEGL(s))

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

U.S. Environmental Protection Agency High Production Volume Chemicals

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:

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any process, unless specified in the text.

End of Safety Data Sheet