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 TeknoDry
Article number: 026670360514

UFI: QS6H-EVMD-A70H-1FRA

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

## 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 & 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)
Chronic aquatic toxicity	Category 3 - (H412)

#### 2.2. Label elements



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Signal word: Warning

#### 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

#### **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

Causes mild skin irritation. Toxic 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. 1272/2008 [CLP]	Weight-%
Titanium dioxide	13463-67-7	236-675-5	01-2119489379-17		10 - < 25
Silica, cristobalite	14464-46-1	238-455-4	•	STOT RE 1 (H372)	5 - < 10
2-Butoxyethanol	111-76-2	203-905-0	01-2119475108-36	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H332)	1 - < 3
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
3(2H)-Isothiazolone, 2-methyl-	2682-20-4	220-239-6	01-2120764690-50	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Skin Corr. 1B (H314) Skin Sens. 1A (H317) Eye Dam. 1 (H318)	0.005 - < 0.01

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				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)	0.005 - < 0.01
				Eye Dam. 1 (H318)	
				Acute Tox. 2 (H330)	
				Repr. 1B (H360D)	
				STOT RE 1 (H372)	
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 1	
				(H410)	
Terbutryn	886-50-0	212-950-5	-	Acute Tox. 4 (H302)	0.005 - < 0.01
				Skin Sens. 1B (H317)	
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 1	
				· (H410)	
3(2H)-Isothiazolone, 2-octyl-	26530-20-1	247-761-7	01-2120768921-45	Acute Tox. 3 (H301)	0.001 - < 0.005
				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)	
5-Chloro-2-methyl-3(2H)-isothi	55965-84-9	611-341-5	01-2120764691-48	Acute Tox. 3 (H301)	0.001 - < 0.005
azolone, mixture with		911-418-6		Acute Tox. 2 (H310)	
2-methyl-3(2H)-isothiazolone				Skin Corr. 1B (H314)	
				Skin Sens. 1A (H317)	
				Eye Dam. 1 (H318)	
				Acute Tox. 2 (H330)	
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 1	
				(H410)	
				(ÈUH071)	

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	
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	Skin Sens. 1A :: C>=0.0015%	10	10	
Zinc pyrithione 13463-41-7		1000	10	
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	
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%	100	100	

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Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
	Skin Sens. 1A :: C>=0.0015%			

#### 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
Titanium dioxide 13463-67-7	10010	No data available	7	No data available	No data available
2-Butoxyethanol 111-76-2	1300	2001	1.5	11	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
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
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	125	311	270	3	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

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.

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.

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

Symptoms: Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

### 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.

### 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

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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
Titanium dioxide		TWA: 1.25 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	
13463-67-7		TWA: 10 mg/m <sup>3</sup>			TWA: 4 mg/m <sup>3</sup>	
					STEL: 30 mg/m <sup>3</sup>	
					STEL: 12 mg/m <sup>3</sup>	
Silica, cristobalite	TWA: 0.1 mg/m <sup>3</sup>		TWA: 0.075	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
14464-46-1			mg/m³		STEL: 0.3 mg/m <sup>3</sup>	
2-Butoxyethanol	TWA: 20 ppm	TWA: 10 ppm	TWA: 100 mg/m <sup>3</sup>	TWA: 20 ppm	TWA: 25 ppm	TWA: 98 mg/m <sup>3</sup>
111-76-2	TWA: 98 mg/m <sup>3</sup>	TWA: 49 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>	TWA: 123 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>
	STEL: 50 ppm	H*	H*	STEL: 50 ppm	STEL: 50 ppm	b*
	STEL: 246 mg/m <sup>3</sup>			STEL: 245 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	
	*			vía dérmica*	Sk*	
3(2H)-Isothiazolone,		TWA: 0.05 mg/m <sup>3</sup>				
2-octyl-		H*				
26530-20-1						

Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>		TWA: 6 mg/m <sup>3</sup>	
	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.15 mg/m <sup>3</sup> TWA: 0.05 mg/m <sup>3</sup>	
2-Butoxyethanol	TWA: 10 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 20 ppm	TWA: 100 mg/m <sup>3</sup>

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Chemical name	France	Italy	Portugal	Finland	Denmark	Czech Republic
111-76-2	TWA: 49 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>	Ceiling: 200			
	STEL: 50 ppm	STEL: 50 ppm	STEL: 50 ppm	STEL: 50 ppm	H*	mg/m³
	STEL: 246 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	STEL: 250 mg/m <sup>3</sup>		D*
	*	cute*	Cutânea*	iho*		

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
Titanium dioxide	TWA: 5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	STEL: 30 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
13463-67-7	STEL 10 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup>	TWA: 4 mg/m <sup>3</sup>	
					STEL: 30 mg/m <sup>3</sup>	
					STEL: 12 mg/m <sup>3</sup>	
Silica, cristobalite	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.15 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>
14464-46-1				TWA: 0.1 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup>	MAC: 3 mg/m <sup>3</sup>
				TWA: 0.15 mg/m <sup>3</sup>		
				STEL: 0.15 mg/m <sup>3</sup>		
				STEL: 0.45 mg/m <sup>3</sup>		
				STEL: 0.3 mg/m <sup>3</sup>		
2-Butoxyethanol	TWA: 20 ppm	TWA: 10 ppm	STEL: 200 mg/m <sup>3</sup>	TWA: 10 ppm	TWA: 20 ppm	MAC: 5 mg/m <sup>3</sup>
111-76-2	TWA: 98 mg/m <sup>3</sup>	TWA: 49 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>	TWA: 98 mg/m <sup>3</sup>	
	STEL 40 ppm	STEL: 20 ppm	skóra*	STEL: 20 ppm	STEL: 50 ppm	
	STEL 200 mg/m <sup>3</sup>	STEL: 98 mg/m <sup>3</sup>		STEL: 75 mg/m <sup>3</sup>	STEL: 246 mg/m <sup>3</sup>	
	H*	H*		H*	Sk*	
3(2H)-Isothiazolone,	TWA: 0.05 mg/m <sup>3</sup>	S+				
2-methyl-	Sh+	TWA: 0.2 mg/m <sup>3</sup>				
2682-20-4		STEL: 0.4 mg/m <sup>3</sup>				
3(2H)-Isothiazolone,	TWA: 0.05 mg/m <sup>3</sup>	S+				
2-octyl-	STEL 0.05 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>				
26530-20-1	Ceiling: 0.05	STEL: 0.1 mg/m <sup>3</sup>				
	mg/m³	H*				
	H*					
	S+					
5-Chloro-2-methyl-3(2H)-i	TWA: 0.05 mg/m <sup>3</sup>	S+				
sothiazolone, mixture with		TWA: 0.2 mg/m <sup>3</sup>				
2-methyl-3(2H)-isothiazolo						
ne						
55965-84-9						

Biological occupational exposure limits:

Chemical name	European Union	Germany	Netherlands	Spain	United Kingdom	Hungary
2-Butoxyethanol	-	150 mg/g		200 mg/g	240 mmol/mol	
111-76-2		Creatinine (urine -		Creatinine - urine	creatinine - urine	
		Butoxyacetic acid		(Butoxyacetic acid	(Butoxyacetic	
		(after hydrolysis)		(with hydrolysis)) -	acid) - post shift	
		for long-term		end of shift		
		exposures: at the				
		end of the shift				
		after several				
		shifts)				
		150 mg/g				
		Creatinine (urine -				
		Butoxyacetic acid				
		(after hydrolysis)				
		end of shift)				
		150 mg/g				
		Creatinine - BAT				
		(for long-term				
		exposures: at the				
		end of the shift				
		after several				

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Chemical name	European Union	Germany	Netherlands	Spain	United Kingdom	Hungary
		shifts) urine 150 mg/g Creatinine - BAT				
		(end of exposure or end of shift) urine				

Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
2-Butoxyethanol	-	150 mg/g	=	=	200 mg/g	
111-76-2		creatinine - urine			Creatinine (urine -	
		(2-Butoxyacetic			end of shift)	
		acid (after				
		hydrolysis)) - end				
		of shift, and after				
		several shifts (for				
		long-term `				
		exposures)				

Derived No Effect Level (DNEL):

component information:

Worker - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
2-Butoxyethanol	98 mg/m <sup>3</sup>	1091 mg/m <sup>3</sup>		246 mg/m <sup>3</sup>
2-Bromo-2-nitro-1,3-propaned	3.5 mg/m <sup>3</sup>	10.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>	2.5 mg/m <sup>3</sup>
iol				
3(2H)-Isothiazolone,			0.021 mg/m <sup>3</sup>	0.043 mg/m <sup>3</sup>
2-methyl-				
5-Chloro-2-methyl-3(2H)-isoth			0.02 mg/m <sup>3</sup>	0.04 mg/m <sup>3</sup>
iazolone, mixture with				
2-methyl-3(2H)-isothiazolone				

Worker - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
2-Butoxyethanol	125 mg/kg bw/day	89 mg/kg bw/day		
2-Bromo-2-nitro-1,3-propaned	2 mg/kg bw/day	6 mg/kg bw/day	8 μg/cm2	8 μg/cm2
iol				. •
Zinc pyrithione	0.01 mg/kg bw/day			

Consumer - inhalative:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
2-Butoxyethanol	59 mg/m <sup>3</sup>	426 mg/m <sup>3</sup>		147 mg/m <sup>3</sup>
2-Bromo-2-nitro-1,3-propaned	0.6 mg/m <sup>3</sup>	1.8 mg/m <sup>3</sup>		0.6 mg/m <sup>3</sup>
iol	_	_		_
3(2H)-Isothiazolone,			0.021 mg/m <sup>3</sup>	0.043 mg/m <sup>3</sup>
2-methyl-			_	_
5-Chloro-2-methyl-3(2H)-isoth			0.02 mg/m <sup>3</sup>	0.04 mg/m <sup>3</sup>
iazolone, mixture with			_	_
2-methyl-3(2H)-isothiazolone				

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#### Consumer - dermal:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
2-Butoxyethanol	75 mg/kg bw/day	89 mg/kg bw/day		
2-Bromo-2-nitro-1,3-propaned	0.7 mg/kg bw/day	2.1 mg/kg bw/day	4 μg/cm2	4 μg/cm2
iol				-

#### consumer - oral:

Chemical name	long term, systemic	short term, systemic	long term, local	short term, local
2-Butoxyethanol	6.3 mg/kg bw/day	26.7 mg/kg bw/day		
2-Bromo-2-nitro-1,3-propaned	0.18 mg/kg bw/day	0.5 mg/kg bw/day		
iol				
3(2H)-Isothiazolone,	0.027 mg/kg bw/day	0.053 mg/kg bw/day		
2-methyl-				
5-Chloro-2-methyl-3(2H)-isoth	0.09 mg/kg bw/day	0.11 mg/kg bw/day		
iazolone, mixture with				
2-methyl-3(2H)-isothiazolone				

## Predicted No Effect Concentration (PNEC):

## component information:

Chemical name	2-Butoxyethanol CAS: 111-76-2		
Freshwater	8.8 mg/L		
Marine water	0.88 mg/L		
Freshwater (intermittent release)	26.4 mg/L		
Sewage treatment	463 mg/L		
Freshwater sediment	34.6 mg/kg sediment dw		
Marine sediment	3.46 mg/kg sediment dw		
Soil	2.33 mg/kg soil dw		
Food chain	0.02 g/kg food		
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		
Sewage treatment	0.23 mg/L		
Soil	0.0471 mg/kg soil dw		
Chemical name	Zinc pyrithione CAS: 13463-41-7		

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Freshwater	90 ng/L
Marine water	90 ng/L
Sewage treatment	0.01 mg/L
Freshwater sediment	0.0095 mg/kg sediment dw
Marine sediment	0.0095 mg/kg sediment dw
Soil	1.02 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	5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone CAS: 55965-84-9
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
Sewage treatment	0.23 mg/L
Freshwater sediment	0.027 mg/kg sediment dw
Marine sediment	0.027 mg/kg sediment dw
Soil	0.01 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.

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) with filter: AP-2

Environmental exposure controls: No information available.

## SECTION 9: Physical and chemical properties

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Not established

Not established

Not established

Not applicable

Not established

Not applicable

Not established

Not established

Not established

not relevant

None known

not relevant

not relevant

Miscible

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## 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 > 100 °C

Flammability

Decomposition temperature
Flash point

Autoignition temperature
Lower explosive limit
Upper explosion limit
Vapor pressure

**Density** ~ 1.489 g/cm³ 20 °C

Water solubility
pH 8 - 9 20 °C

pH 8 - 9 20 °C pH (as aqueous solution)
Partition coefficient

Odor threshold
Relative density
Evaporation rate
Relative vapor density

Relative vapor density no data available Particle Size no data available Particle Size Distribution no data available

9.2. Other information

Kinematic viscosity

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.

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.

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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). Causes mild skin irritation.

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. Prolonged contact may cause redness and irritation.

Numerical measures of toxicity:

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

ATEmix (oral): 12,849.80 mg/kg
ATEmix (inhalation-dust/mist): 64.10 mg/l
ATEmix (inhalation-vapor): 550.00 mg/l

Component Information:

Chemical name	Parameter	Species	effektive Dosis	Method
Titanium dioxide 13463-67-7	Oral LD50	Rat	> 10000 mg/kg	
2-Butoxyethanol	Oral LD50	Rat	1300 mg/kg	OECD 401

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Chemical name	Parameter	Species	effektive Dosis	Method
111-76-2				
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	
Zinc pyrithione 13463-41-7	Oral LD50	Rat	177 mg/kg	
Terbutryn 886-50-0	Oral LD50	Rat	2045 mg/kg	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	Oral LD50	Rat	125 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
2-Butoxyethanol 111-76-2	Dermal LD50	Guinea pig	> 2000 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	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	Dermal LD50	Rabbit	311 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
Titanium dioxide 13463-67-7	Inhalation LD50	Rat	> 6.82 mg/L	4 h	
2-Butoxyethanol 111-76-2	Inhalation LC0	Guinea pig	> 3.1 mg/L	1 h	OECD 403
2-Bromo-2-nitro-1,3-propanedi ol 52-51-7	Inhalation LC50	Rat	800 mg/m <sup>3</sup>	4 h	
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	Inhalation LC50	Rat	0.34 mg/L	4 h	
Zinc pyrithione 13463-41-7	Inhalation LC50	Rat	0.05 - 0.5 mg/L 140 mg/m <sup>3</sup>	4 h	
Terbutryn 886-50-0	Inhalation LC50	Rat	> 8 g/m <sup>3</sup>	4 h	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	Inhalation LC50	Rat	270 mg/m <sup>3</sup>		
5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone	Inhalation LC50	Rat	171 - 2360 mg/m³	4 h	

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Chemical name	Parameters	Species	Effective dose	Exposure time	Method
55965-84-9					

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

Skin corrosion/irritation: Causes mild skin irritation.

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: Based on available data, the classification criteria are not met.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Titanium dioxide	Carc. 2

Reproductive toxicity: Based on available data, the classification criteria are not met.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Zinc pyrithione	Repr. 1B

STOT - single exposure: No information available.

Due to the incorporation of the fine particles into the material STOT - repeated exposure:

matrix, no formation of alveolar dust particles is possible.

Chemical name	Exposure route	Target Organs
Silica, cristobalite	Inhalation	lung
14464-46-1		

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**

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## 12.1. Toxicity

Ecotoxicity: Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
2-Butoxyethanol 111-76-2	LC50	Lepomis macrochirus	1490 mg/L	96 h	OECD 203
2-Bromo-2-nitro-1,3-propanedi ol 52-51-7	LC50	Lepomis macrochirus	11 mg/L	96 h	OECD 203
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	LC50		4.77 mg/L	96 h	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	LC50		0.122 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
2-Butoxyethanol 111-76-2	EC50	Daphnia magna	1550 mg/L	48 h	OECD 202
2-Bromo-2-nitro-1,3-propanedi ol 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	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	EC50		0.181 mg/L	48 h	
5-Chloro-2-methyl-3(2H)-isothi azolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	EC50	Daphnia magna	0.1 mg/L	48 h	OECD 202

Algae Toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
2-Butoxyethanol 111-76-2	EC50	Pseudokirchneriella subcapitata	> 900 mg/L	72 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
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	EC50		0.103 mg/L	72 h	
Zinc pyrithione 13463-41-7	EC50		0.003 mg/L	96 h	
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	EC50		0.150 mg/L	96 h	
5-Chloro-2-methyl-3(2H)-isothi	EC50	Pseudokirchneriella	0.048 mg/L	72 h	OECD 201

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Chemical name	Parameter	Species	Effective dose	Exposure time	Method
azolone, mixture with 2-methyl-3(2H)-isothiazolone		subcapitata			
55965-84-9					

Bacteria toxicity:

Chemical name	<b>Parameters</b>	Species	Effective dose	Exposure time	Method
2-Butoxyethanol 111-76-2	EC0	pseudomonas putida	> 700 mg/L	16 h	DIN 38412 part 8
2-Bromo-2-nitro-1,3-propanedi ol 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	
Zinc pyrithione 13463-41-7	EC50		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	
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
Titanium dioxide 13463-67-7	0 %		No		
2-Butoxyethanol 111-76-2	90.4 %	28 d	Yes	Aerobic biological treatment	DIN 301 B
2-Bromo-2-nitro-1,3-propa nediol 52-51-7	100 %	28 d	Yes		
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	> 60 %	28 d	Yes		OECD 301

## 12.3. Bioaccumulative potential

Bioaccumulation:

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Chemical name	Partition coefficient	Bioconcentration factor (BCF)
2-Butoxyethanol 111-76-2	0.81	3.2
2-Bromo-2-nitro-1,3-propanediol 52-51-7	0.38	3.16
3(2H)-Isothiazolone, 2-methyl- 2682-20-4		3.16
Zinc pyrithione 13463-41-7	1.12	1.4
Terbutryn 886-50-0	3.19	103
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	2.92	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	0.69	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
Titanium dioxide 13463-67-7	The substance is not PBT / vPvB
2-Butoxyethanol 111-76-2	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
Zinc pyrithione 13463-41-7	The substance is not PBT / vPvB
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	The substance is not PBT / vPvB
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	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	Group III Chemical	-
886-50-0		

## 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 in accordance with local regulations. Dispose of waste in accordance with

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)

## **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

## 14.4. Packing group

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

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Special Provisions: None

RID: Not regulated

Special Provisions: None

IMDG: Not regulated

Special Provisions: None

IATA: Not regulated

Special Provisions: None

### 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
Titanium dioxide		75.
13463-67-7		
2-Butoxyethanol		75.
111-76-2		
2-Bromo-2-nitro-1,3-propanediol		75.
52-51-7		
3(2H)-Isothiazolone, 2-methyl-		75.
2682-20-4		
Zinc pyrithione		75.
13463-41-7		
3(2H)-Isothiazolone, 2-octyl-		75.
26530-20-1		
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

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

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

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Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
3(2H)-Isothiazolone, 2-octyl-	8 - Wood preservatives
26530-20-1	
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with	2 - Disinfectants and algaecides not intended for direct
2-methyl-3(2H)-isothiazolone	application to humans or animals
55965-84-9	4 - Food and feed area disinfectant
	6 - Preservatives for products during storage
	11 - Preservatives for liquid-cooling and processing systems
	12 - Slimicides
	13 - Working or cutting fluid preservatives

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

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

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

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

volatile organic compounds (VOC) content:

acc. reg. 2010/75/EG: 2 % acc. reg. 2004/42/EG (Decopaint): 30 g/L

### National regulations:

### Denmark:

Chemical name	Denmark - MAL
Titanium dioxide	0 m3/10 g substance MAL factor
13463-67-7	>=0.1 - 5 % by weight [3]
	>=5 % by weight [6]
	>0 % by weight [1]
Silica, cristobalite	0 m3/10 g substance MAL factor
14464-46-1	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-Butoxyethanol	25 m3/10 g substance MAL factor
111-76-2	>=10.0 % by weight [3]
2-Bromo-2-nitro-1,3-propanediol	50000 m3/10 g substance MAL factor
52-51-7	2500 m3/10 g substance MAL factor
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
13463-41-7	>=1 % by weight [3]

### Germany:

Water hazard class (WGK): obviously hazardous to water (WGK 2) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
Titanium dioxide	nwg	1345

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13463-67-7		
Silica, cristobalite 14464-46-1	nwg	849
2-Butoxyethanol 111-76-2	1	47
2-Bromo-2-nitro-1,3-propanediol 52-51-7	2	5204
3(2H)-Isothiazolone, 2-methyl- 2682-20-4	3	2960
Zinc pyrithione 13463-41-7	3	7636
Terbutryn 886-50-0	2	612
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	3	2962
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): 25 - 30% org. substances (Ziffer 5.2.5): < 5% org. subst. dust (digit 5.2.5): < 5%

### France:

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

Chemical name	French RG number
Silica, cristobalite 14464-46-1	RG 25
2-Butoxyethanol 111-76-2	RG 84

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

RG 84 - Occupational conditions caused by liquid organic solvents

#### Netherlands:

Chemical name	Silica, cristobalite
Netherlands - List of Carcinogens	Present
	X

Chemical name	Zinc pyrithione
Netherlands - List of Reproductive Toxins	Development Category 1B
ZZS list: SVHC	x ()

Water contaminating class (Netherlands): B (4)

Austria:

Flammable Liquids Regulations, VbF: Not regulated

Switzerland:

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VOC content:: acc. VOCV CH 814.018, att. 1: 2 %

#### International Inventories:

**TSCA** Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply Does not comply **ENCS 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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H330 - Fatal if inhaled

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H360D - May damage the unborn child

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

Legend:

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



Revision date: 24-Feb-2022 Revision Number: 1

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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

\* 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

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Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	On basis of test data
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

Revision date: 20-Oct-2021

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

#### Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**