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**Revision Number: 1** 

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

#### 1.1. Product identifier

Product Name: Conti Diffulan Base C farblos

Article number: 036300360000

## 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

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### **Hazard statements:**

EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one, 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone May produce an allergic reaction.

#### 2.3. Other hazards

No information available.

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances

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Not applicable

## 3.2 Mixtures

Chemical name	CAS No	EC No	REACH registration number	Classification according to	Weight-%
				Regulation (EC) No. 1272/2008 [CLP]	
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)	0.01 - < 0.05
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)	0.01 - < 0.05
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)	0.0005 - < 0.001

Chemical name	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
1,2-Benzisothiazol-3(2H)-one	Skin Sens. 1 :: C>=0.05%		
2634-33-5			
Zinc pyrithione		100	10
13463-41-7			
5-Chloro-2-methyl-3(2H)-isothi	Skin Corr. 1C :: C>=0.6%	100	100
azolone, mixture with	Skin Irrit. 2 :: 0.06%<=C<0.6%		
2-methyl-3(2H)-isothiazolone	Eye Dam. 1 :: C>=0.6%		
55965-84-9	Eye Irrit. 2 :: 0.06%<=C<0.6%		
	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	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
			hour - dust/mist -	hour - vapor - mg/L	hour - gas - ppm
			mg/L		
1,2-Benzisothiazol-3(2H)-one	490	No data	0.0501	0.501	No data available
2634-33-5		available			
Zinc pyrithione	177	100	0.0501	3	No data available
13463-41-7					

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5-Chloro-2-methyl-3(2H)-isothi	457	660	0.0501	0.501	No data available
azolone, mixture with					
2-methyl-3(2H)-isothiazolone					
55965-84-9					

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

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

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 skin with soap and water. 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: No information available.

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

Note to physicians: 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:

No information available.

## 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.

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## **SECTION 6: Accidental release measures**

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

Personal precautions: Ensure adequate ventilation.

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



Advice on safe handling: Ensure adequate ventilation.

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 container tightly closed in a dry 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	Austria	Switzerland	Poland	Norway	Ireland	Russia
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Chemical name	Austria	Switzerland	Poland	Norway	Ireland	Russia
5-Chloro-2-methyl-3(2H)-i	TWA: 0.05 mg/m <sup>3</sup>					
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	short term, local	short term, systemic	long term, local	long term, systemic
1,2-Benzisothiazol-3(2H)-one				6.81 mg/m <sup>3</sup>
5-Chloro-2-methyl-3(2H)-isoth iazolone, mixture with	0.04 mg/m <sup>3</sup>		0.02 mg/m³	0.02 mg/m³
2-methyl-3(2H)-isothiazolone				

Worker - dermal:

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

Consumer - inhalative:

Chemical name	short term, local	short term, systemic	long term, local	long term, systemic
1,2-Benzisothiazol-3(2H)-one				1.2 mg/m³
5-Chloro-2-methyl-3(2H)-isoth iazolone, mixture with	0.04 mg/m³		0.02 mg/m³	
2-methyl-3(2H)-isothiazolone				

Consumer - dermal:

Chemical name	short term, local	short term, systemic	long term, local	long term, systemic
1,2-Benzisothiazol-3(2H)-one				345 mg/kg bw/day

consumer - oral:

Chemical name	short term, local	short term, systemic	long term, local	long term, systemic
5-Chloro-2-methyl-3(2H)-isoth		0.11 mg/kg bw/day		0.09 mg/kg bw/day
iazolone, mixture with				
2-methyl-3(2H)-isothiazolone				

Predicted No Effect Concentration (PNEC):

component information:

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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

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, mixture with 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: No special protective equipment required.

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

Skin and body protection: No special protective equipment required.

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

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 colorless

**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 None known

Autoignition temperature None known

Lower explosive limit not relevant

Upper explosion limit not relevant

Vapor pressure Not established

**Density** ~ 1.037 g/cm<sup>3</sup> 20 °C

Water solubility Miscible

**pH** 8 - 9 20 °C

pH (as aqueous solution)

Not established

Partition coefficient Not established

Kinematic viscosity

None known

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 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.

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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: The product has not been tested

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: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms: No information available.

Numerical measures of toxicity:

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

ATEmix (inhalation-dust/mist) 257.1429 mg/l

Component Information:

Chemical name	Parameter	Species	effektive Dosis	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	Oral LD50	Rat	490 mg/kg	
Zinc pyrithione 13463-41-7	Oral LD50	Rat	177 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
Zinc pyrithione 13463-41-7	Dermal LD50	Rabbit	100 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
Zinc pyrithione 13463-41-7	Inhalation LC50	Rat	0.05 - 0.5 mg/L 140 mg/m <sup>3</sup>	4 h	
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 <sup>3</sup>	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: No information available. Germ cell mutagenicity: No information available. Carcinogenicity: No information available. Reproductive toxicity: No information available. No information available. STOT - single exposure: No information available. STOT - repeated exposure:

### 11.2. Information on other hazards

Aspiration hazard:

No information available.

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#### 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: The environmental impact of this product has not been fully investigated.

fish toxicity:

Chemical name	Parameter	Species	Effective dose	Exposure time	Method
1,2-Benzisothiazol-3(2H)-one 2634-33-5	LC50		2.15 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
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50		2.9 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
1,2-Benzisothiazol-3(2H)-one 2634-33-5	EC50		0.11 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	<b>Parameters</b>	Species	Effective dose	Exposure time	Method
1,2-Benzisothiazol-3(2H)-one	EC50		12.8 mg/L	3 h	
2634-33-5					
5-Chloro-2-methyl-3(2H)-isothi	EC50	activated sludge	7.92 mg/L	3 h	
azolone, mixture with					
2-methyl-3(2H)-isothiazolone					

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Chemical name	<b>Parameters</b>	Species	Effective dose	Exposure time	Method
55965-84-9					

## 12.2. Persistence and degradability

Persistence and degradability:

Chemical name	degradation rate	test duration	Rapidly biodegradable	Remarks	Method
1,2-Benzisothiazol-3(2H)- one 2634-33-5	100 %	0.04 d	Yes		OECD 307
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)
1,2-Benzisothiazol-3(2H)-one 2634-33-5		6.62
Zinc pyrithione 13463-41-7	1.12	1.4
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9	< 0.71	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
1,2-Benzisothiazol-3(2H)-one	The substance is not PBT / vPvB
2634-33-5	
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.

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#### 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)

## **SECTION 14: Transport information**

#### 14.1. UN number

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

#### 14.6. Special precautions for user

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ADR: Not regulated

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
1,2-Benzisothiazol-3(2H)-one 2634-33-5		75.
Zinc pyrithione 13463-41-7		75.
5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone 55965-84-9		3

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: 3.1 % acc. reg. 2004/42/EG (Decopaint): 31 g/L

648/2004/ EU (DetVo):

#### National regulations:

Denmark:

Chemical name	Denmark - MAL	
1,2-Benzisothiazol-3(2H)-one	0 m3/10 g substance MAL factor	
2634-33-5	>=1.0 % by weight [3]	

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Zinc pyrithione	0 m3/10 g substance MAL factor
13463-41-7	>=1 % by weight [3]

#### Germany:

Water hazard class (WGK): slightly hazardous to water (WGK 1) - Classification according to AwSV

Chemical name	WGK Classification (AwSV)	ID number
1,2-Benzisothiazol-3(2H)-one 2634-33-5	2	5141
Zinc pyrithione 13463-41-7	3	7636
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): < 5% org. substances (Ziffer 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
1,2-Benzisothiazol-3(2H)-one	RG 65
2634-33-5	

RG 65 - Allergic eczema

#### 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:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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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

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

H331 - Toxic if inhaled

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

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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	
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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) (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

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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: 22-Jul-2021

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**