

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Düfa Holzschön Seidenmattlack

Revision date: 27.07.2023

Product code: 10075062050000

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**Water dilutable enamel paint on an acrylic resin base
Relevant identified uses**Uses advised against**

None, use in accordance with instructions.

1.3. Details of the supplier of the safety data sheet

Company name:	Meffert AG Farbwerke	
Street:	Sandweg 15	
Place:	D-55543 Bad Kreuznach	
Telephone:	+49 671 870-0	Telefax: +49 671 870-397
E-mail:	info@meffert.com	
Contact person:	Regulatory Affairs Department	Telephone: +49 671 870-303
E-mail:	SDB@meffert.com	
Internet:	www.meffert.com	

1.4. Emergency telephone number:

00 800 63333782 Mon.–Fri. 7.30 a.m. – 8.00 p.m., Sat. 9.00 a.m. – 8.00 p.m.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**1,2-benzisothiazol-3(2H)-one
2-methyl-2H-isothiazol-3-one
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)**Signal word:** Warning**Pictograms:****Hazard statements**

H317 May cause an allergic skin reaction.

Precautionary statements

P102	Keep out of reach of children.
P280	Wear protective gloves.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.

Special labelling of certain mixtures

EUH211:Warning! Hazardous respirable droplets may be formed when sprayed. Do not

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breathe spray or mist.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Toxicological information: The substance/mixture does not contain any components that are classified as hazardous according to

REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

Environmental information: The substance/mixture does not contain any components that are classified as hazardous according to

REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
13463-67-7	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]			20 - < 25 %
	236-675-5		01-2119489379-17	
	Carc. 2; H351			
77-99-6	1,1,1-trimethylolpropane, 1,1,1-Tris(hydroxymethyl)propane			0.1 - < 1 %
	201-074-9		01-2119486799-10	
	Repr. 2; H361fd			
2634-33-5	1,2-benzisothiazol-3(2H)-one			< 0.1 %
	220-120-9	613-088-00-6	01-2120761540-60	
	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H330 H302 H315 H318 H317 H400 H411			
102-79-4	2,2'-butyliminodiethanol			< 0.1 %
	203-055-0		01-2120124239-60	
	Eye Dam. 1; H318			
2682-20-4	2-methyl-2H-isothiazol-3-one			< 0.1 %
	220-239-6		01-2120764690-50	
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410			
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			< 0.1 %
	-	613-167-00-5	01-2120764691-48	
	Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071			
13463-41-7	Zinc pyrithione			< 0.1 %
	236-671-3		01-2119511196-46	
	Repr. 1B, Acute Tox. 2, Acute Tox. 3, Eye Dam. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H360D H330 H301 H318 H372 H400 H410			

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
13463-67-7	236-675-5	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]	20 - < 25 %
		inhalation: LC50 = $>6,82 \text{ mg/l}$ (dusts or mists); dermal: LD50 = $>2000 \text{ mg/kg}$; oral: LD50 = $>5000 \text{ mg/kg}$ Carc. 2; H351: $\geq 100 - 100$	
77-99-6	201-074-9	1,1,1-trimethylolpropane, 1,1,1-Tris(hydroxymethyl)propane	0.1 - < 1 %
		inhalation: LC50 = 850 mg/l (vapours); dermal: LD50 = 10000 mg/kg ; oral: LD50 = 14700 mg/kg	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one	< 0.1 %
		inhalation: ATE = $0,5 \text{ mg/l}$ (vapours); inhalation: ATE = $0,05 \text{ mg/l}$ (dusts or mists); dermal: LD50 = $>2000 \text{ mg/kg}$; oral: LD50 = 531 mg/kg Skin Sens. 1; H317: $\geq 0,05 - 100$ Aquatic Acute 1; H400: M=1	
102-79-4	203-055-0	2,2'-butyliminodiethanol	< 0.1 %
		dermal: LD50 = $>2000 \text{ mg/kg}$; oral: LD50 = $>4800 \text{ mg/kg}$	
2682-20-4	220-239-6	2-methyl-2H-isothiazol-3-one	< 0.1 %
		inhalation: ATE = $0,5 \text{ mg/l}$ (vapours); inhalation: ATE = $0,05 \text{ mg/l}$ (dusts or mists); dermal: LD50 = $>2000 \text{ mg/kg}$; oral: LD50 = 285 mg/kg Skin Sens. 1A; H317: $\geq 0,0015 - 100$ Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
55965-84-9	-	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	< 0.1 %
		inhalation: ATE = $0,5 \text{ mg/l}$ (vapours); inhalation: LC50 = $0,33 \text{ mg/l}$ (dusts or mists); dermal: LD50 = $>75 \text{ mg/kg}$; oral: LD50 = $49,6-75 \text{ mg/kg}$ Skin Corr. 1C; H314: $\geq 0,6 - 100$ Skin Irrit. 2; H315: $\geq 0,06 - < 0,6$ Eye Dam. 1; H318: $\geq 0,6 - 100$ Eye Irrit. 2; H319: $\geq 0,06 - < 0,6$ Skin Sens. 1A; H317: $\geq 0,0015 - 100$ Aquatic Acute 1; H400: M=100 Aquatic Chronic 1; H410: M=100	
13463-41-7	236-671-3	Zinc pyrithione	< 0.1 %
		inhalation: ATE = $0,5 \text{ mg/l}$ (vapours); inhalation: ATE = $0,05 \text{ mg/l}$ (dusts or mists); oral: LD50 = 269 mg/kg Aquatic Acute 1; H400: M=1000 Aquatic Chronic 1; H410: M=10	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse. If unconscious but breathing normally, place in recovery position and seek medical advice. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. When in doubt or if symptoms are observed, get medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Wash immediately with: Water and soap. Do not wash with: Solvents/Thinner In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Allergic reactions

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureIn case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂).**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

With water, a slippery film is created. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up**Other information**

Take up mechanically, placing in appropriate containers for disposal.

Methods and material for containment and cleaning up: Sand Sawdust Universal binder

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaust at critical locations. Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. Personal protection equipment: see section 8

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Provide fresh air. When using do not eat, drink or smoke. Wash hands before breaks and after work. Make available sufficient washing facilities

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Always close containers tightly after the removal of product. Ensure adequate ventilation of the storage area.

Further information on storage conditions

Keep/Store only in original container. Protect from direct sunlight. Avoid heat and frost.

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7.3. Specific end use(s)

Water dilutable enamel paint on an acrylic resin base

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
DNEL/DMEL values

CAS No	Name of agent		
DNEL type	Exposure route	Effect	Value
13463-67-7	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]		
Worker DNEL, long-term	inhalation	local	10
Consumer DNEL, long-term	oral	systemic	700
77-99-6	1,1,1-trimethylolpropane, 1,1,1-Tris(hydroxymethyl)propane		
Worker DNEL, long-term	inhalation	systemic	3,3 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,94 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,58 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,34 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,34 mg/kg bw/day
2634-33-5	1,2-benzisothiazol-3(2H)-one		
Worker DNEL, long-term	inhalation	systemic	6,8 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,966 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,2 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,345 mg/kg bw/day
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)		
Worker DNEL, long-term	inhalation	local	0,02 mg/m ³
Worker DNEL, acute	inhalation	local	0,04 mg/m ³
Consumer DNEL, long-term	inhalation	local	0,02 mg/m ³
Consumer DNEL, acute	inhalation	local	0,04 mg/m ³
Consumer DNEL, long-term	oral	systemic	0,11 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	0,09 mg/kg bw/day

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PNEC values

CAS No	Name of agent	
Environmental compartment		Value
13463-67-7	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm]	
Freshwater		0,127 mg/l
Freshwater (intermittent releases)		0,61 mg/l
Marine water		1 mg/l
Freshwater sediment		1000 mg/kg
Marine sediment		100 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		100 mg/kg
77-99-6	1,1,1-trimethylolpropane, 1,1,1-Tris(hydroxymethyl)propane	
2634-33-5	1,2-benzisothiazol-3(2H)-one	
Freshwater		0,00403 mg/l
Freshwater (intermittent releases)		0,0011 mg/l
Marine water		0,000403 mg/l
Marine water (intermittent releases)		0,0011 mg/l
Freshwater sediment		0,049 mg/l
Marine sediment		0,00499 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,03 mg/l
Soil		3 mg/kg
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
Freshwater		0,0039 mg/l
Freshwater (intermittent releases)		0,0039 mg/l
Marine water		0,0039 mg/l
Marine water (intermittent releases)		0,0039 mg/l
Freshwater sediment		0,027 mg/kg
Marine sediment		0,027 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,23 mg/l
Soil		0,01 mg/kg

8.2. Exposure controls
Appropriate engineering controls

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment
Eye/face protection

Wear eye/face protection.

Wear protective glasses during application with a spray gun.- EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Replace when worn. See information supplied by the manufacturer. . Comply with ruling 195 of Professional Association on "Usage of Protective Gloves"

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Suitable material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber) neoprene. Wear cotton underneath if possible.

Breakthrough time: >480 min. Thickness of the glove material: >0,5 mm

Unsuitable material: leather, fabric.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Light protective clothing. Chemical resistant safety shoes- EN ISO 20345

Respiratory protection

In case of spray processing: Filtering device (full mask or mouthpiece) with filter: A2/P2

For grinding work: Filtering device (full mask or mouthpiece) with filter: P2

The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace. EN 137

Environmental exposure controls

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	see color on the packaging label
Odour:	sweetish
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	120 °C
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	na
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
pH-Value:	8,5 - 9,0
Viscosity / kinematic:	na
Water solubility:	completely miscible
Dissolution rate:	not applicable
Partition coefficient n-octanol/water:	Not applicable for mixtures
Vapour pressure:	not determined
Density (at 20 °C):	1,27 g/cm ³
Particle characteristics:	Liquid, not applicable

9.2. Other information**Information with regard to physical hazard classes**

Sustaining combustion:	No data available
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable

Other safety characteristics

Solvent separation test:	not applicable
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Flow time:	na

Further Information

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none

SECTION 10: Stability and reactivity**10.1. Reactivity**

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

10.4. Conditions to avoid

Avoid heat and frost.

10.5. Incompatible materials

Materials that react with water. Alkali (lye) Acid, Oxidising agent..

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Nitrogen oxides (NOx), Carbon dioxide (CO2). Under certain fire conditions, traces of other toxic products can not be excluded.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
13463-67-7	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]				
	oral	LD50 >5000 mg/kg	Rat		OECD 425
	dermal	LD50 >2000 mg/kg	Rat		
	inhalation (4 h) dust/mist	LC50 >6,82 mg/l			
77-99-6	1,1,1-trimethylolpropane, 1,1,1-Tris(hydroxymethyl)propane				
	oral	LD50 14700 mg/kg	Rabbit		
	dermal	LD50 10000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 850 mg/l	Rat		
2634-33-5	1,2-benzisothiazol-3(2H)-one				
	oral	LD50 531 mg/kg	Rat		OECD 423
	dermal	LD50 >2000 mg/kg	Rat		OECD 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			
102-79-4	2,2'-butyliminodiethanol				
	oral	LD50 >4800 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
2682-20-4	2-methyl-2H-isothiazol-3-one				
	oral	LD50 285 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)				
	oral	LD50 49,6-75 mg/kg	Rat		
	dermal	LD50 >75 mg/kg	Rabbit		
	inhalation vapour	ATE 0,5 mg/l			
	inhalation (4 h) dust/mist	LC50 0,33 mg/l	Rat		
13463-41-7	Zinc pyrithione				
	oral	LD50 269 mg/kg	Rat		OECD 401
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			

Irritation and corrosivity

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

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Sensitising effects

May cause an allergic skin reaction. (1,2-benzisothiazol-3(2H)-one; 2-methyl-2H-isothiazol-3-one; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))

Carcinogenic/mutagenic/toxic effects for reproduction

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

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]:

Test data from the manufacturer of the raw materials containing TiO₂ according to EN 15051-2 show that the raw materials contain < 1% particles with an aerodynamic diameter of $\leq 10 \mu\text{m}$ and therefore do not meet the classification criteria. The respirable and thoracic dust content of raw materials containing TiO₂ falls into the very low or low dust category according to the EN 15051-2 method.

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

11.2. Information on other hazards**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information**12.1. Toxicity**

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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
13463-67-7	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm]					
	Acute fish toxicity	LC50 >10000 mg/l	96 h	Cyprinus carpio (Common Carp)		OECD 203
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (Big water flea)		
77-99-6	1,1,1-trimethylolpropane, 1,1,1-Tris(hydroxymethyl)propane					
	Acute fish toxicity	LC50 1000-10000 mg/l	96 h	Alburnus alburnus (alburnus)		
	Acute algae toxicity	ErC50 1000-10000 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 13000 mg/l	48 h	Daphnia magna (Big water flea)		
	Algae toxicity	NOEC 1000 mg/l	3 d	not determined		
	Crustacea toxicity	NOEC 1000 mg/l	21 d	not determined		
	Acute bacteria toxicity	(EC50 1000 mg/l)	3 h	not determined		
2634-33-5	1,2-benzisothiazol-3(2H)-one					
	Acute fish toxicity	LC50 2,15 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 203
	Acute algae toxicity	ErC50 0,11 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 2,9 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Fish toxicity	NOEC 0,21 mg/l	28 d	Oncorhynchus mykiss (Rainbow trout)		OECD 215
	Algae toxicity	NOEC 0,0403 mg/l	3 d	Pseudokirchneriella subcapitata		OECD 201
	Acute bacteria toxicity	(EC50 12,8 mg/l)	3 h	Activated sludge		OECD 209
102-79-4	2,2'-butyliminodiethanol					
	Acute fish toxicity	LC50 >316 mg/l	96 h	Carassius auratus (goldfish)		
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna (Big water flea)		
2682-20-4	2-methyl-2H-isothiazol-3-one					
	Acute fish toxicity	LC50 >0,15 mg/l	96 h	Danio rerio (zebrafish)		
	Acute algae toxicity	ErC50 0,157 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 0,87 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(EC50 34,6 mg/l)	3 h	Activated sludge		
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)					

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	Acute fish toxicity	LC50 mg/l	0,19	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 202
	Acute algae toxicity	ErC50 mg/l	0,027	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 mg/l	0,16	48 h	Daphnia magna (Big water flea)		OECD 203
	Fish toxicity	NOEC mg/l	0,05	14 d	Oncorhynchus mykiss (Rainbow trout)		
	Algae toxicity	NOEC mg/l	0,0012	3 d	Pseudokirchneriella subcapitata		OECD 201
	Crustacea toxicity	NOEC	0,1 mg/l	21 d	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(EC50 mg/l)	7,92	3 h	Activated sludge		OECD 209
13463-41-7	Zinc pyrrhione						
	Acute fish toxicity	LC50 mg/l	0,0104	96 h	Danio rerio (zebrafish)		OECD 203
	Acute algae toxicity	ErC50 mg/l	0,051	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 mg/l	0,051	48 h	Daphnia pulex (water flea)		OECD 202
	Fish toxicity	NOEC mg/l	0,00125		Danio rerio (zebrafish)		OECD 215
	Algae toxicity	NOEC mg/l	0,0149	3 d	Pseudokirchneriella subcapitata		OECD 201
	Crustacea toxicity	NOEC mg/l	0,00213	21 d	Daphnia pulex (water flea)		OECD 211
	Acute bacteria toxicity	(EC50	2,8 mg/l)	3 h	Activated sludge		OECD 209

12.2. Persistence and degradability

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

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2634-33-5	1,2-benzisothiazol-3(2H)-one			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	70-80%	28	
102-79-4	2,2'-butyliminodiethanol			
	Biodegradation	98%	22	
	Readily biodegradable (according to OECD criteria).			
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
	OECD 301D/ EEC 92/69/V, C.4-E	>60%		
	Readily biodegradable (according to OECD criteria).			
	OECD 302B/ ISO 9888/ EEC 92/69/V, C.9	100%		
	OECD 303/ EEC 92/69/V, C10	>80%		
13463-41-7	Zinc pyrrhione			
	OECD 303/ EEC 92/69/V, C10	>85%		
	Biodegradable.			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	39%	28	
	Biodegradable.			

12.3. Bioaccumulative potential

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

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2634-33-5	1,2-benzisothiazol-3(2H)-one	0,7
102-79-4	2,2'-butyliminodiethanol	0,58
2682-20-4	2-methyl-2H-isothiazol-3-one	-0,32
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	<3
13463-41-7	Zinc pyrithione	1,21

BCF

CAS No	Chemical name	BCF	Species	Source
13463-67-7	Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm]	19-352	Oncorhynchus mykiss (Rainbow trout)	
2634-33-5	1,2-benzisothiazol-3(2H)-one	189	Danio rerio (zebrafish)	OECD 305
2682-20-4	2-methyl-2H-isothiazol-3-one	3,16	No data available	
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	<100		

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains.

Dispose according to legislation.

Dried out material residue can be disposed of with household waste. For liquid material residue, contact your local waste collection provider.

List of Wastes Code - residues/unused products

080112 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish other than those mentioned in 08 01 11

List of Wastes Code - contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Completely emptied packages can be recycled.

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SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30, Entry 75

2010/75/EU (VOC):	0,041 % (0,522 g/l)
2004/42/EC (VOC):	0,021 % (0,266 g/l)
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)

Additional information

This product is a "treated article without a primary biocidal function" (Article 58 in conjunction with Article 3(1)(a)).

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 1 - slightly hazardous to water

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15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,9,11,15.

Abbreviations and acronyms

EWG - Europäische Wirtschaftsgemeinschaft; EG - Europäische Gemeinschaft; CLP- Regulation on Classification, Labelling and Packaging of Substances and Mixtures; TRGS - Technische Regeln für Gefahrstoffe; PBT - persistenter bioakkumulierbarer und toxischer Stoff; vPvB - very persistent very bioaccumulative; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; VOC - Flüchtige organische Verbindung WGK - Wassergefährdungsklasse

Key literature references and sources for data

Sources: <http://www.gisbau.de> <http://www.baua.de>

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H351	Suspected of causing cancer if inhaled.
H360D	May damage the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging 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.
EUH071	Corrosive to the respiratory tract.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Coatings and paints, thinners, paint removers	PW, C	19	9a	10, 11	10a, 11a	-	-	Sprüh/Rol/St

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)