

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**düfa megafresh**

Revision date: 06.03.2025

Product code: 10071015000000

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

düfa megafresh

UFI: NJUC-VW85-Y7GX-WKV0

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

solvent-based alkyd enamel

Relevant identified uses see section 16.

**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.

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**Special labelling of certain mixtures**

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

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 <= 10 µm]	10 - < 15 %
	236-675-5	01-2119489379-17
	Carc. 2; H351	
14807-96-6	talc, hydrated magnesium silicate (MG3H2(SIO3)4)	5 - < 10 %
	238-877-9	01-2120140278-58
2634-33-5	1,2-benzisothiazol-3(2H)-one	< 0.05 %
	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	
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)	< 0.0015 %
		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	

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 <= 10 µm]	10 - < 15 %
		inhalation: LC50 = >6,82 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg Carc. 2; H351: >= 100 - 100	
14807-96-6	238-877-9	talco, hydrated magnesium silicate (MG3H2(SiO3)4)	5 - < 10 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one	< 0.05 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 530 mg/kg Skin Sens. 1; H317: >= 0,05 - 100 Aquatic Acute 1; H400: M=1	
2682-20-4	220-239-6	2-methyl-2H-isothiazol-3-one	< 0.1 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = 285 mg/kg Skin Sens. 1A; H317: >= 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)	< 0.0015 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,33 mg/l (dusts or mists); dermal: LD50 = >75 mg/kg; oral: LD50 = 49,6-75 mg/kg Skin Corr. 1C; H314: >= 0,6 - 100 Skin Irrit. 2; H315: >= 0,06 - < 0,6 Eye Dam. 1; H318: >= 0,6 - 100 Eye Irrit. 2; H319: >= 0,06 - < 0,6 Skin Sens. 1A; H317: >= 0,0015 - 100 Aquatic Acute 1; H400: M=100 Aquatic Chronic 1; H410: M=100	

**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**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Call a doctor.

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

According to reports aliphatics only irritate the skin and mucous membranes slightly, having a drying, anaesthetic effect. Pneumonia is possible in the case of direct effect on the lungs (i.e. through inhalation). Observe risk of aspiration if vomiting occurs.

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

Treat symptomatically.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>), Water mist, Extinguishing powder, alcohol resistant foam.**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>)**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**

Provide adequate ventilation. Remove all sources of ignition.

**For non-emergency personnel**

Use personal protection equipment. Personal protection equipment: see section 8

First aider: Pay attention to self-protection!

**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**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

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

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**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. Do not inhale sanding dust particles. Use appropriate respiratory protection.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Take precautionary measures against static discharges.

**Advice on general occupational hygiene**

Provide adequate ventilation as well as local exhaust at critical locations. Avoid contact with eyes and skin. When using do not eat, drink or smoke.

**Further information on handling**

When using do not eat, drink, smoke, sniff. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Use protective skin cream before handling the product. Make available sufficient

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washing facilities

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

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

##### **Further information on storage conditions**

Protect from sunlight. Avoid heat and frost.

#### **7.3. Specific end use(s)**

Alkyd resin varnishes, aromatics removed

Observe technical data sheet.

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

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**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 <= 10 µm]		
Worker DNEL, long-term	inhalation	local	10 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	700 mg/kg bw/day
14807-96-6	talc, hydrated magnesium silicate (MG3H2(SIO3)4)		
Worker DNEL, long-term	inhalation	systemic	2,16 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	systemic	2,16 mg/m <sup>3</sup>
Worker DNEL, long-term	inhalation	local	3,6 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	3,6 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	43,2 mg/kg bw/day
Worker DNEL, long-term	dermal	local	4,54 mg/cm <sup>2</sup>
Consumer DNEL, long-term	inhalation	systemic	1,08 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	1,08 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	1,18 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	1,18 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	21,6 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	2,27 mg/cm <sup>2</sup>
Consumer DNEL, long-term	oral	systemic	160 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	160 mg/kg bw/day
2634-33-5	1,2-benzisothiazol-3(2H)-one		
Worker DNEL, long-term	inhalation	systemic	6,8 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	0,966 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	1,2 mg/m <sup>3</sup>
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 <sup>3</sup>
Worker DNEL, acute	inhalation	local	0,04 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	0,02 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	0,04 mg/m <sup>3</sup>
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	Value
Environmental compartment		
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
14807-96-6	talc, hydrated magnesium silicate (MG3H2(SIO3)4)	
Freshwater		597,97 mg/l
Freshwater (intermittent releases)		597,97 mg/l
Marine water		141,26 mg/l
Marine water (intermittent releases)		141,26 mg/l
Freshwater sediment		31,33 mg/kg
Marine sediment		3,13 mg/kg
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. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

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

Comply with ruling 192 Professional Association on "Usage of Protection for Eyes and Face".  
Use tightly fitting safety glasses.- EN ISO 16321

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**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"

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

Chemical resistant safety shoes- EN ISO 20345, Wear long-sleeved protective clothing. DIN EN ISO 13688:2013

**Respiratory protection**

Comply with ruling 190 of Professional Association on "Usage of Protective Breathing Apparatus". In case of inadequate ventilation wear respiratory protection. In case of spray processing: Filtering device (full mask or mouthpiece) with filter: A2/P2

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. 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:	Solvents/Thinner	
Odour threshold:	not determined	
		<b>Test method</b>
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	ca. 120 °C	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	na	ASTM D 6450
Auto-ignition temperature:	not determined	
pH-Value:	8,0 - 8,5	
Viscosity / kinematic: (at 20 °C)	na	
Water solubility:	insoluble	
Dissolution rate:	not applicable	
Partition coefficient n-octanol/water:	Not applicable for mixtures	
Vapour pressure: (at 20 °C)	>0,1 hPa	
Density (at 20 °C):	1,42 g/cm³	
Particle characteristics:	liquid- not applicable	

**9.2. Other information**



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**Other safety characteristics**

Solvent separation test:	<3%
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Flow time: (at 20 °C)	na 4 DIN EN ISO 2431

**Further Information**

none

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

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

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

**10.3. Possibility of hazardous reactions**

Vapours can form explosive mixtures with air.

**10.4. Conditions to avoid**

Avoid heat and frost. Do not dry up the product.

**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>). 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) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 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			
14807-96-6	talc, hydrated magnesium silicate (MG3H2(SIO3)4)				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
2634-33-5	1,2-benzisothiazol-3(2H)-one				
	oral	LD50 530 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			
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		

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**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**

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

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

Reproductive toxicity: 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 TiO<sub>2</sub> 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 TiO<sub>2</sub> 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.

**Practical experience**

Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

**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)		
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 3,27 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
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)					
	Acute fish toxicity	LC50 0,19 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 202
	Acute algae toxicity	ErC50 0,027 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 0,16 mg/l	48 h	Daphnia magna (Big water flea)		OECD 203
	Fish toxicity	NOEC 0,05 mg/l	14 d	Oncorhynchus mykiss (Rainbow trout)		
	Algae toxicity	NOEC 0,0012 mg/l	3 d	Pseudokirchneriella subcapitata		OECD 201
	Crustacea toxicity	NOEC 0,1 mg/l	21 d	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	EC50 7,92 mg/l ( )	3 h	Activated sludge		OECD 209

**12.2. Persistence and degradability**

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

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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	
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%	28	
	Readily biodegradable (according to OECD criteria).				
		OECD 302B/ ISO 9888/ EEC 92/69/V, C.9	100%	28	
		OECD 303/ EEC 92/69/V, C10	>80%	28	

**12.3. Bioaccumulative potential**

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

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
2634-33-5	1,2-benzisothiazol-3(2H)-one	0,7
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

**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]	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**

There are no data available on the mixture itself.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

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**

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080111 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 containing organic solvents or other hazardous substances; hazardous waste

**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. Completely emptied packages can be recycled.

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

**14.1. UN number or ID number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3  
Classification code: F1  
Special Provisions: 163 367 650  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 30  
Tunnel restriction code: D/E

**Other applicable information (land transport)**

No good of class 3 according to ADR/RID chapter 2.2.3.1.5.. Viscous, flammable liquid in containers <450 L.

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3  
Classification code: F1  
Special Provisions: 163 367 650  
Limited quantity: 5 L  
Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1263  
**14.2. UN proper shipping name:** Paint  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
Hazard label: 3  
Special Provisions: 163, 223, 367, 955  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-E, S-E

**Other applicable information (marine transport)**

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code. No dangerous good in container <450 L.

**Air transport (ICAO-TI/IATA-DGR)**

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<b>14.1. UN number or ID number:</b>	UN 1263
<b>14.2. UN proper shipping name:</b>	Paint
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3
Special Provisions:	A3 A72 A192
Limited quantity Passenger:	10 L
Passenger LQ:	Y344
Excepted quantity:	E1
IATA-packing instructions - Passenger:	355
IATA-max. quantity - Passenger:	60 L
IATA-packing instructions - Cargo:	366
IATA-max. quantity - Cargo:	220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**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 75

Directive 2010/75/EU on industrial emissions: 0,028 % (0,392 g/l)

Directive 2004/42/EC on VOC in paints and varnishes: 0,014 % (0,203 g/l)

**National regulatory information**

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

**Additional information**

This safety data sheet was prepared in accordance with Regulation (EU) 2020/878.

**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): 2,7,9.

**Abbreviations and acronyms**

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Skin Sens: Skin sensitisation

Carc: Carcinogenicity

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

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

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**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.
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.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

**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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*