

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 1 of 16

**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**dispersion paint  
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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 2 of 16

**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**

No information available.

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

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 3 of 16

**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	talc, hydrated magnesium silicate (MG3H2(SIO3)4)	5 - < 10 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
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 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)	< 0.1 %
		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**

If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Wash immediately with: Water and soap. Do not wash with: Solvents/Thinner

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. 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

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

Treat symptomatically. Treat symptomatically.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 4 of 16

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

Co-ordinate fire-fighting measures to the fire surroundings. 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 mixture**

Non-flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide

**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.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of fire: Wear self-contained breathing apparatus.

**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. 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. 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

Disposal: see section 13 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 exhaustion 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**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 5 of 16

Provide fresh air.

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

Keep container tightly closed. Always close containers tightly after the removal of product.

**Hints on joint storage**

Do not store together with: Acid alkali

**Further information on storage conditions**

Keep/Store only in original container. Protect from direct sunlight. Avoid cooling down below 10°C.

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

Water-based paints, solvent-free

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 6 of 16

**DNEL/DMEL values**

CAS No	Name of agent	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
77-99-6	1,1,1-trimethylolpropane, 1,1,1-Tris(hydroxymethyl)propane			
Worker DNEL, long-term		inhalation	systemic	3,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,94 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,58 mg/m <sup>3</sup>
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 <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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 7 of 16

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
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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 8 of 16

**Eye/face protection**

Wear eye/face protection. Wear eye/face protection.  
Wear protective glasses during application with a spray gun.

**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. 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. 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.

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. See information supplied by the manufacturer.

Suitable material: NBR (Nitrile rubber). Wear cotton underneath if possible.

Breakthrough time: >480 min.

Thickness of the glove material: >0,5 mm

**Skin protection**

Wear suitable protective clothing. Light protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. In case of spray processing: Filtering device (full mask or mouthpiece) with filter: A2/P2

**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
Odour threshold:	not determined
Melting point/freezing point:	ca. 0°C °C
Boiling point or initial boiling point and boiling range:	ca. 100 °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 (at 20 °C):	8,0 - 8,5
Viscosity / kinematic:	na
Water solubility:	completely miscible
Solubility in other solvents	
not determined	
Dissolution rate:	not applicable
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,42 g/cm <sup>3</sup>
Relative vapour density:	not determined
Particle characteristics:	Liquid, not applicable

**9.2. Other information**



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 9 of 16

**Information with regard to physical hazard classes**

Sustaining combustion:	Not sustaining combustion
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Oxidizing properties	
Not oxidising.	

**Other safety characteristics**

Evaporation rate:	not determined
Solvent separation test:	not applicable
Solvent content:	0,00 %, water: 43,78 %
Solid content:	not determined
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Flow time:	na

**Further Information**

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 (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</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.

**ATE<sub>mix</sub> calculated**

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 10 of 16

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		
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 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**

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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 11 of 16

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.

**Additional information on tests**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**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**

The product is not: Ecotoxic.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 12 of 16

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 10000 mg/l	96 h	Alburnus alburnus (alburnum)		
	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 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)		

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 13 of 16

	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

**12.2. Persistence and degradability**

The product has not been tested.

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**

The product has not been tested.

**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**

The product has not been tested.

**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.

The product has not been tested.

**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**

Avoid release to the environment. There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 14 of 16

**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**

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

**Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled. 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.

**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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 15 of 16

**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

2010/75/EU (VOC): 0,028 % (0,392 g/l)

2004/42/EC (VOC): 0,014 % (0,203 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)). The product contains biocides with preservative action to combat microbial decay (PT6).

**National regulatory information**

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

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**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): 2,13.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

**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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Düfa Megafresh**

Revision date: 18.10.2023

Product code: 10071015000000

Page 16 of 16

H351	Suspected of causing cancer if inhaled.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*