

according to Regulation (EC) No 1907/2006

düfa Dynamik

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

1.1. Product identifier

düfa Dynamik

UFI: SHSR-9UA7-CUSU-XUH3

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

Use of the substance/mixture

dispersion paint

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

number:

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

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]						
	236-675-5		01-2119489379-17				
	Carc. 2; H351	351					
14808-60-7	quartz (SIO2)			< 0.1 %			
	238-878-4		01-2120770509-45				
	STOT RE 1; H372						
2634-33-5	1,2-benzisothiazol-3(2H)-one						
	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						
	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)						
		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]	5 - < 10 %		
	inhalation: LC50 = >6,82 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg				
14808-60-7	238-878-4	quartz (SIO2)	< 0.1 %		
	STOT RE 1; H372: >= 100 - 100 STOT RE 2; H373: >= 90 - 100				
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one	< 0.05 %		
		E = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 g; oral: LD50 = 530 mg/kg			
2682-20-4	220-239-6	2-methyl-2H-isothiazol-3-one	< 0.1 %		
	= >2000 mg/kg Aquatic Acute	E = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 g; oral: LD50 = 285 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)	< 0.0015 %		
	LD50 = >75 m H315: >= 0,06 Skin Sens. 1A Aquatic Acute	E = 0,5 mg/l (vapours); inhalation: LC50 = 0,33 mg/l (dusts or mists); dermal: g/kg; oral: LD50 = 49,6-75 mg/kg Skin Corr. 1C; H314: >= 0,6 - 100 Skin Irrit. 2; - < 0,6 Eye Dam. 1; H318: >= 0,6 - 100 Eye Irrit. 2; H319: >= 0,06 - < 0,6; H317: >= 0,0015 - 100 1; H400: M=100 ic 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 plenty of water and soap. 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.



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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. In case of fire may be liberated: Carbon dioxide (CO2). 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

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.

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. 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.



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Advice on general occupational hygiene

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

DNEL/DMEL values

CAS No	Name of agent				
DNEL type	-	Exposure route	Effect	Value	
13463-67-7	3463-67-7 Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 μm]				
Worker DNEL,	long-term	inhalation	local	10 mg/m³	
Consumer DNE	EL, long-term	oral	systemic	700 mg/kg bw/day	
2634-33-5	1,2-benzisothiazol-3(2H)-one				
Worker DNEL,	long-term	inhalation	systemic	6,8 mg/m³	
Worker DNEL,	long-term	dermal	systemic	0,966 mg/kg bw/day	
Consumer DNE	EL, long-term	inhalation	systemic	1,2 mg/m³	
Consumer DNE	Consumer DNEL, long-term		systemic	0,345 mg/kg bw/day	
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and	l 2-methyl-2H-isothiazo	I-3-one (3:1)		
Worker DNEL,	long-term	inhalation	local	0,02 mg/m³	
Worker DNEL,	acute	inhalation	local	0,04 mg/m³	
Consumer DNE	EL, long-term	inhalation	local	0,02 mg/m³	
Consumer DNE	EL, acute	inhalation	local	0,04 mg/m³	
Consumer DNE	EL, long-term	oral	systemic	0,11 mg/kg bw/day	
Consumer DNE	EL, 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 aerodynam	nic diameter <= 10 μm]
Freshwater		0,127 mg/l
Freshwater (in	ermittent releases)	0,61 mg/l
Marine water		1 mg/l
Freshwater sed	diment	1000 mg/kg
Marine sedime	nt	100 mg/kg
Micro-organisn	ns in sewage treatment plants (STP)	100 mg/l
Soil		100 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one	
Freshwater		0,00403 mg/l
Freshwater (in	ermittent releases)	0,0011 mg/l
Marine water		0,000403 mg/l
Marine water (i	ntermittent releases)	0,0011 mg/l
Freshwater sed	diment	0,049 mg/l
Marine sedime	nt	0,00499 mg/kg
Micro-organisn	ns 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 (in	ermittent releases)	0,0039 mg/l
Marine water		0,0039 mg/l
Marine water (i	ntermittent releases)	0,0039 mg/l
Freshwater sed	diment	0,027 mg/kg
Marine sedime	nt	0,027 mg/kg
Micro-organisn	ns 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 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.



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

Breakthrough time:: >480 min.

Thickness of the glove material: >0,5 mm

Skin protection

Use of 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

ca. 100 °C

boiling range:

Lower explosion limits:not applicableUpper explosion limits:not applicableFlash point:naAuto-ignition temperature:not applicableDecomposition temperature:not applicablepH-Value (at 20 °C):8,5 - 9,2Viscosity / kinematic:naWater solubility:completely miscible

Solubility in other solvents not determined

Dissolution rate:

Partition coefficient n-octanol/water:

Vapour pressure:

Density (at 20 °C):

Relative vapour density:

Particle characteristics:

not applicable

not determined

1,56 g/cm³

not determined

Liquid, not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive.

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 Solid content: not determined

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Sublimation point:not applicableSoftening point:not applicablePour point:not applicableFlow 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 (Iye) 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 pov	vder form co	ontaining 1 %	or more of particles	with aerodynamic diam	eter <= 10 µm]		
	oral	LD50 mg/kg	>5000	Rat		OECD 425		
	dermal	LD50 mg/kg	>2000	Rat				
	inhalation (4 h) dust/mist	LC50 mg/l	>6,82					
2634-33-5	1,2-benzisothiazol-3(2H)-one						
	oral	LD50 mg/kg	530	Rat		OECD 423		
	dermal	LD50 mg/kg	>2000	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 mg/kg	285	Rat				
	dermal	LD50 mg/kg	>2000	Rat				
	inhalation vapour	ATE	0,5 mg/l					
	inhalation dust/mist	ATE	0,05 mg/l					
55965-84-9	reaction mass of 5-chlor	o-2-methyl-	2H-isothiazol-	3-one and 2-methyl-	2H-isothiazol-3-one (3:	1)		
	oral	LD50 mg/kg	49,6-75	Rat				
	dermal	LD50 mg/kg	>75	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

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

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter <= $10 \mu m$]: 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 <= $10 \mu m$ 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.



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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.



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CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
13463-67-7	Titanium dioxide; [in powo	ler form con	taining 1 % o	or more o	of particles with aerodyna	ımic diameter <= 10	μm]		
	Acute fish toxicity	LC50 mg/l	>10000	96 h	Cyprinus carpio (Common Carp)		OECD 203		
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Pseudokirchneriella subcapitata				
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna (Big water flea)				
2634-33-5	1,2-benzisothiazol-3(2H)-	one							
	Acute fish toxicity	LC50 mg/l	2,15	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 203		
	Acute algae toxicity	ErC50 mg/l	0,11	72 h	Pseudokirchneriella subcapitata		OECD 201		
	Acute crustacea toxicity	EC50 mg/l	3,27	48 h	Daphnia magna (Big water flea)		OECD 202		
	Fish toxicity	NOEC mg/l	0,21	28 d	Oncorhynchus mykiss (Rainbow trout)		OECD 215		
	Algae toxicity	NOEC mg/l	0,0403	3 d	Pseudokirchneriella subcapitata		OECD 201		
	Acute bacteria toxicity	(EC50 mg/l)	12,8	3 h	Activated sludge		OECD 209		
2682-20-4	2-methyl-2H-isothiazol-3-one								
	Acute fish toxicity	LC50 mg/l	>0,15	96 h	Danio rerio (zebrafish)				
	Acute algae toxicity	ErC50 mg/l	0,157	72 h	Pseudokirchneriella subcapitata				
	Acute crustacea toxicity	EC50 mg/l	0,87	48 h	Daphnia magna (Big water flea)				
	Acute bacteria toxicity	(EC50 mg/l)	34,6	3 h	Activated sludge				
55965-84-9	reaction mass of 5-chloro-	-2-methyl-2H	l-isothiazol-	3-one and	d 2-methyl-2H-isothiazol-	-3-one (3:1)			
	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		

12.2. Persistence and degradability

The product has not been tested.



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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

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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. 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



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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

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 % (0,439 g/l)



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2004/42/EC (VOC): 0,017 % (0,263 g/l)

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(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

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

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation

intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds

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SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

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.

May cause an allergic skin reaction. H317 Causes serious eye damage. H318

H330 Fatal if inhaled.

H351 Suspected of causing cancer.

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.

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

TF: Technical functions

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

LCS: Life cycle stages PC: Product categories ERC: Environmental release categories

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.)