

Safety data sheet in accordance with Regulation (EC) No 1907/2006

Revision date: 23.05.2025
Replacement of version 0026 of 15.04.2024

Version: 0027

Knauf Aquapanel GmbH & Co. KG

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

1.1 *Product identifier*

Trade name **AQUAPANEL® Exterior Silicon Synthetic Resin Plaster - white**
Product number **KAQ_0401**
Item code **49320**

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

Appropriate use:
The product is used as a facade plaster/structural plaster.

Recommended restrictions on use:

Preclude from exposure and handling this product those persons suffering from an allergy and those persons susceptible to respiratory disease.

1.3 *Details of the supplier of the safety data sheet*

Knauf Aquapanel GmbH & Co. KG
Zur Helle 11
D-58638 Iserlohn

Telephone: +49-2374-50360

Fax: +49-2374-5036300

e-mail: aquapanel.info@knauf.com

e-mail-address of the competent person responsible for this Safety Data Sheet:

info@gefstoff.de

Technical contact:

Knauf Aquapanel GmbH & Co. KG, Zur Helle 11, D-58638 Iserlohn
Telephone: +49-2374-50360 Fax: +49-2374-5036300

1.4 *Emergency telephone number*

Giftnotruf der Charité - Universitätsmedizin Berlin, Campus Benjamin Franklin, Haus VIII (Wirtschaftsgebäude), UG
Hindenburgdamm 30, 12203 Berlin
Giftnotruf Berlin +49-30-30686 700 (Advice in German and English)
(24 hours, Monday – Sunday)

SECTION 2: Hazards identification

2.1 *Classification of the substance or mixture*

Aquatic Chronic 3; H412

The product contains sensitising substances in concentrations above one tenth of the specific concentration limit which leads to a classification of the mixture as skin sensitising.

The special labelling requirements of section 2.8 of Annex II of the Regulation must be applied.

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Telephone:	+49-(0)2374-50360	Revision date:	23.05.2025

2.2 Label elements

Hazard pictogram(s):	No pictogram is used		
Signal word(s):	No signal word is used		
Product identifier:	AQUAPANEL® Exterior Silicon Synthetic Resin Plaster - white		
Hazard statements:	H412	Harmful to aquatic life with long lasting effects.	
Precautionary statements:	P102	Keep out of reach of children.	
	P262	Do not get in eyes, on skin, or on clothing.	
	P273	Avoid release to the environment.	
	P501	Dispose of contents/container to an authorized waste disposal site.	
Supplemental hazard information:			
	EUH208	Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.	
	EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist	
Special labelling in accordance with Article 58 (3) of Regulation (EU) No 528/2012:	Treated article according to Regulation (EU) No 528/2012 to ensure the stability and shelf life. Contains pyridine-2-thiol-1-oxide, sodium salt, pyriothione zinc, terbutryn.		

Remark:

- The precautionary statements P102 and P501 must only appear on the label of packaging supplied to the general public.
- According to Article 35 paragraph 2 of Regulation (EC) No 1272/2008 packaging supplied to the general public should not have either a shape or form to mislead consumers.

2.3 Other hazards

Persistent or repeated contact with the skin may cause irritations.
 Risk of skin defatting and skin desiccation in case of persistent or repeated contact with the skin.
 Preclude from exposure and handling this product those persons suffering from an allergy and those persons susceptible to respiratory disease.
 Ingestion of the product can cause disorders of the intestinal flora.
 The product is classified as slightly hazardous to water.
 The mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.
 The mixture does not contain substances having endocrine disrupting properties in accordance with Article 57 (f) of the Regulation (EC) No 1907/2006, Regulation (EU) No 2017/2100 or Regulation (EU) No 2018/605 in a concentration of 0.1% or more.

SECTION 3: Composition/information on ingredients
3.2 Mixtures

REACH registration number:
 The ingredients do not require registration according to Regulation (EC) No 1207/2006 [REACH] (exempted from registration or the annual tonnage does not require a registration).

Characterisation

This product is a mixture.

Substances presenting a health/environmental hazard within the meaning of Regulation (EC) No 1272/2008

CAS No	EC No	Identification	% by weight	Classification
13463-67-7	236-675-5	titanium dioxide [in powder form containing 1% or more of particles with aerodynamic diameter ≤ 10 µm]	≥ 1 - < 10	Carc. 2; H351 (inhalation)

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(continued from 3.2 Mixtures)

CAS No	EC No	Identification	% by weight	Classification
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one	≥ 0.0036 - < 0.036	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-factor: M = 1 M-factor (chronic): M = 1
3811-73-2	223-296-5	pyridine-2-thiol-1-oxide, sodium salt	< 0.04	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 3; H331 STOT RE 1; H372 (nervous system) Aquatic Acute 1; H400 Aquatic Chronic 2; H411 EUH070 M-factor: M = 100
13463-41-7	236-671-3	pyrithione zinc	< 0,02	Acute Tox. 3; H301 Eye Dam. 1; H318 Acute Tox. 2; H330 Repr. 1B; H360D STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-factor: M = 1000 M-factor (chronic): M = 10
886-50-0	212-950-5	terbutryn	< 0.01	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-factor: M = 100 M-factor (chronic): M = 100
26530-20-1	247-761-7	2-octyl-2H-isothiazol-3-one	≥ 0.00015 – < 0.0015	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-factor (acute): M = 100 M-factor (chronic): M = 100
55965-84-9	not available	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	≥ 0.00015 – < 0.0015	Acute Tox. 3; H301 Acute Tox. 2; H310 Skin Corr. 1C; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Acute Tox. 2; H330 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 M-factor: M = 100 M-factor (chronic): M = 100

See subsection 2.2 for further details. Full text of the hazard statements see Section 16.

Substances for which there are Union workplace exposure limits (see also Section 8.)

No substances.

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(continued from 3.2 Mixtures)

Additional information

Titanium dioxide: In accordance with note 10 of Annex VI of Regulation (EC) No 1272/2008 the classification as carcinogen by inhalation applies only to mixtures in powder form.

Specific concentration limits for 1,2-benzisothiazol-3(2H)-one in accordance with Annex VI of Regulation (EC) No 1272/2008:

Skin Sens. 1A; H317: C ≥ 0.036%

ATE for 1,2-benzisothiazol-3(2H)-one in accordance with Annex VI of Regulation (EC) No. 1272/2008:

inhalation: 0.21 mg/L (dusts or mists)

oral: 450 mg/kg bw

ATE for pyrrhione zinc in accordance with Annex VI of Regulation (EC) No. 1272/2008:

inhalation: 0.14 mg/L (dusts or mists)

oral: 221 mg/kg bw

ATE for pyridine-2-thiol-1-oxide, sodium salt in accordance with Annex VI of Regulation (EC) No. 1272/2008:

inhalation: 0.5 mg/L (dusts or mists)

dermal: 790 mg/kg bw

oral: 500 mg/kg bw

Specific concentration limits for 2-octyl-2H-isothiazol-3-one in accordance with Annex VI of Regulation (EC) No 1272/2008:

Skin Sens. 1A; H317: C ≥ 0.0015%

ATE for 2-octyl-2H-isothiazol-3-one in accordance with Annex VI of Regulation (EC) No. 1272/2008:

inhalation: 0.27 mg/L (dusts or mists)

dermal: 311 mg/kg bw

oral: 125 mg/kg bw

Specific concentration limits for reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) in accordance with Annex VI of Regulation (EC) No 1272/2008:

Eye Dam. 1; H318: C ≥ 0.6%

Eye Irrit. 2; H319: C ≥ 0.06 - < 0.6%

Skin Corr. 1C; H314: C ≥ 0.6%

Skin Irrit. 2; H315: C ≥ 0.06 - < 0.6%

Skin Sens. 1A; H317: C ≥ 0.0015%

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing immediately and wash before reuse.

Emergency eyewash should be provided in the immediate working surroundings.

In case of inhalation

Take affected person to fresh air. By continuous complaints seek medical advice.

In case of contact with skin

In case of contact with skin wash off immediately with soap and water. Do not wash with solvents or diluting agent.

By continuous complaints seek medical advice.

In case of contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do.

If symptoms persist, consult an ophthalmologist.

In case of ingestion

If swallowed, rinse mouth with water (only if the person is conscious).

Do not induce vomiting. Put victim at rest. Summon a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risk of skin defatting and skin desiccation in case of persistent or repeated contact with the skin.

Possible allergic reaction in case of skin contact.

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- 4.3** *Indication of any immediate medical attention and special treatment needed*
Treat symptomatically. No information available.

SECTION 5: Firefighting measures

5.1 *Extinguishing media*

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, dry powder, water spray jet.

Unsuitable extinguishing media

Full water jet.

5.2 *Special hazards arising from the substance or mixture*

In the event of fire the following can be released: toxic pyrolysis products (e.g. carbon dioxide, carbon monoxide).

5.3 *Advice for firefighters*

Wear self-contained breathing apparatus. Do not inhale explosion and/or combustion gases.

Cool endangered containers with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Aqueous product is not combustible as long as the water fraction is present.

SECTION 6: Accidental release measures

6.1 *Personal precautions, protective equipment and emergency procedures*

For non-emergency personnel

Ensure adequate ventilation. Use personal protective clothing. Keep away from unprotected people.

For emergency responders

For suitable fabric for personal protective clothing see Section 8.

6.2 *Environmental precautions*

Do not discharge into the drains, the aquatic environment and soil.

6.3 *Methods and material for containment and cleaning up*

Absorb with liquid-binding material (e.g. sand, kieselguhr, acid binder, universal binder).

Send in suitable containers for recovery or disposal.

Clean contaminated floors and objects thoroughly with detergents, do not use solvents.

6.4 *Reference to other sections*

For personal protective equipment see also Section 8.

For disposal considerations see also Section 13.

SECTION 7: Handling and storage

7.1 *Precautions for safe handling*

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary).

Comply with the minimum standards in accordance with TRGS 500¹.

Moreover, comply with the protective measures in accordance with TRGS 401¹.

In designing the work process the model solutions of the Control Guidance Sheet 120¹ must be taken into consideration in case of small-area skin contact (e.g. splashes) regardless on the duration of skin contact.

In designing the work process the model solutions of the Control Guidance Sheet 120¹ must be taken into consideration in case of large-area skin contact (wetting of the skin) and short-term effect (duration of skin contact less than 15 minutes per shift).

In designing the work process the model solutions of the Control Guidance Sheets 120¹ and 250¹ must be taken into consideration in case of large-area skin contact (wetting of the skin) and long-term effect (duration of skin contact more than 15 minutes per shift).

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(continued from 7.1 Precautions for safe handling)

Advice on general occupational hygiene

Avoid contact with eyes and skin. Take off contaminated clothing immediately and wash before reuse.
 At work do not eat, drink, smoke or take drugs. Clean skin thoroughly after work and before breaks; apply skin cream.
 Use barrier skin cream. Set out skin protection guidelines.
 Emergency eyewash should be provided in the immediate working surroundings.

7.2 Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

No special measures necessary.
 Aqueous product is not combustible as long as the water fraction is present.

Requirements for storage rooms and vessels

Keep container tightly closed.
 Keep only in the original container in a dry, well ventilated place.

Advice on storage compatibility

Do not store together with strong acidic and alkaline materials and oxidising agents.
 The information about joint storage given in Table 12 of TRGS 510¹ must be observed.

Further information on storage conditions

Protect from heat and direct sunlight. Protect from frost.
 Recommended storage temperature: + 5°C up to + 25°C.
 Storage life: 24 months in the unopened original container.

Storage class (for Germany only)

LGK 12 in accordance with TRGS 510¹.

7.3 Specific end use(s)

The product is only intended for the uses mentioned under subsection 1.2.
 For outdoor use. Observe technical data sheet.
 In accordance with GISBAU (Information system of the German employers' liability insurance association for building and construction industry):
 GISCODE⁴: BSW50 (covering agents, water based, solvent-containing, protective film)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS number	Identification	Limit values	Remarks
13463-67-7	titanium dioxide	5 mg/m ³ respirable fraction 10 mg/m ³ 6 mg/m ³ total dust 11 mg/m ³ inhalable aerosol 10 mg/m ³ inhalable dust 1.25 mg/m ³ respirable dust 10 mg/m ³ inhalable fraction 4 mg/m ³ respirable fraction 10 mg/m ³ 5 mg/m ³ 10 mg/m ³ inhalable fraction 10 mg/m ³ 10 mg/m ³ inhalable fraction 5 mg/m ³ inhalable aerosol 3 mg/m ³ respirable aerosol 10 mg/m ³ inhalable fraction 4 mg/m ³ respirable fraction 10 mg/m ³ respirable fraction 12 mg/m ³ total dust 20 mg/m ³ inhalable dust 2.5 mg/m ³ respirable dust 15 mg/m ³	National limit values – eight hours Austria Belgium Denmark France Germany Germany Ireland Ireland Latvia Norway Poland Romania Spain Sweden Switzerland United Kingdom United Kingdom National limit values – short-term Austria Denmark Germany Germany Romania

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(continued from 8.1 Control parameters)

CAS number	Identification	Limit values	Remarks
26530-20-1	2-octyl-2 <i>H</i> -isothiazol-3-one	0.05 mg/m ³ inhalable fraction 0.05 mg/m ³ inhalable fraction 0.05 mg/m ³ inhalable aerosol 0.05 mg/m ³ inhalable fraction 0.1 mg/m ³ inhalable fraction 0.1 mg/m ³ inhalable aerosol	National limit values – eight hours Austria Germany Switzerland National limit values – short-term Austria Germany Switzerland
3811-73-2	pyridine-2-thiol-1-oxide, sodium salt	1 mg/m ³ 1 mg/m ³ 0.2 mg/m ³ inhalable fraction 0.2 mg/m ³ inhalable fraction 4 mg/m ³ 2 mg/m ³ 0.4 mg/m ³ inhalable fraction 0.4 mg/m ³ inhalable fraction	National limit values – eight hours Austria Denmark Germany Switzerland National limit values – short-term Austria Denmark Germany Switzerland
55965-84-9	reaction mass of 5-chloro-2-methyl-2 <i>H</i> -isothiazol-3-one and 2-methyl-2 <i>H</i> -isothiazol-3-one (3:1)	0.05 mg/m ³ 0.2 mg/m ³ inhalable fraction* 0.2 mg/m ³ 0.2 mg/m ³ inhalable fraction 0.4 mg/m ³ inhalable fraction* 0.4 mg/m ³ 0.4 mg/m ³ inhalable fraction	National limit values – eight hours Austria Germany Poland Switzerland National limit values – short-term Germany Poland Switzerland

* Germany: This data is recommended by scientific experience and is not established law.

DNEL values
Additional limit values for titanium dioxide in accordance with the registration dossier:

worker, long-term exposition: inhalation, local effect: 1.25 mg/m³
 general population, long-term exposition: inhalation, local effect: 210 µg/m³

Additional limit values for 1,2-benzisothiazol-3(2*H*)-one in accordance with the registration dossier:

worker, long-term exposition: inhalation, systemic effect: 6.81 mg/m³
 worker, long-term exposition: dermal, systemic effect: 0.966 mg/kg_{bw}/d
 general population, long-term exposition: inhalation, systemic effect: 1.2 mg/m³
 general population, long-term exposition: dermal, systemic effect: 0.345 mg/kg_{bw}/d

Additional limit values for 2-octyl-2*H*-isothiazol-3-one in accordance with the registration dossier:

worker, long-term exposition: inhalation, systemic effect: 1.63 mg/m³
 worker, long-term exposition: dermal, systemic effect: 0.133 mg/kg_{bw}/d
 general population, long-term exposition: inhalation, systemic effect: 0.29 mg/m³
 general population, long-term exposition: dermal, systemic effect: 13.4 µg/kg_{bw}/d
 general population, long-term exposition: oral, systemic effect: 0.167 mg/kg_{bw}/d

Additional limit values for reaction mass of 5-chloro-2-methyl-2*H*-isothiazol-3-one and 2-methyl-2*H*-isothiazol-3-one (3:1) in accordance with the registration dossier:

worker, long-term exposition: inhalation, local effect: 0.02 mg/m³
 worker, short-term exposition: inhalation, local effect: 0.04 mg/m³
 general population, long-term exposition: inhalation, local effect: 0.02 mg/m³
 general population, short-term exposition: inhalation, local effect: 0.04 mg/m³
 general population, long-term exposition: oral, systemic effect: 0.09 mg/kg_{bw}/d
 general population, short-term exposition: oral, systemic effect: 0.11 mg/kg_{bw}/d

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(continued from 8.1 Control parameters)

PNEC values

Additional limit values for 1,2-benzisothiazol-3(2H)-one in accordance with the registration dossier:

aquatic, fresh water:	4.03 µg/l
aquatic, fresh water, intermittent release:	1.1 µg/l
aquatic, marine water:	0.403 µg/l
aquatic, marine water, intermittent release:	110 ng/l
aquatic, sewage treatment plant:	1.03 mg/l
sediment, fresh water:	49.9 µg/kg _{dw}
sediment, marine water:	4.99 µg/kg _{dw}
soil environment:	3 mg/kg _{dw}

Additional limit values for 2-octyl-2H-isothiazol-3-one in accordance with the registration dossier:

aquatic, fresh water:	2.2 µg/l
aquatic, fresh water, intermittent release:	1.22 µg/l
aquatic, marine water:	0.22 µg/l
aquatic, marine water, intermittent release:	0.122 µg/l
aquatic, sewage treatment plant:	3.04 mg/l
sediment, fresh water:	47.5 µg/kg _{dw}
sediment, marine water:	4.75 µg/kg _{dw}
soil environment:	8.2 µg/kg _{dw}

Additional limit values for reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) in accordance with the registration dossier:

aquatic, fresh water:	3.39 µg/l
aquatic, fresh water, intermittent release:	3.39 µg/l
aquatic, marine water:	3.39 µg/l
aquatic, marine water, intermittent release:	3.39 µg/l
aquatic, sewage treatment plant:	0.23 mg/l
sediment, fresh water:	0.027 mg/kg _{dw}
sediment, marine water:	0.027 mg/kg _{dw}
soil environment:	0.01 mg/kg _{dw}

The methods for measuring chemical agents in workplace atmosphere must meet the general requirements of EN 481, EN 482 and EN 689.

8.2 Exposure controls

Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.
See also subsection 7.1.

Individual protection measures, such as personal protective equipment

Personal protective equipment needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.
In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer/ supplier of the personal protective equipment.

Eye/face protection



Tightly fitting safety glasses in accordance with EN 166.
In case of spraying: goggles.

Hand protection



Protective gloves made of nitrile rubber.
Wear cotton undermitten if possible.
The protective gloves to be used must comply with the specifications of the standard EN 374.

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(continued from 8.2 Exposure controls)

Body protection

Closed work clothing. In case of spraying: single-use suit.

Respiratory protection



In case of spraying, higher concentrations and if ventilation insufficient, use a respiratory protection apparatus with respiration filter (particle filter P2).
The limitations in wearing time according to the DGUV Regel 112-190² (rule of the German employers' liability insurance association) for the use of respirators have to be observed.

Thermal hazards

Not relevant.

Environmental exposure controls

Consumer exposure controls:

Other protection measures such as segregation of activity, minimisation of personnel, respiratory protection, impervious suits and face shields should also be considered for high dispersion activities which are likely to lead to substantial aerosol or vapour release, e.g. spraying.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	pasty	
Colour:	various	
Odour:	characteristic	
Odour threshold:	no data available	
Melting point/freezing point (°C):	0	
Boiling point/initial boiling point/boiling range (°C):	100	
Flammability:	not flammable	
Lower explosion limit:	not applicable	
Upper explosion limit:	not applicable	
Flash point (°C), closed cup:	not applicable	
Auto-ignition temperature (°C):	not applicable	
Decomposition temperature (°C):	not determined	
pH (as supplied):	9	(DIN ISO 976)
Kinematic viscosity (mm ² /s):	no data available	
Solubility in water:	completely miscible	
Soluble in:	not determined	
Partition coefficient: n-octanol/water (log value):	no data available	
Vapour pressure (20°C) (hPa):	no data available	
Density (kg/l):	approx. 1.80	(DIN EN ISO 2811-1)
Relative vapour density (20°C):	not determined	
Particle characteristics:	not applicable	

9.2 Other information

Content of VOC: < 1.9% (35 g/l maximum)

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available for the product.

10.2 Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Possible reaction in case of contact with strong acids, strong alkalies and oxidising agents.

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10.4 Conditions to avoid

When used as intended, no particular conditions known.

10.5 Incompatible materials

Avoid contact with strong acids, strong alkalies and oxidising agents.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

For hazardous combustion products see subsection 5.2.

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

The product has not been tested.

Acute toxicity

LD50 rat, oral	(mg/kg)	> 2000	(titanium dioxide)	(OECD Test Guideline 401)
		450	(1,2-benzisothiazol-3(2H)-one)	(ATE)
		500	(pyridine-2-thiol-1-oxide, sodium salt)	(ATE)
		221	(pyrithione zinc)	(ATE)
		2045	(terbutryn)	(RTECS)
		125	(2-octyl-2H-isothiazol-3-one)	(ATE)
LC50 rat, inhalation	(mg/l/4h)	66	(reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))	(OECD Test Guideline 401)
		3.43	(titanium dioxide)	(OECD Test Guideline 403)
		0.21	(1,2-benzisothiazol-3(2H)-one)	(ATE; dusts or mists)
		0.5	(pyridine-2-thiol-1-oxide, sodium salt)	(ATE; dusts or mists)
		0.14	(pyrithione zinc)	(ATE; dusts or mists)
		> 8	(terbutryn)	(RTECS)
LD50 rat, dermal	(mg/kg)	0.27	(2-octyl-2H-isothiazol-3-one)	(ATE; dusts or mists)
		0.171	(reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))	(OECD Test Guideline 403)
		> 2000	(1,2-benzisothiazol-3(2H)-one)	(OECD Test Guideline 402)
		790	(pyridine-2-thiol-1-oxide, sodium salt)	(ATE)
		> 2000	(terbutryn)	(RTECS)
		311	(2-octyl-2H-isothiazol-3-one)	(ATE)
LD50 rabbit, dermal	(mg/kg)	> 141	(reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))	(OECD Test Guideline 402)

Skin corrosion/irritation

Skin irritation, rabbit	Not irritating	(titanium dioxide)	(OECD Test Guideline 404)
		(pyridine-2-thiol-1-oxide, sodium salt)	(OECD Test Guideline 404)
		(pyrithione zinc)	(OECD Test Guideline 404)
		(2-octyl-2H-isothiazol-3-one)	(OECD Test Guideline 404)
		(reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))	(OECD Test Guideline 404)

Serious eye damage/irritation

Eye irritation, rabbit	Not irritating	(titanium dioxide)	(OECD Test Guideline 405)
		(pyridine-2-thiol-1-oxide, sodium salt)	(OECD Test Guideline 405)
		(pyrithione zinc)	(OECD Test Guideline 405)
		(2-octyl-2H-isothiazol-3-one)	(OECD Test Guideline 405)
		(reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))	(OECD Test Guideline 405)

Respiratory or skin sensitisation

The product has not been tested.

The product contains 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) and pyridine-2-thiol-1-oxide, sodium salt.

These substances are classified as sensitising.

Germ cell mutagenicity

The mixture does not contain substances classified as germ cell mutagens.

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(continued from 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008)

Carcinogenicity

The mixture contains a substance classified as Carc. 2 according to Regulation (EC) No 1272/2008 below the generic cut-off value.

Titanium dioxide: In accordance with note 10 of Annex VI of Regulation (EC) No 1272/2008 the classification as carcinogen by inhalation applies only to mixtures in powder form.

Reproductive toxicity

The mixture contains a substance classified as toxic for the reproduction below the cut-off value.

Specific target organ toxicity (STOT)-single exposure

The mixture does not contain substances classified as being a specific target organ toxicant after single exposure.

Specific target organ toxicity (STOT)-repeated exposure

The mixture contains substances classified as being a specific target organ toxicant after repeated exposure below the cut-off value.

Aspiration hazard

The mixture does not contain aspiration toxicants.

Symptoms related to the physical, chemical and toxicological characteristics

Persistent or repeated contact with the skin may cause irritations.

Risk of skin defatting and skin desiccation in case of persistent or repeated contact with the skin.

Possible allergic reaction in case of skin contact.

Ingestion of the product can cause disorders of the intestinal flora.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Persistent or repeated contact with the skin may cause irritations.

Risk of skin defatting and skin desiccation in case of persistent or repeated contact with the skin.

Persons suffering from an allergy may be sensitive to very low concentrations of allergenic substances and should consequently have no further contact with this product (possibility of an allergic reaction).

Ingestion of the product can cause disorders of the intestinal flora.

11.2 Information on other hazards

The mixture has not been tested.

Endocrine disrupting properties

The mixture does not contain substances having endocrine disrupting properties in accordance with Article 57 (f) of the Regulation (EC) No 1907/2006, Regulation (EU) No 2017/2100 or Regulation (EU) No 2018/605 in a concentration of 0.1% or more.

Other information

None.

SECTION 12: Ecological information
12.1 Toxicity
Aquatic toxicity:

96 h LC50	(fish)	2.18 mg/l	(Oncorhynchus mykiss; rainbow trout) (1,2-benzisothiazol-3(2H)-one)	(OECD Test Guideline 203)
		7,3 µg/l	(Oncorhynchus mykiss; rainbow trout) (pyridine-2-thiol-1-oxide, sodium salt)	(EPA OPP 72-1)
		1.1 mg/l	(Lepomis macrochirus; bluegill sunfish) (terbutryn)	(external safety data sheet)
		0.122 mg/l	(2-octyl-2H-isothiazol-3-one) (QSAR; EPI Suite v4.11 (ECOSAR v.1.11))	
		0.19 mg/l	(Oncorhynchus mykiss; rainbow trout) (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))	(EPA OPP 72-1)
21 d NOEC	(fish)	0.01 mg/l	(Oncorhynchus mykiss; rainbow trout) (terbutryn)	(external safety data sheet)
35 d NOEC	(fish)	≥ 46.4 µg/l	(Danio rerio; zebrafish) (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))	(OECD Test Guideline 210)

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(continued from 12.1 Aquatic toxicity)

60 d NOEC	(fish)	0.022 mg/l	(2-octyl-2H-isothiazol-3-one) (QSAR; EPI Suite v4.11 (ECOSAR v.1.11))
48 h EC50	(daphnia)	> 100 mg/l	(Daphnia magna) (titanium dioxide) (OECD Test Guideline 202)
		2.94 mg/l	(Daphnia magna) (1,2-benzisothiazol-3(2H)-one) (OECD Test Guideline 202)
		0.6 mg/l	(Daphnia magna) (pyridine-2-thiol-1-oxide, sodium salt) (OECD Test Guideline 202)
		2.66 mg/l	(Daphnia magna) (terbutryn) (external safety data sheet)
		8.2 µg/l	(Daphnia magna) (pyrithione zinc) (EPA OPP 72-2)
0.16 mg/l	(Daphnia magna)	0.16 mg/l	(Daphnia magna) (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) (EPA OPP 72-2)
		0.181 mg/l	(Daphnia sp) (2-octyl-2H-isothiazol-3-one) (QSAR; EPI Suite v4.11 (ECOSAR v.1.11))
21 d NOEC	(daphnia)	≥ 10 mg/l	(Daphnia magna) (titanium dioxide) (OECD Test Guideline 202)
		1.3 mg/l	(Daphnia magna) (terbutryn) (external safety data sheet)
		0.035 mg/l	(Daphnia sp) (2-octyl-2H-isothiazol-3-one) (QSAR; EPI Suite v4.11 (ECOSAR v.1.11))
		0.004 mg/l	(Daphnia magna) (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) (OECD Test Guideline 211)
72 h EC50	(algae)	> 100 mg/l	(Raphidocelis subcapitata) (titanium dioxide) (OECD Test Guideline 201)
		70 µg/l	(Raphidocelis subcapitata) (1,2-benzisothiazol-3(2H)-one) (OECD Test Guideline 201)
		6.3 µg/l	(Skeletonema costatum) (reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)) (OECD Test Guideline 201)
		0.22 mg/l	(Desmodesmus subspicatus) (pyridine-2-thiol-1-oxide, sodium salt) (OECD Test Guideline 201)

Behaviour in sewage works:

The behaviour of the product in sewage treatment plants has not been tested. Do not discharge into the drains.

12.2 Persistence and degradability

The product has not been tested.

- 1,2-benzisothiazol-3(2H)-one: 85%/63d (OECD Test Guideline 301 C). Readily biodegradable.
- Pyridine-2-thiol-1-oxide, sodium salt: 22%/28d (OECD Test Guideline 301 B). Not readily biodegradable.
- Pyrithione zinc: 39%/28d (OECD Test Guideline 301 B). Not readily biodegradable.
- 2-octyl-2H-isothiazol-3-one: 28 d (QSAR). Not readily biodegradable.
- Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1): 55.8%/28d (OECD Test Guideline 301 B). Not readily biodegradable.

Chemical oxygen demand (COD)	Not relevant.
Biochemical oxygen demand (BOD5)	Not relevant.
AOX-hint	Not to apply.

12.3 Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water:

0.7	(20°C; pH 7)	(1,2-benzisothiazol-3(2H)-one)	(EU method A.8)
- 2.38	(20°C; pH 7)	(pyridine-2-thiol-1-oxide, sodium salt)	(EU method A.8)
0.9	(25°C; pH 7.5 - < 7.7)	(pyrithione zinc)	(OECD Test Guideline 107)
3.65 - 3.74		(terbutryn)	(external safety data sheet)
2.61	(25°C)	(2-octyl-2H-isothiazol-3-one)	(REACH registration dossier)
0.326	(24°C)	(reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))	(OECD Test Guideline 107)

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12.4 *Mobility in soil*

The product has not been tested.

12.5 *Results of PBT and vPvB assessment*

The mixture does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.

12.6 *Endocrine disrupting properties*

The mixture does not contain substances having endocrine disrupting properties in accordance with Article 57 (f) of the Regulation (EC) No 1907/2006, Regulation (EU) No 2017/2100 or Regulation (EU) No 2018/605 in a concentration of 0.1% or more.

12.7 *Other adverse effects*

Ozone depletion potential No data available.

Photochemical ozone creation potential No data available.

Global warming potential No data available.

The product is classified as slightly hazardous to water.

Contains according to the formulation following heavy metals and compounds of EC-Directives 2000/60/EC:
biocides and plant protection products

SECTION 13: Disposal considerations

13.1 *Waste treatment methods*

Waste disposal according to official state regulations.

Consult the local waste disposal expert about waste disposal.

Sewage disposal must be avoided.

Disposal operations/recovery operations according to Directive 2008/98/EC

Disposal operations: D 9 Physico-chemical treatment

Recovery operations: R 5 Recycling/reclamation of other inorganic materials

Properties of waste which render it hazardous in accordance with Annex III of Directive 2008/98/EC

Not relevant.

Product/unused product

Waste disposal corresponding to European Waste Catalogue. Wastes must be classified with respect to their origin and depending on different processing steps.

The waste codes mentioned as follows are only constituted as our recommendations. Referring to the particular case they should be completed or revised.

Dried-out product remainders:

EC waste code: 08 01 12

Waste notation: Waste paint and varnish other than those mentioned in 08 01 11

Liquid product residues:

EC waste code: 08 01 20

Waste notation: Aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19

Alternative:

EC waste code: 17 09 04

Waste notation: Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

Contaminated packaging

Recommendation: Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent: Water.

Packaging that cannot be cleaned:

EC waste code: 15 01 02

Waste notation: Plastic packaging

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SECTION 14: Transport information

- 14.1 UN number or ID number**
No dangerous good in accordance with the UN Model Regulations (ADR/RID/ADN/IMDG/ICAO/IATA).
- 14.2 UN proper shipping name**
Not relevant.
- 14.3 Transport hazard class(es)**
Not relevant.
- 14.4 Packing group**
Not relevant.
- 14.5 Environmental hazards**
Not relevant.
- 14.6 Special precautions for user**
Not relevant.
- 14.7 Maritime transport in bulk according to IMO instruments**
Not relevant.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Information regarding relevant Union safety, health and environmental provisions

- Conditions of restriction in accordance with Annex XVII Regulation (EC) No 1907/2006: None
- The mixture does not contain substances classified as substances of very high concern (SVHC) in accordance with Article 57 of the Regulation (EC) No 1907/2006 in a concentration of 0.1% or more.
- Directive 2004/42/EC: The product is not subject to Directive 2004/42/EC.

Information regarding national laws/national measures that may be relevant (for Germany only)

- Indications on restriction of occupation: Not relevant
- Major Accident Ordinance: Not relevant
- Fire and explosion hazards: Not relevant
- Regulation on clean air (TA Luft): Not relevant
- Water hazard class: WGK 1 – slightly hazardous to water (deduction of the WGK according to Annex 1 No 5.2 AwSV)³
The German Ordinance on facilities for handling substances that are hazardous to water (AwSV) has to be observed.

- German Ordinance on Hazardous Substances (in accordance with EC-Directive 98/24/EC): Articles 6, 7, 8 and 14 must be observed.
- Technical Rules for Hazardous Substances¹: TRGS 400, 401, 500, 510, 555, 900
- Rules of the employers' liability insurance association²: DGUV Regel 112-189, 112-190, 112-192, 112-195
DGUV Regel 109-013
- Information of the employers' liability insurance association²: DGUV Information 209-014, 209-046, 209-052
- Classification in accordance with the easy-to-use workplace control scheme for hazardous substances of the Federal Institute for Occupational Safety and Health, version 2.2, 2014⁵: skin contact: hazard group HA

- 15.2 Chemical safety assessment**
No chemical safety assessment has been carried out for the mixture.

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SECTION 16: Other information

Keeping (restrictions) Article 8 paragraphs 5 and 6 of the German Ordinance on Hazardous Substances has to be observed. (only for Germany)

Supply to professional user, industrial user, to the general public

Full text of the hazard statements referred to under sections 2 and 3 of the Safety Data Sheet

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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H351	Suspected of causing cancer.
H360D	May damage 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.
H412	Harmful to aquatic life with long lasting effects.
EUH070	Toxic by eye contact.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Key or legend to abbreviations and acronyms used in the safety data sheet

ADN:	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ADR:	Accord relatif au transport international des marchandises dangereuses par route
AOX:	adsorbable organically bound halogens
ATE:	Acute Toxicity Estimate
AwSV:	Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water)
bw	body weight
DGUV:	Deutsche Gesetzliche Unfallversicherung (German Social Accident Insurance)
DNEL:	Derived No-Effect Level
ECOSAR:	Ecological Structure-Activity Relationship Program
EPA:	United States Environmental Protection Agency
EPI Suite:	Estimation Program Interface Suite
ICAO/IATA:	International Civil Aviation Organisation/International Air Transport Association-Dangerous Goods Regulations
IMDG-Code:	International Maritime Dangerous Goods-Code
IMO:	International Maritime Organization
LGK:	Lagerklasse (storage class)
NOEC:	No Observed Effect Level Concentration
OECD:	Organisation for Economic Co-operation and Development
OPP:	Office of Pesticide Programs
PBT:	persistent, bioaccumulative and toxic
PNEC:	Predicted No-Effect Concentration
QSAR :	Quantitative/Qualitative Structure Activity Relationship
RID:	Règlement international concernant le transport des marchandises dangereuses par chemin de fer
RTECS:	Registry of Toxic Effects of Chemical Substances
TRGS:	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
VCI:	Verband der chemischen Industrie (German Association of Chemical Industry)
vPvB:	very persistent and very bioaccumulative

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Literature references and sources for data

- ¹ <https://www.baua.de>
- ² <https://www.arbeitssicherheit.de>
- ³ <https://www.umweltbundesamt.de>
- ⁴ <https://www.wingisonline.de>
- ⁵ <https://www.baua.de/emkg>

Method used for the classification of the mixture

The classification was undertaken in accordance with the classification criteria of Annex I of Regulation (EC) No 1272/2008.

Changes which have been made to the previous version of the safety data sheet

Revised sections: 3.2, 4.1, 8.1, 12.1, 12.7, 15.1

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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