


SAFETY DATA SHEET according to 1907/2006/EC (REACH) amended by (UE) 2020/878		
weber FZ381		
Printing date: 06.11.2020	Version 2.1	Revision date: 17.04.2023

Section 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. PRODUCT IDENTIFIER

Trade name weber FZ381

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Applications identified: Construction chemicals. Silicate paint for coating external walls of buildings.

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier Saint-Gobain Construction Products Polska Sp. z o.o.
ul. Okrężna 16, 44-100 Gliwice, Poland
Phone: +48 41 35 69 317 (Monday to Friday: 9.00-16.00)
e-mail: SDS.pl@saint-gobain.com.

1.4. EMERGENCY TELEPHONE NUMBER

European emergency number: 112.
Polish national emergency numbers: 112 (general emergency phone),
998 (fire department), 999 (medical department).

Section 2. HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

CLP classification of the product according to Reg. 1272/2008 [CLP] as amended:

Physical and chemical hazards: The product not classified as hazardous.
Health hazards: Skin Irrit. 2 H315 – Causes skin irritation.
Skin Sens. 1H317 – May cause an allergic skin reaction.
Eye Irrit. 2 H319 - Causes serious eye irritation.
Environmental hazards: Aquatic Chronic 3 H412 - Harmful to aquatic life with long lasting effects.
Additional information: EUH211 – Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
EUH210 – Safety data sheet available on request.

2.2. LABEL ELEMENTS

Labelling according to Regulation 1272/2008 / EC [CLP]:

Hazard pictograms:



GHS07

Signal word: Warning


Hazard-determining components of labelling: potassium methylsilanetriolate; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).

Hazard statements (H):

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements (P):

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P273 Avoid release to the environment.

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- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection..
P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents, container in accordance with local, regional, national, international regulations.

Complementary information:

It contains biocides - coating biocides and active substances for preservation during storage.
EUH211 – Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
EUH210 – Safety data sheet available on request.

2.3. OTHER HAZARDS

- Based on the available information, the product does not contain at a concentration exceeding 0,1% of any substances:
- meeting the criteria of Annex XIII to Regulation 1907/2006 / EC (REACH), classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB),
 - included in the list established in accordance with Art. 59 (1) with endocrine disrupting properties identified as endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS


3.1. SUBSTANCES – the product is a mixture, not a substance.

3.2. MIXTURES - Product based on potassium water glass, pigments, fillers, preservatives and additives not classified as hazardous or not requiring listing in this section.

Dangerous components:

Number	Name	Classification	% by weight
CAS: 13463-67-7 WE: 236-675-5 Indeks: 022-006-002 Rej.: 01-2119489379-17-xxxx	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	Carc. 2 H351 (droga wziewna)	< 15
CAS: 31795-24-1 WE: 250-807-9 Indeks: - Reg nr.: 01-2119517439-34-0000	potassium methylsilanetriolate	Skin Corr. 1A H314; Eye Dam. 1 H318	< 1,5
CAS: 886-50-0 WE: 212-950-5 Indeks: - Reg nr.: -	terbutryn	Acute Tox. 4 H302, Skin Sens. 1B H317, Aquatic Acute 1 H400 (M=100), Aquatic Chronic 1 H410 (M=100)	< 0,01
CAS: 26530-20-1 WE: 247-761-7 Indeks: 613-112-00-5 Rej.: -	2-octyl-2H-isothiazol-3-one	Acute Tox. 3 H301; Acute Tox. 3 H311; Acute Tox. 2 H330; Skin Corr. 1 H314; Eye Dam. 1 H318; Skin Sens. 1A H317; Aquatic Acute 1 H400 (M=100); Aquatic Chronic 1 H410 (M=100); EUH071 <u>Specific concentration limits:</u> Skin Sens. 1 A; H317: C ≥ 0,0015 %	<0,005
CAS: 55965-84-9 WE: - Indeks: 613-167-00-5 Rej.: 01-2120764691-48-xxxx	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [WE: 247-500-7] and 2-methyl-2H-isothiazol-3-one [WE: 220-239-6] (3:1)	Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100); EUH071 <u>Specific concentration limits:</u> Skin Corr. 1C; H314: C ≥ 0,6 % Skin Irrit. 2; H315: 0,06 % ≤ C < 0,6 % Eye Dam. 1; H318: C ≥ 0,6 % Eye Irrit. 2; H319: 0,06 % ≤ C < 0,6 % Skin Sens. 1A; H317: C ≥ 0,0015 %	< 0,0015

For the wording of the listed hazard phrases refer to section 16.
Substances for which there are Union workplace exposure limits: None.
SVHC Substances: None.

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PBT or vPvB substances: None.

Substances in the form of nanoforms: None.

Substances on the list established in accordance with Art. 59 sec. 1 with endocrine disrupting properties identified as endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605: None.

Section 4. FIRST AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES

General recommendations

The usual precautions for working with chemicals should be followed.

After eye contact

Remove contact lenses. Immediately flush eyes with running water for at least 15 minutes with rolled eyelids. Seek medical advice.

After skin contact

Immediately remove any clothing contaminated with the product. Wash the skin contaminated with the product with plenty of soap and water and rinse thoroughly. Consult a dermatologist if skin irritation occurs.

After inhalation

Move / carry the injured out of the endangered area and place in a position that allows easy breathing. Provide access to fresh air. Seek medical advice if any symptoms persist.

After swallowing

Rinse mouth with water. Do not induce vomiting. Do not give any substances orally to an unconscious person without first consulting a doctor. Seek medical advice if any symptoms develop or persist.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

No further relevant information available

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No further relevant information available.

Section 5. FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Appropriate: The product is not flammable. Use commonly recommended extinguishing agents appropriate to the type of burning materials in the environment (carbon dioxide (CO₂), extinguishing powders, water spray).

Inappropriate: Avoid using jets of water under high pressure.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product is not flammable. Do not inhale fumes and gases that produce in the fire.. See also section 10.

5.3. ADVICE FOR FIREFIGHTERS

Follow the procedures applicable to chemical fires. Do not allow penetration of sewage from fire fighting to sewage system and waters. Waste water and fire residues should be disposed of in accordance with applicable regulations. Depending on the size of the fire, wear self-contained breathing apparatus, protective coveralls and chemical-resistant protective clothing.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES


Limit the access of bystanders to the accident area until appropriate cleaning operations are completed. Observe the recommended precautions, use personal protection measures (see sections 7 and 8). Provide adequate ventilation.

6.2. ENVIRONMENTAL PRECAUTIONS

Do not allow the product to get into sewage, water or soil and to sewage system. Warn others about the danger. Notify appropriate authorities in the event of significant release of the product into the environment.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

In case of small spills, cover with liquid-absorbing material - sand, diatomaceous earth, universal binder, sawdust and collect mechanically into a marked, sealed container for safe disposal of the product. Remove contaminated soil and dispose of it safely as directed

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6.4. REFERENCE TO OTHER SECTIONS

See section: 8, 13 i 15.

Section 7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

When using and storing the product, observe the generally applicable health and safety regulations for work with chemicals.

Recommendations for safe handling

Use in accordance with the intended use and recommendations contained in the manufacturer's instructions. Close the container tightly after use. Observe the principles of personal hygiene, use appropriate personal protective equipment (see section 8).

Recommendations for fire and explosion protection

No special measures are required.

Recommendations for occupational hygiene

Avoid eyes and skin contamination. Follow the principles of good industrial hygiene. Use appropriate personal protective equipment (see section 8). Do not eat, drink or smoke in the workplace. Wash hands with soap and water after work. Take off contaminated clothing immediately, clean / wash before reuse.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store only in original, tightly closed containers in dry rooms at a temperature above + 5°C. Keep away from heat and direct sunlight. Protect against frost. Do not smoke in the storage place. Keep away from food, drink and animal feed. Keep out of the reach of children. See also section 10.

7.3. SPECIFIC END USE(S)

See section 1. For further information contact the manufacturer / supplier.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Ingredients with limit values that require monitoring at the workplace:

Polish Regulation of the Minister of Family, Labor and Social Policy on the maximum allowable concentrations and intensities of factors harmful to health at the workplace (DzU2018, poz. 1286 with amendments):

Country Name	Name of agent	CAS No	Identifier
Poland	Calcium carbonate	471-34-1	Long-term value: 10 mg/m ³ * *total inhalable
Poland	Titanium dioxide	13463-67-7	Long-term value: 10 mg/m ³ * *total inhalable

UE workplace exposure limits: None.

Biological limit values:

Hygienic standards in biological material have not been established for the substances present in the mixture.


Recommended monitoring procedures:

The mode, type and frequency of tests and measurements should meet the requirements of the Regulations on tests and measurements of factors harmful to health in the work environment.

Relevant DNELs/DMELs/PNECs and other threshold levels

Potassium methylsilanetriolate:

Endpoint	Threshold level	Protection goal, route of exposure	Used in Exposure time
DNEL	47 mg/m ³	human, inhalatory worker (industry)	Chronic– systemic effects
DNEL	47 mg/m ³	human, inhalatory worker (industry)	Acute – local effects
DNEL	6,6 mg/kg	human, dermal worker (industry)	Chronic– systemic effects
DNEL	6,6 mg/kg	human, dermal worker (industry)	Acute – local effects
DNEL	4,0 mg/kg	human, dermal consumer	Chronic– systemic effects
DNEL	4,0 mg/kg	human, dermal consumer	Acute – local effects
DNEL	0,42 mg/kg b.w./d	human, oral consumer	Chronic– systemic effects
DNEL	10 mg/m ³	human, inhalatory consumer	Chronic– systemic effects

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DNEL 10 mg/m³ human, inhalatory consumer Acute – local effects
PNEC freshwater: 4,2 mg/l;
PNEC marine water: 0,42 mg/l;
PNEC sewage treatment plant (STP): 10 mg/l;
PNEC freshwater sediment: 3,3 mg/kg;
PNEC marine sediment: 0,33 mg/kg;
PNEC soil: 0,54 mg/kg;
PNEC water, intermittent release: 42 mg/l;

8.2. EXPOSURE CONTROLS

Engineering Controls

Provide adequate ventilation at workplaces. See also section 7. It is recommended to install eyewashers in the vicinity of workplaces.

Individual protection measures:

Remove contaminated clothing immediately. Wash hands before breaks and after finishing work.

Do not eat, drink or smoke in the workplace. Avoid skin contact. Avoid contact with eyes. Keep away from food, beverages and food.

Personal protective equipment should meet the requirements of standards and regulations.



Respiratory protection

There is no need to use respiratory protection in conditions of adequate ventilation, when using the product in closed installations and during manual application.

Protective masks are recommended in the workplaces with insufficient ventilation, or in the case of mechanical application, where dusts or aerosols are formed, and when there is a likelihood of exposure to concentrations close to the occupational exposure limit (OEL). The selection of the protection class (P1, P2, P3) depends on the measurement results of the working environment or the exposure at the place of use. For short-term work, A2P2 combination filter. In an emergency, a mask with fresh air is recommended.



Hand protection

When working with the product, wear appropriate protective gloves with the CE marking.

Protective gloves should be adapted to the working conditions, i.e. mechanically resistant during construction works (e.g. nitrile-coated with cotton inside).

In case of prolonged contact with the skin, it is recommended to use gloves compliant with the EN 374 standard, resistant to alkaline environment (letter code K), with a minimum thickness of 0,2 mm and a breakthrough time > 240 min.

The duration of the protective effect may vary from glove manufacturer to glove manufacturer. It is recommended to replace the gloves immediately if there are any signs of wear, damage or change in appearance (color, flexibility, shape). The manufacturer's instructions must be followed not only for the use of gloves, but also for cleaning, maintenance and storage. Taking into account the glove parameters specified by the manufacturer, it is necessary to pay attention to whether the gloves still retain their protective properties



Eye / face protection

Wear goggles that protect against splashes of the product. Eye and face protection should comply with standards.



Skin protection

According to the exposure when handling the product wear suitable protective clothing with long sleeves, boots, etc.

8.2.3. Environmental exposure controls

Do not allow the product to get into groundwater, sewage system, sewage or soil.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|--------------------|---|
| a) Physical state: | Liquid (paste) |
| b) Colour: | White or colored depending on the added pigment |
| c) Odour: | Specific, weak |

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d) Melting point / freezing point:	0° C (water freezing point)
e) Boiling point or initial boiling point and boiling range:	100° C (water boiling point)
f) Flammability:	Not flammable
g) Lower and upper explosion limit:	Not explosive
h) Flash point:	Not applicable
i) Auto-ignition temperature:	Not applicable
j) Decomposition temperature:	Not determined
k) pH:	approx. 12
l) Kinematic viscosity / dynamic:	Not determined
m) Solubility:	Miscible with water
n) Partition coefficient n-octanol / water (log value):	Not applicable
o) Vapour pressure:	Not determined
p) Density and/or relative density:	1,28-1,56 g / cm ³ (at 20 ° C)
q) Relative vapour density:	Not determined
r) Particle characteristics:	Not applicable

9.2. OTHER INFORMATION**9.2.1. Information with regard to physical hazard classes**

Explosives:	Not explosive
Oxidizing gases:	Not applicable

9.2.2. Other safety characteristics

VOC content:	<0,5%
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Section 10. STABILITY AND REACTIVITY**10.1. REACTIVITY**

Non-reactive under correct storage conditions.

10.2. CHEMICAL STABILITY

The product is stable at recommended storage conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

There are not known in the normal conditions of storage and use.

10.4. CONDITIONS TO AVOID

High temperature, freezing .

10.5. INCOMPATIBLE MATERIALS

Not specified.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Products released in the fire environment - section 5.

Section 11. TOXICOLOGICAL INFORMATION**11.1. INFORMATION ON TOXICOLOGICAL EFFECTS**

a) Acute toxicity

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

Skin, inhalation and ingestion: ATE mix > 5000 mg/kg (calculated).

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Ingredients data:

Potassium Methylsiliconate:

Oral: LD50 2,000 mg/kg (rat)

2-octyl-2H-isothiazol-3-one (CAS: 26530-20-1):

inhalation: ATE = 0.27 mg/l (dusts or mists)

dermal: ATE = 311 mg/kg b.w.

oral ATE = 125 mg/kg b.w.

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one [EC: 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC: 220-239-6] (3:1) (CAS: 55965-84-9):

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Oral: LD50 = 53-64 mg/kg (rat)

Dermal: LD50 = 87 mg/kg (rat)

Inhalation: LC50 = 0.17-0.33 mg/l/4g (rat)

Calcium carbonate (CAS: 1317-65-3)

Oral: LD50 > 5000 mg/kg (rat)

Titanium dioxide (CAS: 13463-67-7)

Acute toxicity:

Oral: LD50 > 5000 mg/kg (rat)

Inhalation: LD 50/4h rat > 6.82 mg/l

Skin: no data available. Titanium dioxide does not penetrate the skin to a significant extent, therefore absorption through the skin in humans is considered negligible.

Repeated dose toxicity:

Titanium dioxide showed no adverse effects in a chronic oral toxicity study with a NOAEL of 3500 mg/kg bw/day (rat).

Titanium dioxide is not absorbed through the skin, therefore no toxic effects are expected from this route of exposure.

Titanium dioxide showed fibrogenic effects in a chronic inhalation repeated dose toxicity study with a NOAEC of 10 mg/m³ (rat).

b) Skin corrosion/irritation:

Causes skin irritation.

c) Serious eye damage/irritation:

Causes serious eye irritation.

d) Respiratory or skin sensitization:

May cause an allergic skin reaction.

e) Germ cell mutagenicity:

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

f) Carcinogenicity:

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

g) Reproductive toxicity:

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

h) Specific target organ toxicity (STOT) – single exposure:

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

i) Specific target organ toxicity (STOT) – repeated exposure:

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

j) Aspiration hazard:

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

11.2. INFORMATION ON OTHER HAZARDS

No relevant information available.

Section 12. ECOLOGICAL INFORMATION**12.1. TOXICITY**

Harmful to aquatic life with long lasting effects

Potassium Methylsiliconate:

LC50 (4 days) 500 mg/L (fish)

NOEC (4 days) 500 mg/L (fish)

EC50 (48 h) 500 mg/L (aquatic invertebrates)

NOEC (48h) 500 mg/L (aquatic invertebrates)

EC50 (72 hrs) 3.6 - 120 mg/L (algae)

NOEC (72 hrs) 3.6 - 120 mg/L (algae)

Natural calcium carbonate

Toxicity to fish: LC50 > 10000 mg/l/96h (Oncorhynchus mykiss (rainbow trout))

Toxicity to aquatic invertebrates: EC50 > 1000 mg/l/48h (Daphnia magna (Water flea))

Toxicity to algae: EC50 > 200 mg/l/72h (Desmodesmus subspicatus (green algae))

Titanium dioxide (CAS: 13463-67-7)

Toxicity to fish: LC50 > 1000 mg/l/96h (Pimephales promelas (goldfish))

Toxicity to aquatic invertebrates: EC50 > 1000 mg/l/48h (Daphnia magna (Water flea))

Toxicity to aquatic plants: EC50 = 61 mg/l/72h (Pseudokirchneriella subcapitata (green algae))

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EC50 = 1000 mg/l (marine algae)
EC10 or NOEC = 12.7 mg/l (freshwater algae)
EC10 or NOEC = 5600 mg/l (marine algae)
Toxicity to aquatic microorganisms: EC10 or NOEC = 1000 mg/l
Benthic organisms: EC50/LC50: 100000 mg/L of sediment on a dry basis (for freshwater sediments)
EC50/LC50: 14989 mg/L sediment on a dry weight basis (for marine sediments)
EC10/LC10 or NOEC: 100000 mg/L sediment on dry weight (freshwater sediment)
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (CMIT/MIT mixture) (CAS: 55965-84-9)
LC50 - fish (Oncorhynchus mykiss): 0.22 mg/l (96h)
EC50 - invertebrates (Daphnia magna): 0.1 mg/l (48h)
EC50 - invertebrates (Skeletonema costatum): 0.0052 mg/l (48h)
EC50 - algae (Pseudokirchneriella subcapitata): 0.048 mg/l (72h)
NOEC - fish (Oncorhynchus mykiss): 0.098 mg/l (28 days)
NOEC - invertebrates (Daphnia magna): 0.004 mg/l (21 days)
NOEC - invertebrates (Skeletonema costatum): 0.00064 mg/l (48h)
NOEC - algae (Pseudokirchneriella subcapitata): 0.0012 mg/l (72h)
EC50 - activated sludge: 7.92 mg/l (3h)
EC20 - activated sludge: 0.97 mg/l (3h)
Assessment: Toxic to aquatic life with long lasting effects.
Terbutrine (CAS: 886-50-0)
EC20: > 100 mg/l / 3 h (sewage organisms) (OECD 209)
EC50: 0.0067 mg/l / 72 h (Algae) (OECD 201), S 1244
EC50: 6.4 mg/l / 48 h (Daphnia) (OECD 202), S 1243
LC50: 1.9 mg/l / 96 h (Fish, rainbow trout) (OECD 203), S 1242
NOEC: 0.05 mg/l / 21 d (Daphnia) (OECD 211), S 1240
NOEC: 0.073 mg/l / 28 d (pimephales promelas) (OECD 210), S 1241
NOEC: 0.0005 mg/l / 72 h (Algae) (OECD 201), S 1244
2-octyl-2H-isothiazol-3-one (CAS: 26530-20-1)
EC20: 10.4 mg/l / 0.5 h (sewage organisms) (TTC-Test (8901 Macherey-Nagel)) literature
EC20: 7.3 mg/l / 3 h (sewage organisms) (OECD 209) literature
EC50: 0.084 mg/l / 72 h (Algae) (OECD 201), S 63
EC50: 0.42 mg/l / 48 h (Daphnia) (OECD 202), S 95
LC50: 0.036 mg/l / 96 h (Fish, rainbow trout) (OECD 203), S 93
NOEC: 0.002 mg/l / 21 d (Daphnia) (OECD 211), S 96
NOEC: 0.022 mg/l / 28 d (Fish, rainbow trout) (OECD 210), S 159
NOEC: 0.004 mg/l / 72 h (Algae) (OECD 201), S 63

12.2. PERSISTENCE AND DEGRADABILITY

Potential for rapid degradation of organic substances:
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (CMIT/MIT mixture) (CAS: 55965-84-9)
OECD 301 D Closed-Bottle-Test >60 % S 200 (b)
OECD 308 Simulation Biodegradation Aqu Sed System 1.82-1.92 d, S 617
Terbutrine (CAS: 886-50-0)
OECD 301 F Manometric Respirators 0%, S 1238
OECD 307 Aerobic and Anaerobic Transformation Soil 7.7 d, S 1517
2-octyl-2H-isothiazol-3-one (CAS: 26530-20-1)
OECD 309 Simulation Biodegradation - Surface Water 0.6 - 1.4 d, S 635
OECD 309 Simulation Biodegradation - Sea Water 1.6 - 2.1 d, S 636
Assessment: The mixture contains components that are not rapidly degradable in water.
Titanium dioxide (CAS: 13463-67-7):
It does not meet the durability (P) and high durability (vP) criteria.

Behavior in sewage treatment plants:

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (CMIT/MIT mixture) (CAS: 55965-84-9)
OECD 302 B Zahn-Wellens Test 100% S 2387
OECD 303 A: Activated Sludge Units >80%, S 199(b)
Assessment: The substance is biodegradable in the active sludge section.
Terbutrine (CAS: 886-50-0)
OECD 303 A Activated sludge simulation test < 70%, S 1237
2-octyl-2H-isothiazol-3-one (CAS: 26530-20-1)
OECD 303 A: Activated Sludge Units > 83%, S 313
Assessment: The mixture contains components that are only partially eliminated in the sewage treatment plant.

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12.3. BIOACCUMULATIVE POTENTIAL

No bioaccumulation due to the physicochemical properties of the product.
 Octanol/water partition coefficient (Kow): no data available for the product.
 Bioconcentration factor (BCF): no data available for the product.
 Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (CMIT/MIT mixture) (CAS: 55965-84-9)
 Bioconcentration factor BCF: 3.16 (calculated), OECD 117
 Partition coefficient log Pow (HPL method) ≤ 0.71 (n-octanol/water), S 5
 Assessment: Does not accumulate in living organisms.
 Terbutrine (CAS: 886-50-0)
 Bioconcentration factor BCF: 103 (calculated), OECD 117
 Partition coefficient log Pow (HPL method): 3.19 (n-octanol/water), S 1211
 2-octyl-2H-isothiazol-3-one (CAS: 26530-20-1)
 OECD 117 Partition coefficient log Pow (HPL method): 2.92 (n-octanol/water), S 323
 Assessment: Does not accumulate in living organisms..

12.4. MOBILITY IN SOIL

The product is miscible with water. The mobility of the mixture components depends on their hydrophilic and hydrophobic properties as well as on the abiotic and biotic conditions of the soil, including its structure, climatic conditions, season and soil organisms.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

The substances contained in the mixture do not meet the PBT and vPvB criteria.

12.6. ENDOCRINE DISRUPTING PROPERTIES

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. OTHER ADVERSE EFFECTS

Not known.

Section 13. DISPOSAL CONSIDERATIONS

13.1. WASTE TREATMENT METHODS

Dispose of in strict accordance with local official directives. Do not dispose of in the sewage water system. Dispose of the cured products like of concrete waste and concrete sludge. Waste code according to EWC (European Waste Catalogue), depending on the source:

Product:

08 01 20 - aqueous dispersions of paints and varnishes other than those mentioned in 08 01 19 or
 17 01 82 - Wastes not otherwise specified or
 17 09 04 - Mixed construction, renovation and dismantling wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.

Packaging

Empty packaging completely and recycle. Otherwise, dispose of the completely emptied packaging according to waste code EWC:
 15 01 02 - plastic packaging.


Section 14. TRANSPORT INFORMATION

14.1. UN NUMBER OR ID NUMBER -	Not classified as dangerous.
14.2. UN PROPER SHIPPING NAME -	Not classified as dangerous.
14.3. TRANSPORT HAZARD CLASS(ES) -	Not classified as dangerous.
14.4. PACKING GROUP -	Not classified as dangerous.
14.5. ENVIRONMENTAL HAZARDS -	Not classified as dangerous.
14.6. SPECIAL PRECAUTIONS FOR USER -	Not classified as dangerous.
14.7. MARITIME TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS	Not classified as dangerous.

Section 15. REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

- 1) Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency,

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amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments.

- 2) Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006, with amendments.
- 3) Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment is not required.

Section 16. OTHER INFORMATION

Meaning phrases and abbreviations listed in the card:

H301 – Toxic if swallowed
H302 - Harmful if swallowed
H310 – Fatal in contact with skin.
H314 – Causes severe skin burns and eye damage
H317 – May cause an allergic skin reaction
H318 – Causes serious eye damage
H330 – Fatal if inhaled.
H400 – Very toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.
EUH071 – Corrosive to the respiratory tract
Skin Corr. 1A Skin corrosion/irritation, category 1A
Skin Corr. 1C Skin corrosion/irritation, category 1C
Skin Sens. 1A - Skin sensitization, category 1A
Skin Sens. 1B- Skin sensitization, category 1B
Acute Tox. 2 – Acute toxicity, category 2
Acute Tox. 3 – Acute toxicity, category 3
Acute Tox. 4 - Acute toxicity, category 4
Eye Dam. 1 – Serious eye damage/eye irritation, category 1
Aquatic Chronic 1 – Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Acute 1 - Hazardous to the aquatic environment - Chronic Hazard, Category 1

NDS - Maximum concentration in the workplace - the highest allowable concentration weighted average whose impact on employee per 8-hour shift, during the whole period of its activity, it should not cause a change in his state of health and the health of the future generations

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time - weighted average (unless otherwise specified)

NDSch - Maximum momentary concentration

NDSP - Maximum concentration Overhead

SVHC - substances of very high concern

vPvB (substance) very persistent and very bioaccumulative

PBT (substance) Persistent, bioaccumulative and toxic

LD50 - Lethal Dose - dose at which observed the death of 50% of the test animals within a specified time

LC50 - lethal concentration - concentration at which observed the death of 50% of the test animals within a specified period of time

EC50 - effective concentration - the effective concentration of the substance causing the reaction at 50% maximum


BCF - bioconcentration factor (bioconcentration) - the ratio of the concentration of substances in the body to its concentration in water at equilibrium

Main sources of literature and data:

<http://echa.europa.eu>; <http://eur-lex.europa.eu>; <https://isap.sejm.gov.pl>, SDS of mixture ingredients from producers.

Classification Information:

Classification was made by calculation based on the content of hazardous components based on the criteria according to legal acts listed in Section 15.1.

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Information on updating / revision the safety data sheet:

The revision was made in all sections.

Recommendations for the indicated employee training to ensure the protection of human health and the environment:

It is recommended that the personnel who will handle the product receive basic safety training in order to facilitate understanding and interpretation of the safety data sheet and product label.

The information contained in the sheet is based on the level of knowledge concerning the mixture in question at the time specified by the date and is given in good faith. They are provided only as guidelines for safe use, processing, storage, transport and disposal in the event of an unintentional release to the environment and cannot be considered as product quality guarantees. This safety data sheet does not exempt the user of the mixture from complying with applicable legal, administrative and occupational health and safety regulations.