

SAFETY DATA SHEET

Weather Guard Base

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

1.1. Product identifier

Trade name

Weather Guard Base

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

Relevant identified uses of the substance or mixture

Paint

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

FSW Coatings Ltd.

Ballaghanea, Virginia,

A82 N267, Co Cavan,

Ireland.

353 49854 7209

E-mail

info@fsw.ie

Revision

01/12/2023

SDS Version

1.0

1.4. Emergency telephone number

The National Poisons Information Centre (NPIC)

Public: +353 (0) 1 809 2166 (7 days a week, 8am- 10pm)

Healthcare professionals: +353 (0) 1 809 2566 (24 h service)

See also section 4 "First aid measures"

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)

Not applicable.

Signal word

Not applicable.

Hazard statement(s)

Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General

-

Prevention

Avoid release to the environment. (P273)

Response

-

Storage

-

Disposal

Dispose of contents/container in accordance with local regulation (P501)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Hazardous substances

1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one
diuron (ISO);3-(3,4-dichlorophenyl)-1,1-dimethylurea
octhiline (ISO);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)

Additional labelling

EUH211, Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

| Product/substance | Identifiers | % w/w | Classification | Note |
|--|---|---------------|---|------|
| titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | CAS No.: 13463-67-7 EC No.: 236-675-5 REACH: 01-2119489379-17-XXXX Index No.: 022-006-00-2 | 10-15% | Carc. 2, H351 | [17] |
| Calcium carbonate | CAS No.: 1317-65-3 EC No.: 215-279-6 REACH: Index No.: | 5-10% | | [19] |
| Talc (Mg ₃ H ₂ (SiO ₃) ₄) | CAS No.: 14807-96-6 EC No.: 238-877-9 REACH: Index No.: | 3-5% | | |
| 1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one | CAS No.: 2634-33-5 EC No.: 220-120-9 REACH: 01-2120761540-60-XXXX Index No.: 613-088-00-6 | 0.01-0.09% | Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) | |
| Quartz (SiO ₂) | CAS No.: 14808-60-7 EC No.: 238-878-4 REACH: 01-2120770509-45-XXXX Index No.: | 0.001-0.009% | | |
| diuron (ISO);3-(3,4-dichlorophenyl)-1,1-dimethylurea | CAS No.: 330-54-1 EC No.: 206-354-4 REACH: 01-2119517622-45-XXXX Index No.: 006-015-00-9 | 0.001-0.009% | Acute Tox. 4, H302 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) | [4] |
| octhiline (ISO);2-octyl-2H-isothiazol-3-one | CAS No.: 26530-20-1 EC No.: 247-761-7 REACH: 01-2120768921-45-XXXX Index No.: 613-112-00-5 | 0.001-0.009% | EUH071 Acute Tox. 3, H301 (ATE: 125.00 mg/kg) Acute Tox. 3, H311 (ATE: 311.00 mg/kg) Skin Corr. 1, H314 Skin Sens. 1A, H317 (SCL: 0.0015 %) Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) | |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | CAS No.: 55965-84-9 EC No.: 611-341-5 REACH: 01-2120764691-48 Index No.: 613-167-00-5 | 0.001-0.0014% | EUH071 Acute Tox. 3, H301 Acute Tox. 2, H310 Skin Corr. 1C, H314 (SCL: 0.60 %) | |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Skin Irrit. 2, H315 (SCL: 0.06 %)
Skin Sens. 1A, H317 (SCL: 0.0015 %)
Eye Dam. 1, H318 (SCL: 0.60 %)
Eye Irrit. 2, H319 (SCL: 0.06 %)
Acute Tox. 2, H330
Aquatic Acute 1, H400 (M=100)
Aquatic Chronic 1, H410 (M=100)

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[4] Substance is listed in Annex I of the Prior Informed Consent Regulation (PIC, Regulation (EU) 649/2012).

[17] The classification as a carcinogen is not taken into consideration when classifying the product as the product is not delivered in powder form/contains less than 1 % titanium dioxide on particle form with an aerodynamic diameter $\leq 10 \mu\text{m}$ (CLP, Annex VI, note 10).

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

None known.

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

Treat symptomatically.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO₂)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the National Poisons Information Centre (NPIC) on +353 (0) 1 809 256 (24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

No specific requirements

Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

Long term exposure limit (8 hours) (mg/m^3): 10(total inhalable dust) / 4(respirable dust)

Calcium carbonate

Long term exposure limit (8 hours) (mg/m^3): 10(inhalable)/4(respirable)

Talc ($\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$)

Long term exposure limit (8 hours) (mg/m^3): 10(total inhalable dust)/ 0.8(respirable dust)

Quartz (SiO_2)

Long term exposure limit (8 hours) (mg/m^3): 0.1

diuron (ISO);3-(3,4-dichlorophenyl)-1,1-dimethylurea

Long term exposure limit (8 hours) (mg/m^3): 10

2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019).

DNEL

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one

| Duration: | Route of exposure: | DNEL: |
|---|---------------------------|------------------------|
| Long term – Systemic effects - General population | Dermal | 345 µg/kgbw/day |
| Long term – Systemic effects - Workers | Dermal | 966 µg/kgbw/day |
| Long term – Systemic effects - General population | Inhalation | 1.2 mg/m ³ |
| Long term – Systemic effects - Workers | Inhalation | 6.81 mg/m ³ |

diuron (ISO);3-(3,4-dichlorophenyl)-1,1-dimethylurea

| Duration: | Route of exposure: | DNEL: |
|--|---------------------------|-----------------------|
| Long term – Systemic effects - Workers | Dermal | 5.79 mg/kg bw/day |
| Long term – Systemic effects - Workers | Inhalation | 170 µg/m ³ |

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

| Duration: | Route of exposure: | DNEL: |
|--|---------------------------|----------------------|
| Long term – Local effects - General population | Inhalation | 20 µg/m ³ |
| Long term – Local effects - Workers | Inhalation | 20 µg/m ³ |
| Short term – Local effects - General population | Inhalation | 40 µg/m ³ |
| Short term – Local effects - Workers | Inhalation | 40 µg/m ³ |
| Long term – Systemic effects - General population | Oral | 90 µg/kgbw/day |
| Short term – Systemic effects - General population | Oral | 110 µg/kgbw/day |

Talc (Mg₃H₂(SiO₃)₄)

| Duration: | Route of exposure: | DNEL: |
|--|---------------------------|-------------------------|
| Long term – Local effects - General population | Dermal | 2.27 mg/cm ² |
| Long term – Local effects - Workers | Dermal | 4.54 mg/cm ² |
| Long term – Systemic effects - General population | Dermal | 21.6 mg/kg bw/day |
| Long term – Systemic effects - Workers | Dermal | 43.2 mg/kg bw/day |
| Long term – Local effects - General population | Inhalation | 1.8 mg/m ³ |
| Long term – Local effects - Workers | Inhalation | 3.6 mg/m ³ |
| Long term – Systemic effects - General population | Inhalation | 1.08 mg/m ³ |
| Long term – Systemic effects - Workers | Inhalation | 2.16 mg/m ³ |
| Short term – Local effects - General population | Inhalation | 1.8 mg/m ³ |
| Short term – Local effects - Workers | Inhalation | 3.6 mg/m ³ |
| Short term – Systemic effects - General population | Inhalation | 1.08 mg/m ³ |
| Short term – Systemic effects - Workers | Inhalation | 2.16 mg/m ³ |
| Long term – Systemic effects - General population | Oral | 160 mg/kg bw/day |
| Short term – Systemic effects - General population | Oral | 160 mg/kg bw/day |

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| Duration: | Route of exposure: | DNEL: |
|--|---------------------------|-----------------------|
| Long term – Local effects - General population | Inhalation | 28 µg/m ³ |
| Long term – Local effects - Workers | Inhalation | 170 µg/m ³ |

PNEC

1,2-benzisothiazol-3(2H)-one;1,2-benzisothiazolin-3-one

| Route of exposure: | Duration of Exposure: | PNEC: |
|-------------------------------------|------------------------------|--------------|
| Freshwater | | 4.03 µg/L |
| Freshwater sediment | | 49.9 µg/kg |
| Intermittent release (freshwater) | | 1.1 µg/L |
| Intermittent release (marine water) | | 110 ng/L |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| | | |
|--|------------------------------|----------------------|
| Marine water | | 403 ng/L |
| Marine water sediment | | 4.99 µg/kg |
| Sewage treatment plant | | 1.03 mg/L |
| Soil | | 3 mg/kg |
| diuron (ISO);3-(3,4-dichlorophenyl)-1,1-dimethylurea | | |
| Route of exposure: | Duration of Exposure: | PNEC: |
| Freshwater | | 320 ng/L |
| Freshwater sediment | | 51.72 µg/kg |
| Intermittent release (freshwater) | | 220 ng/L |
| Marine water | | 32 ng/L |
| Marine water sediment | | 5.172 µg/kg |
| Sewage treatment plant | | 58 mg/L |
| Soil | | 12 µg/kg |
| octhilineone (ISO);2-octyl-2H-isothiazol-3-one | | |
| Route of exposure: | Duration of Exposure: | PNEC: |
| Freshwater | | 2.2 µg/L |
| Freshwater sediment | | 47.5 µg/kg |
| Intermittent release (freshwater) | | 1.22 µg/L |
| Intermittent release (marine water) | | 122 ng/L |
| Marine water | | 220 ng/L |
| Marine water sediment | | 4.75 µg/kg |
| Soil | | 8.2 µg/kg |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | | |
| Route of exposure: | Duration of Exposure: | PNEC: |
| Freshwater | | 3.39 µg/L |
| Freshwater sediment | | 27 µg/kg |
| Intermittent release (freshwater) | | 3.39 µg/L |
| Intermittent release (marine water) | | 3.39 µg/L |
| Marine water | | 3.39 µg/L |
| Marine water sediment | | 27 µg/kg |
| Sewage treatment plant | | 230 µg/L |
| Soil | | 10 µg/kg |
| Talc (Mg₃H₂(SiO₃)₄) | | |
| Route of exposure: | Duration of Exposure: | PNEC: |
| Air | | 10 mg/m ³ |
| Freshwater | | 597.97 mg/L |
| Freshwater sediment | | 31.33 mg/kg |
| Intermittent release (freshwater) | | 597.97 mg/L |
| Intermittent release (marine water) | | 141.26 mg/L |
| Marine water | | 141.26 mg/L |
| Marine water sediment | | 3.13 mg/kg |

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

| Type | Class | Colour | Standards |
|-----------------------------------|-------|--------|-----------|
| No special when used as intended. | | | |

Skin protection

| Recommended | Type/Category | Standards |
|-----------------------------------|---------------|-----------|
| No special when used as intended. | - | - |

Hand protection

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards |
|----------|----------------------|--------------------------|-------------------------|
| Nitrile | 0,5 | > 480 | EN374-2, EN374-3, EN388 |



Eye protection

| Type | Standards |
|-----------------------------------|-----------|
| Safety glasses with side shields. | EN166 |



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

White, Various colours

Odour / Odour threshold

Faint

pH

8.6

Density (g/cm³)

-

Relative density

1.26

Kinematic viscosity

>0.21 cm²/s (40 °C)

Particle characteristics

Not applicable - product is a liquid

Phase changes

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Melting point/Freezing point (°C)

2

Softening point/range (waxes and pastes) (°C)

Does not apply to liquids.

Boiling point (°C)

42

Vapour pressure

(Weighted average, 23.4 mm Hg) 3.12 kPa (20 °C)

Relative vapour density

7.5

Decomposition temperature (°C)

Stable under normal handling and storage conditions.

Data on fire and explosion hazards

Flash point (°C)

Testing not relevant or not possible due to nature of the product.

Flammability (°C)

Not applicable - the product is not classified as flammable.

Auto-ignition temperature (°C)

Testing not relevant or not possible due to nature of the product.

Lower and upper explosion limit (% v/v)

Testing not relevant or not possible due to the nature of the product.

Solubility

Solubility in water

Partially soluble in cold water

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Evaporation rate (n-butylacetate = 100)

Testing not relevant or not possible due to nature of the product.

VOC (g/L)

10

Other physical and chemical parameters

Volume Solids 32.0% +/- 1.0%. Weight Solids 45.0% +/- 1.0%.

Oxidizing properties

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Test method: OECD 425

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| | |
|--------------------|--|
| Species: | Rat |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | >5000 mg/kg |
| Product/substance | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] |
| Species: | Rabbit |
| Route of exposure: | Dermal |
| Test: | LD50 |
| Result: | >5000 mg/kg |
| Product/substance | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] |
| Species: | Rat |
| Route of exposure: | Inhalation |
| Test: | LC50 (4 hours) |
| Result: | >6.8 mg/L |
| Product/substance | Calcium carbonate |
| Species: | Rat |
| Route of exposure: | Oral |
| Test: | LD50 |
| Result: | >5000 mg/kg |

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Respiratory sensitisation

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

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

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.

11.2. Information on other hazards

Long term effects

None known.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] has been classified by IARC as a group 2B carcinogen.

Talc (Mg₃H₂(SiO₃)₄) has been classified by IARC as a group 3 carcinogen.

Quartz (SiO₂) has been classified by IARC as a group 1 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

| | |
|-------------------|--|
| Product/substance | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] |
| Species: | Fish, Pimephales promelas |

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

| | |
|-------------------|--|
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | >1000 mg/L |
| Product/substance | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] |
| Test method: | OECD 202 |
| Species: | Daphnia, Daphnia magna |
| Duration: | 48 hours |
| Test: | LC50 |
| Result: | >100 mg/L |
| Product/substance | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] |
| Species: | Algae, Pseudokirchneriella subcapitata |
| Duration: | 72 hours |
| Test: | EC50 |
| Result: | 16 mg/L |
| Product/substance | octhiline (ISO);2-octyl-2H-isothiazol-3-one |
| Test method: | OECD 201 |
| Species: | Fish, Scenedesmus subspicatus |
| Duration: | 72 hours |
| Test: | EC50 |
| Result: | 0.084 mg/L |
| Product/substance | octhiline (ISO);2-octyl-2H-isothiazol-3-one |
| Test method: | OECD 202 |
| Species: | Daphnia |
| Duration: | 48 hours |
| Test: | EC50 |
| Result: | 0.42 mg/L |
| Product/substance | octhiline (ISO);2-octyl-2H-isothiazol-3-one |
| Test method: | OECD 201 |
| Species: | Algae |
| Duration: | 72 hours |
| Test: | NOEC |
| Result: | 0.004 mg/L |
| Product/substance | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |
| Test method: | OECD 201 |
| Species: | Fish, Oncorhynchus mykiss |
| Duration: | 96 hours |
| Test: | LC50 |
| Result: | 0.22 mg/L |
| Product/substance | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |
| Test method: | OECD 211 |
| Species: | Daphnia |
| Duration: | 21 days |
| Test: | NOEC |
| Result: | 0.004 mg/L |
| Product/substance | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) |
| Test method: | ISO 10253 2006 |
| Species: | Algae, Skeletonema costatum |
| Duration: | 48 hours |
| Test: | NOEC |
| Result: | 0.00064 mg/L |

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 7 – Carcinogenic

HP 14 – Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

| | 14.1 UN / ID | 14.2 UN proper shipping name | 14.3 Hazard class(es) | 14.4 PG* | 14.5 Env** | Other information: |
|------|-----------------|---------------------------------|--------------------------|-------------|---------------|-----------------------|
| ADR | - | - | - | - | - | - |
| IMDG | - | - | - | - | - | - |
| IATA | - | - | - | - | - | - |

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals (with subsequent amendments).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

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 (CLP).

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).

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

,
 EUH071, Corrosive to the respiratory tract.
 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.
 H351, Suspected of causing cancer.
 H373, May cause damage to organs through prolonged or repeated exposure.
 H400, Very toxic to aquatic life.
 H410, Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 CAS = Chemical Abstracts Service
 CE = Conformité Européenne (European conformity)
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 CSA = Chemical Safety Assessment
 CSR = Chemical Safety Report
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EINECS = European Inventory of Existing Commercial chemical Substances
 ES = Exposure Scenario
 EUH statement = CLP-specific Hazard statement
 EuPCS = European Product Categorisation System
 EWC = European Waste Catalogue
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IARC = International Agency for Research on Cancer (IARC)
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 OECD = Organisation for Economic Co-operation and Development
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
 RRN = REACH Registration Number
 SCL = A specific concentration limit
 SVHC = Substances of Very High Concern
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
 STOT-SE = Specific Target Organ Toxicity - Single Exposure
 TWA = Time weighted average
 UN = United Nations
 UVBC = Unknown or variable composition, complex reaction products or of biological materials
 VOC = Volatile Organic Compound
 vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by
EcoOnline

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IE-en