

CFS-IS / CP 611A

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

GHS08

Signal word (CLP)

Warning

Contains

1,2-Benzisothiazol-3(2H)-on; 2-octyl-2H-isothiazol-3-one; hexaboron dizinc undecaoxide, heptahydrate; Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one ; polypropylene glycol alkyl phenyl ether

Hazard statements (CLP)

H317 - May cause an allergic skin reaction.

H361 - Suspected of damaging the unborn child..

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

P280 - Wear protective gloves, eye protection, protective clothing.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

| Component | |
|--|---|
| 1,2-Benzisothiazol-3(2H)-on (2634-33-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 2-octyl-2H-isothiazol-3-one (26530-20-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| pyrithione zinc (13463-41-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| polypropylene glycol alkyl phenyl ether (9064-13-5) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

| Component | |
|--|---|
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| polypropylene glycol alkyl phenyl ether (9064-13-5) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |

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| Component | |
|--|---|
| 1,2-Benzisothiazol-3(2H)-on (2634-33-5) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| pyrithione zinc (13463-41-7) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| 2-octyl-2H-isothiazol-3-one (26530-20-1) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9) | The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties 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

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|--|---------------|---|
| hexaboron dizinc undecaoxide, heptahydrate | CAS-No.: 138265-88-0 EC-No.: 235-804-2 | 5 – 10 | Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| polypropylene glycol alkyl phenyl ether | CAS-No.: 9064-13-5 EC-No.: 618-605-9 | 2,5 – 5 | Skin Sens. 1B, H317 |
| 1,2-Benzisothiazol-3(2H)-on | CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-60 | 0.01 - <0.036 | Acute Tox. 4 (Oral), H302 (ATE=490 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| pyrithione zinc | CAS-No.: 13463-41-7 EC-No.: 236-671-3 EC Index-No.: 613-333-00-7 REACH-no: 01-2119511196-46 | 0,001 – 0,01 | Acute Tox. 3 (Oral), H301 (ATE=177 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=1 mg/l/4h) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=1 mg/l/4h) Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 1B, H360D STOT RE 1, H372 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=10) |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|----------------|--|
| 2-octyl-2H-isothiazol-3-one | CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5 | 0,001 – 0,01 | Acute Tox. 2 (Inhalation), H330 (ATE=0,27 mg/l) Acute Tox. 3 (Dermal), H311 (ATE=311 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=125 mg/kg bodyweight) 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 |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one | CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5 | 0,0001 – 0,001 | Acute Tox. 3 (Oral), H301 (ATE=66 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0,05 mg/l/4h) 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 |

| Specific concentration limits: | | |
|---|---|--|
| Name | Product identifier | Specific concentration limits |
| 1,2-Benzisothiazol-3(2H)-on | CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 REACH-no: 01-2120761540-60 | (0,036 ≤ C ≤ 100) Skin Sens. 1, H317 |
| 2-octyl-2H-isothiazol-3-one | CAS-No.: 26530-20-1 EC-No.: 247-761-7 EC Index-No.: 613-112-00-5 | (0,0015 ≤ C ≤ 100) Skin Sens. 1A, H317 |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one | CAS-No.: 55965-84-9 EC Index-No.: 613-167-00-5 | (0,0015 ≤ C ≤ 100) Skin Sens. 1A, H317 (0,06 ≤ C < 0,6) Skin Irrit. 2, H315 (0,06 ≤ C < 0,6) Eye Irrit. 2, H319 (0,6 ≤ C ≤ 100) Skin Corr. 1C, H314 (0,6 ≤ C ≤ 100) Eye Dam. 1, H318 |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

Allow affected person to breathe fresh air. Allow the victim to rest.

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| | |
|---------------------------------------|---|
| First-aid measures after skin contact | Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. |
| First-aid measures after eye contact | Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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

| | |
|-------------------------------------|--------------------------------------|
| Symptoms/effects after inhalation | May cause an allergic skin reaction. |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|----------------------------------|
| Hazardous decomposition products in case of fire | Carbon dioxide. Carbon monoxide. |
|--|----------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | Do not enter fire area without proper protective equipment, including respiratory protection. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|---------------------------------|
| Emergency procedures | Evacuate unnecessary personnel. |
|----------------------|---------------------------------|

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | Equip cleanup crew with proper protection. |
| Emergency procedures | Ventilate area. |

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| Methods for cleaning up | On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials. |
|-------------------------|--|

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Storage temperature

5 – 25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information

The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Protective clothing. Safety glasses. Gloves. Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

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| Eye protection | | | |
|----------------|----------------------|-----------------|----------------|
| Type | Field of application | Characteristics | Standard |
| Safety glasses | | | EN 166, EN 170 |

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. ISO 374-1. Wear protective gloves.

| Hand protection | | | | | |
|-------------------|----------------------|------------------|----------------|-------------|------------|
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR) | 1 (> 10 minutes) | >0.4 | | EN ISO 374 |

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-----------------|
| Physical state | Solid |
| Colour | dark grey. |
| Appearance | Pasty. |
| Molecular mass | Not determined |
| Odour | characteristic. |
| Odour threshold | Not determined |
| Melting point | Not applicable |
| Freezing point | Not available |
| Boiling point | Not available |
| Flammability | Non flammable. |
| Lower explosion limit | Not applicable |
| Upper explosion limit | Not applicable |
| Flash point | Not applicable |
| Auto-ignition temperature | Not applicable |
| Decomposition temperature | Not available |
| pH | 8,5 |
| pH solution | Not available |
| Viscosity, kinematic | Not applicable |
| Solubility | Not available |
| Partition coefficient n-octanol/water (Log Kow) | Not available |
| Vapour pressure | Not available |
| Vapour pressure at 50°C | Not available |

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| | |
|---------------------------------|-----------------------|
| Density | 1,4 g/cm ³ |
| Relative density | Not available |
| Relative vapour density at 20°C | Not applicable |
| Particle size | Not available |
| Particle size distribution | Not available |
| Particle shape | Not available |
| Particle aspect ratio | Not available |
| Particle specific surface area | Not available |
| Particle dustiness | Not available |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

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

| | |
|-----------------------------|----------------|
| Acute toxicity (oral) | Not classified |
| Acute toxicity (dermal) | Not classified |
| Acute toxicity (inhalation) | Not classified |

| 1,2-Benzisothiazol-3(2H)-on (2634-33-5) | |
|--|--|
| LD50 oral rat | 490 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) |
| LD50 oral | 670 mg/kg |
| LD50 dermal rat | > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LD50 dermal | 2500 mg/kg |
| 2-octyl-2H-isothiazol-3-one (26530-20-1) | |
| LD50 oral rat | 550 mg/kg (Rat, Literature study, Oral) |

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| 2-octyl-2H-isothiazol-3-one (26530-20-1) | |
|---|---|
| LD50 oral | 355 mg/kg |
| LD50 dermal rabbit | 690 mg/kg bodyweight (Rabbit, Literature study, Dermal) |
| LD50 dermal | 311 mg/kg |
| LC50 Inhalation - Rat | > 2 mg/m ³ (4 h, Rat, Literature study, Inhalation (vapours)) |
| LC50 Inhalation - Rat (Dust/Mist) | 0,586 mg/l/4h |
| pyrithione zinc (13463-41-7) | |
| LD50 oral rat | 177 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 269 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rat | > 2000 mg/kg (Rat; Experimental value) |
| LC50 Inhalation - Rat | 1 mg/l/4h (Rat; Literature study) |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | |
| LD50 oral rat | > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 4,95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s)) |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9) | |
| LD50 oral rat | 66 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Calculated by reference to active substance, Oral, 14 day(s)) |
| LD50 dermal rat | > 141 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | 0,17 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Calculated by reference to active substance, Inhalation (dust), 14 day(s)) |
| polypropylene glycol alkyl phenyl ether (9064-13-5) | |
| LD50 oral rat | > 5000 mg/kg |
| Skin corrosion/irritation | Not classified pH: 8,5 |
| Additional information | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | Not classified pH: 8,5 |
| Additional information | Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Carcinogenicity | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| Reproductive toxicity | Suspected of damaging the unborn child.. |
| STOT-single exposure | Not classified |
| Additional information | Based on available data, the classification criteria are not met |
| STOT-repeated exposure | Not classified |
| Additional information | Based on available data, the classification criteria are not met |

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| pyrithione zinc (13463-41-7) | |
|------------------------------|---|
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |

Aspiration hazard Not classified
 Additional information Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water Harmful to aquatic life with long lasting effects.
 Hazardous to the aquatic environment, short-term (acute) Not classified
 Hazardous to the aquatic environment, long-term (chronic) Harmful to aquatic life with long lasting effects.

| 1,2-Benzisothiazol-3(2H)-on (2634-33-5) | |
|---|--|
| LC50 - Fish [1] | 2,18 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Experimental value, Nominal concentration) |
| EC50 - Crustacea [1] | 0,99 mg/l |
| ErC50 algae | 150 µg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP) |

| 2-octyl-2H-isothiazol-3-one (26530-20-1) | |
|--|---|
| LC50 - Fish [1] | 0,14 mg/l (96 h, Pimephales promelas, Literature study) |
| LC50 - Fish [2] | 0,05 mg/l (96 h, Oncorhynchus mykiss, Literature study) |
| EC50 - Crustacea [1] | 0,18 mg/l (48 h, Daphnia magna, Literature study) |
| EC50 - Crustacea [2] | 0,32 mg/l (48 h, Daphnia magna, Literature study) |
| NOEC chronic fish | 0,012 mg/l |

| pyrithione zinc (13463-41-7) | |
|------------------------------|---|
| LC50 - Fish [1] | 2,6 µg/l (96 h; Pimephales promelas; GLP) |
| LC50 - Fish [2] | 0,4 mg/l (96 h; Cyprinodon variegatus; GLP) |
| EC50 - Crustacea [1] | 0,05 mg/l (48 h; Daphnia magna; GLP) |
| EC50 - Crustacea [2] | 8,2 µg/l (96 h; Daphnia magna; GLP) |
| EC50 96h - Algae [1] | 1,3 µg/l (EPA OPP 122-2, Skeletonema costatum, Static system, Fresh water, Experimental value, GLP) |
| Threshold limit - Algae [1] | 0,067 mg/l (Selenastrum capricornutum) |
| Threshold limit - Algae [2] | 2,4 µg/l (120 h; GLP) |

| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | |
|--|---|
| LC50 - Fish [1] | 169 µg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across) |

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| | |
|---|--|
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | |
| EC50 - Crustacea [1] | 155 – 413 µg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Read-across) |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9) | |
| LC50 - Fish [1] | 0,19 mg/l (EPA OPP 72-1, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 0,007 mg/l (48 h, Acartia tonsa, Salt water, Experimental value, GLP) |
| ErC50 algae | 19,9 µg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Skeletonema costatum, Static system, Salt water, Experimental value, GLP) |
| polypropylene glycol alkyl phenyl ether (9064-13-5) | |
| LC50 - Fish [1] | > 10 – < 100 mg/l Leuciscus idus |
| EC50 - Crustacea [1] | > 100 mg/l Daphnia magna (OECD-Richtlinie 202, Teil 1, statisch) |
| EC50 72h - Algae [1] | > 100 mg/l |
| 12.2. Persistence and degradability | |
| CFS-IS / CP 611A | |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| 1,2-Benzisothiazol-3(2H)-on (2634-33-5) | |
| Persistence and degradability | Not readily biodegradable in water. |
| 2-octyl-2H-isothiazol-3-one (26530-20-1) | |
| Persistence and degradability | Inherently biodegradable. |
| pyrithione zinc (13463-41-7) | |
| Persistence and degradability | Biodegradable in water. No (test)data on mobility of the substance available. |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9) | |
| Persistence and degradability | Not readily biodegradable in water. |
| 12.3. Bioaccumulative potential | |
| CFS-IS / CP 611A | |
| Bioaccumulative potential | Not established. |
| 1,2-Benzisothiazol-3(2H)-on (2634-33-5) | |
| BCF - Fish [1] | 6,62 (Equivalent or similar to OECD 305, 56 day(s), Lepomis macrochirus, Experimental value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | -0,9 – 0,99 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

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| 2-octyl-2H-isothiazol-3-one (26530-20-1) | |
|---|--|
| BCF - Fish [1] | 1280 (67 day(s), Lepomis macrochirus, Flow-through system, Literature study) |
| Partition coefficient n-octanol/water (Log Pow) | 2,45 (Experimental value) |
| Bioaccumulative potential | Potential for bioaccumulation ($500 \leq \text{BCF} \leq 5000$). |
| pyrithione zinc (13463-41-7) | |
| BCF - Other aquatic organisms [1] | 7,87 – 11 (30 days; Crassostrea sp.) |
| Partition coefficient n-octanol/water (Log Pow) | 0,9 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{Log Kow} < 4$). |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | |
| BCF - Fish [1] | 116 – 60960 (21 day(s), Semi-static system, Marine water, Read-across, Fresh weight) |
| Bioaccumulative potential | High potential for bioaccumulation ($\text{BCF} > 5000$). |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9) | |
| BCF - Fish [1] | 41 – 54 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | -0,32 – 0,7 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation ($\text{BCF} < 500$). |
| 12.4. Mobility in soil | |
| 1,2-Benzisothiazol-3(2H)-on (2634-33-5) | |
| Surface tension | 72,6 mN/m (20 °C, 0.1 %, EU Method A.5: Surface tension) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0,97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil | Highly mobile in soil. |
| 2-octyl-2H-isothiazol-3-one (26530-20-1) | |
| Ecology - soil | No (test)data on mobility of the substance available. |
| pyrithione zinc (13463-41-7) | |
| Surface tension | 0,073 N/m (20 °C; 7220 µg/l) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 4,295 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Low potential for mobility in soil. |
| hexaboron dizinc undecaoxide, heptahydrate (138265-88-0) | |
| Surface tension | Data waiving |
| Ecology - soil | Adsorbs into the soil. |
| Mixture of 5-chloro-2-methylisothiazol-3(2H)-one and 2-methylisothiazol-3(2H)-one (55965-84-9) | |
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0,81 – 1 (log Koc, Calculated value) |



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Transport by sea

No data available

Air transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

France

| Occupational diseases | |
|-----------------------|--|
| Code | Description |
| RG 65 | Eczematiform lesions of allergic mechanism |
| RG 66 | Occupational rhinitis and asthma |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|--------------|----------|----------|
| Section | Changed item | Change | Comments |
| 16 | | Modified | |

| Abbreviations and acronyms: | |
|-----------------------------|---|
| CAS-No. | Chemical Abstract Service number |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| ED | Endocrine disrupting properties |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| IOELV | Indicative Occupational Exposure Limit Value |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| N.O.S. | Not Otherwise Specified |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |
| VOC | Volatile Organic Compounds |
| SDS | Safety Data Sheet |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |

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| Abbreviations and acronyms: | |
|-----------------------------|---|
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| PNEC | Predicted No-Effect Concentration |
| PBT | Persistent Bioaccumulative Toxic |
| OEL | Occupational Exposure Limit |
| OECD | Organisation for Economic Co-operation and Development |
| COD | Chemical oxygen demand (COD) |
| ThOD | Theoretical oxygen demand (ThOD) |
| TRGS | Technical Rules for Hazardous Substances |
| TLM | Median Tolerance Limit |
| STP | Sewage treatment plant |

Data sources

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.

Other information

None.

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 2 (Dermal) | Acute toxicity (dermal), Category 2 |
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 |
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| EUH071 | Corrosive to the respiratory tract. |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| 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. |



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| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H360D | May damage the unborn child. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 1 | Specific target organ toxicity – Repeated exposure, Category 1 |

| Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: | | |
|---|------|--------------------|
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 2 | H361 | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

SDS_EU_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.