

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 14/11/2016 Revision date: 23/12/2021 Supersedes version of: 1/02/2021 Version: 4.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Shirlan

Product code : IKF1216 500 SC; IBE 3876
Type of product : SC (Suspension Concentrate)

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

1.2.1. Relevant identified uses

Main use category : Professional use Use of the substance/mixture : Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Certis Belchim B.V.,

Suite 5, 3 Riverside, Granta Park

Great Abington Cambridgeshire, CB21 6AD.

United Kingdom

T 0044 (0)1223 894261 - F 0044 (0)1223 891210 info.uk@certisbelchim.com - www.certisbelchim.com

1.4. Emergency telephone number

Emergency number : +32(0)14584545

24 H/7 days/English/French/German/Dutch

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317
Reproductive toxicity, Category 2 H361d
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1 H410

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

Adverse physicochemical, human health and environmental effects

Harmful if inhaled. Suspected of damaging fertility or the unborn child. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :







GHS07

GHS08

GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

H361d - Suspected of damaging the unborn child. H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.

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P202 - Do not handle until all safety precautions have been read and understood.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves, protective clothing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

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

P391 - Collect spillage.

UK P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as

non-hazardous waste.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH401 - To avoid risks to human health and the environment, comply with the instructions

for use.

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/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

| Component | | |
|--|--|--|
| Fluazinam (ISO) (79622-59-6) | 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 | |
| 1,2-benzisothiazol-3(2H)-one (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 | |

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 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 at a concentration equal to or greater than 0,1 %

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] |
|---|---|---------|---|
| Fluazinam (ISO) | CAS-No.: 79622-59-6 EC-No.: 612-287-00-5 | 25 – 50 | Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Repr. 2, H361d Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) |
| Poly(oxy-1,2-ethanediyl), .alphasulfoomega[2,4,6-tris(1-p henylethyl)phenoxy]-, ammonium salt | CAS-No.: 119432-41-6 | 1 – 5 | Eye Irrit. 2, H319 Aquatic Chronic 3, H412 |
| Quarz (SiO2) | CAS-No.: 14808-60-7 EC-No.: 238-878-4 | < 0,1 | Not classified |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|------------------------------|---|--------|---|
| 1,2-benzisothiazol-3(2H)-one | CAS-No.: 2634-33-5 EC-No.: 220-120-9 EC Index-No.: 613-088-00-6 | < 0,05 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 2 (Inhalation:dust,mist), H330 (ATE=0,05 mg/l/4h) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Comments : Contains :

< 0.1%

Silica, respirable crystalline

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 : Consult a doctor/medical service if you feel unwell.

First-aid measures after inhalation : Respiratory problems: consult a doctor/medical service. Move the affected person to the

fresh air.

First-aid measures after skin contact : Wash skin with mild soap and water. If case of redness or irritation, call a doctor.

First-aid measures after eye contact : Rinse immediately with plenty of water. Do not apply (chemical) neutralizing agents. Consult

an ophtalmologist if irritation persists.

First-aid measures after ingestion : Do not induce vomiting. Do not give an unconscious person anything to drink. Consult a

doctor/medical service if you feel unwell. Rinse mouth out with water.

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

Symptoms/effects after skin contact : May cause an allergic skin reaction.

Symptoms/effects after eye contact : May cause slight irritation.

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 : All extinguishing agents can be used.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic and corrosive vapours may be released. Nitrous fumes. hydrogenchloride.

Hydrofluoric Acid. Carbon oxides (CO, CO2). Sulphur oxides.

5.3. Advice for firefighters

Firefighting instructions : Dilute toxic gases with water spray. Contain the extinguishing fluids by bunding (the product

is hazardous for the environment).

Protection during firefighting : Gloves. Full protective flameproof clothing. Heat/fire exposure: compressed air/oxygen

apparatus. Gas-tight suit.

Other information : Do not dispose of fire-fighting water in the environment.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area

6.1.1. For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Avoid contact with skin and eyes. Avoid breathing vapours.

6.1.2. For emergency responders

Protective equipment : Protective clothing. Protective gloves.

6.2. Environmental precautions

Stop leak if safe to do so. Contain leaking substance, pump over in suitable containers. Do not allow uncontrolled discharge of product into the environment. Do not flush into surface water or sewer system. Contain the spilled material by bunding.

6.3. Methods and material for containment and cleaning up

For containment : Take up liquid spill into absorbent material. Shovel into suitable and closed container for

disposal. Carefully collect remainder.

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not discharge the waste into the drain.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder

separately.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : The floor of the depot should be impermeable and designed to form a water-tight basin.

Storage conditions : Store in a dry, cool area. Protect from heat and direct sunlight. Keep the container

hermetically sealed. Keep out of the reach of children. Keep away from food, drink and

animal feeding stuffs.

Special rules on packaging : Store in original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Quarz (SiO2) (14808-60-7) | |
|--|------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Silica crystaline (Quartz) |
| IOEL TWA | 0,05 mg/m³ (respirable dust) |

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| Quarz (SiO2) (14808-60-7) | | |
|---|---|--|
| Remark | (Year of adoption 2003) (Year of adoption 2003) | |
| Regulatory reference | SCOEL Recommendations SCOEL Recommendations | |
| EU - Binding Occupational Exposure Limit (BOEL) | | |
| Local name | Respirable crystalline silica dust | |
| BOEL TWA | 0,1 mg/m³ (Respirable fraction) | |
| Regulatory reference | DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC) | |

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

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):





8.2.2.1. Eye and face protection

Eye protection:

Safety goggles. Face shield

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374. PVC or other plastic material or natural rubber gloves. Breakthrough time: refer to the recommendations of the supplier

EN (English)

Other skin protection

Materials for protective clothing:

rubber or plastic gloves. Polyvinylchloride (PVC)

8.2.2.3. Respiratory protection

Respiratory protection:

High gas/vapour concentration: gas mask with filter type A

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : light yellow.

Appearance : SC (Suspension Concentrate).

Odour odourless. Odour threshold No data available Melting point Not applicable Freezing point No data available **Boiling point** No data available Flammability Not available Explosive properties Not explosive. Oxidising properties Non oxidizing. Explosive limits : Not available Lower explosion limit : No data available Upper explosion limit : No data available Flash point : Not applicable. Auto-ignition temperature : Not self-igniting Decomposition temperature : No data available рΗ : No data available pH solution 5,4-6,56 (1% w/v)

Viscosity, dynamic : 61,8 − 123 mPa.s (shear rate: 64.5-258/s) (20 °C); 92.8 - 43.8 mPa⋅s (shear rate: 64.5-

258/s) (40 °C)

: Not applicable

Solubility : No data available.

Partition coefficient n-octanol/water (Log Kow) : Not available

Partition coefficient n-octanol/water (Log Pow) : No data available

Vapour pressure : No data available

Vapour pressure at 50 °C : No data available

Density : 1,29 g/cm³ (20 °C); 1.228 g/cm³ (ambient temperature)

Relative density : 1,29 (20 °C) ; 1.228 (ambient temperature)

Relative vapour density at 20 °C : No data available Particle characteristics : Not applicable

9.2. Other information

Viscosity, kinematic

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Additional information : Surface tension : 53,1 mN/m

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

None to our knowledge.

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10.4. Conditions to avoid

Avoid formation of vapours.

10.5. Incompatible materials

None to our knowledge.

Shirlan

Carcinogenicity

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

| 11.1. Information on haza | d classes as defined in Red | gulation (EC) No 1272/2008 |
|---------------------------|-----------------------------|----------------------------|
|---------------------------|-----------------------------|----------------------------|

| Acute toxicity (oral) | : | Not classified (Based on available data, the classification criteria are not met) |
|-----------------------------|---|---|
| Acute toxicity (dermal) | : | Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : | Not classified (Based on available data, the classification criteria are not met) |

| LD50 oral rat | > 2000 mg/kg bodyweight |
|-----------------------------------|--|
| LD50 dermal rat | > 2000 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 1,15 mg/l/4h (OECD 403 method) |
| Skin corrosion/irritation | Not classified (Based on available data, the classification criteria are not met) pH: No data available |
| Additional information | : Not irritating to rabbits on cutaneous application |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met) pH: No data available |
| Additional information | : Slightly irritating to rabbits on ocular application |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Additional information | : Guinea pig |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |

| Fluazinam (ISO) (79622-59-6) | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 1,9 mg/kg bodyweight rat |
| Reproductive toxicity | : Suspected of damaging the unborn child. |

: Not classified (Based on available data, the classification criteria are not met)

| Fluazinam (ISO) (79622-59-6) | |
|------------------------------|---|
| NOAEL (animal/male, F0/P) | 1,5 mg/kg bodyweight rat |
| NOAEL (animal/male, F1) | 7,26 mg/kg rat |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| CTOT reported expensive | Not algorified (Deced on available data the algorification criteria are not mot) |

| Fluorinom (ICO) (70000 F0 C) | |
|------------------------------|---|
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| O TO T Single exposure | . Not blassified (Based of available data, the blassification official are not met) |

| Fluazinam (ISO) (79622-59-6) | | |
|---|---|--|
| NOAEL (oral, rat, 90 days) 4,1 mg/kg bodyweight/day | | |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | | |
| NOAEL (oral, rat, 90 days) | 69 mg/kg bodyweight/day | |
| Aspiration hazard : | Not classified (Based on available data, the classification criteria are not met) | |
| Shirlan | | |
| Viscosity, kinematic | Not applicable | |

11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Very toxic to aquatic life.

(acute)

Hazardous to the aquatic environment, long-term

: Very toxic to aquatic life with long lasting effects.

(chronic)

| Shirlan | |
|------------------------------|--|
| LC50 - Fish [1] | 0,16 mg/l (96H; Oncorhynchus mykiss (Rainbow trout); OECD 203) |
| EC50 - Crustacea [1] | 0,31 mg/l (48H; Daphnia magna; OECD 202) |
| ErC50 algae | > 5,7 mg/l (7 H; Pseudokirchneriella subcapitata; OECD 201) |
| Fluazinam (ISO) (79622-59-6) | |
| NOEC chronic fish | 0,0029 mg/l (278d - Pimephales promelas) |
| NOEC chronic crustacea | 0,0125 mg/l (21d - Daphnia magna) |

12.2. Persistence and degradability

| Fluazinam (ISO) (79622-59-6) | | |
|---|--|--|
| Persistence and degradability Not readily biodegradable. | | |
| Poly(oxy-1,2-ethanediyl), .alphasulfoomega[2,4,6-tris(1-p henylethyl)phenoxy]-, ammonium salt (119432-41-6) | | |
| Biodegradation 0 % (28d) | | |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | | |
| Persistence and degradability Inherently biodegradable. | | |

12.3. Bioaccumulative potential

| Shirlan | |
|--|----------------------------|
| Partition coefficient n-octanol/water (Log Pow) No data available | |
| Fluazinam (ISO) (79622-59-6) | |
| BCF - Fish [1] | 1090 (Lepomis macrochirus) |
| Partition coefficient n-octanol/water (Log Pow) | 4,03 (25 °C; pH 5.5-7) |

12.4. Mobility in soil

| Fluazinam (ISO) (79622-59-6) | |
|--|------|
| Organic Carbon Normalized Adsorption Coefficient | 3,29 |
| (Log Koc) | |

12.5. Results of PBT and vPvB assessment

Shirlan

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

12.6. Endocrine disrupting properties

No additional information available

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations European List of Waste (LoW) code

HP Code

- : Do not dispose of with domestic waste. Remove to an authorized incinerator with energy recovery.
- : Incinerate at a licensed installation. Dispose of in accordance with relevant local regulations.
- : 02 01 08* agrochemical waste containing dangerous substances
- 15 01 10* packaging containing residues of or contaminated by dangerous substances
- HP6 "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
- HP4 "Irritant skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
- HP13 "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.
- HP14 "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|------------------------------------|-------------------------------------|------------------------------------|------------------------------------|
| Special provision(s) applied : 375 | Special provision(s) applied : 969 | Special provision(s) applied : A197 | Special provision(s) applied : 375 | Special provision(s) applied : 375 |
| These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 I or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the | | | | |

| packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. | | | | |
|---|---|--|---|---|
| 14.1. UN number or ID n | umber | | | |
| UN 3082 | UN 3082 | UN 3082 | UN 3082 | UN 3082 |
| 14.2. UN proper shippin | g name | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam) | Environmentally hazardous substance, liquid, n.o.s. (Fluazinam) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam) |
| Transport document descr | iption | | | |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam), 9, III, (- | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Fluazinam), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluazinam), 9, III |
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |
| | ₩ | | | |

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| ADR | IMDG | IATA | ADN | RID |
|------------------------------------|--|------------------------------------|------------------------------------|------------------------------------|
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental haz | zards | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes Marine pollutant: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes | Dangerous for the environment: Yes |

14.6. Special precautions for user

Overland transport

Special provisions (ADR) : 274, 335, 375, 601

Orange plates : 90

3082

EAC code : •3Z

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Classification code (ADN) : M6 Number of blue cones/lights (ADN) : 0

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 REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to 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.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 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 drug precursors)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out Not subject

SECTION 16: Other information

| Indication of changes | | | |
|-----------------------|----------------|----------|----------|
| Section | Changed item | Change | Comments |
| | Revision date | Modified | |
| | Supersedes | Modified | |
| | SDS EU format | Modified | |
| 1.1 | Name | Modified | |
| 1.1 | UFI | Added | |
| 2.2 | EUH-statements | Added | |

| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | |
| BCF | Bioconcentration factor | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| IARC | International Agency for Research on Cancer | |
| IATA | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods | |
| LC50 | Median lethal concentration | |
| LD50 | Median lethal dose | |
| LOAEL | Lowest Observed Adverse Effect Level | |
| NOAEC | No-Observed Adverse Effect Concentration | |
| NOEC | No-Observed Effect Concentration | |
| PBT | Persistent Bioaccumulative Toxic | |
| OECD | Organisation for Economic Co-operation and Development | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| vPvB | Very Persistent and Very Bioaccumulative | |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | |
| ATE | Acute Toxicity Estimate | |
| BLV | Biological limit value | |

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| Abbreviations and acronyms: | |
|-----------------------------|-----------------------------------|
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| EN | European Standard |
| NOAEL | No-Observed Adverse Effect Level |
| OEL | Occupational Exposure Limit |
| PNEC | Predicted No-Effect Concentration |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| ED | Endocrine disrupting properties |

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. SDS of suppliers. ECHA (European Chemicals Agency).

| Full text of H- and EUH-statements: | | |
|-------------------------------------|---|--|
| Acute Tox. 2 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 2 | |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 | |
| 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 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 | |
| EUH066 | Repeated exposure may cause skin dryness or cracking. | |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| H302 | Harmful if swallowed. | |
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H318 | Causes serious eye damage. | |

Safety Data Sheet

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

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H361d | Suspected of damaging the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |

| 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 | H361d | Calculation method |
| Aquatic Acute 1 | H400 | On basis of test data |
| Aquatic Chronic 1 | H410 | Calculation method |

Safety Data Sheet (SDS), EU Certis Belchim

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.