

CFS-CT / CP 670 / CP 673

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Issue date: 14/06/2024

Revision date: 14/06/2024

Supersedes: 24/03/2020

Version: 4.1

SECTION 1: Identification

1.1. GHS Product identifier

| | |
|--------------|--------------------------|
| Product form | Mixture |
| Trade name | CFS-CT / CP 670 / CP 673 |
| Product code | BU Fire Protection |



1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

| | |
|------------------------------|------------------|
| Use of the substance/mixture | Firestop coating |
|------------------------------|------------------|

1.4. Supplier's details

| | |
|--|---|
| Supplier Hilti Qatar W.L.L. Souq Al Rawda Salwa Road P.O. Box 24097 QA Doha Ad Dawḥah Qatar T +974 4406 3600, F +974 4406 3669 QA.info@hilti.com | Department issuing data specification sheet Hilti AG Feldkircherstraße 100 FL 9494 Schaan Liechtenstein T +423 234 2111 product.compliance-fire.protection@hilti.com |
|--|---|

1.5. Emergency phone number

| | |
|------------------|---|
| Emergency number | Emergency CONTACT (24-Hour-Number): GBK GmbH Global Regulatory Compliance +49 (0)6132-84463 +974 4406 3600 |
|------------------|---|

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

| | | |
|--|------|--------------------|
| Reproductive toxicity, Category 2 | H361 | Expert judgement |
| Hazardous to the aquatic environment – Acute Hazard, Category 2 | H401 | Calculation method |
| Hazardous to the aquatic environment – Chronic Hazard Not classified | | Calculation method |
| Full text of H-statements: see section 16 | | |

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2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)



Signal word (GHS UN)

Hazardous ingredients

Hazard statements (GHS UN)

Precautionary statements (GHS UN)

Warning

hexaboron dizinc undecaoxide, heptahydrate; octamethylcyclotetrasiloxane; [D4]

H361 - Suspected of damaging fertility or the unborn child

H401 - Toxic to aquatic life

P273 - Avoid release to the environment.

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

P302+P352 - IF ON SKIN: Wash with plenty of water/....

P318 - IF exposed or concerned, get medical advice.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to the United Nations GHS |
|--|----------------------|-------|---|
| hexaboron dizinc undecaoxide, heptahydrate | CAS-No.: 138265-88-0 | 1 – 5 | Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Reproductive toxicity, Category 2, H361 Hazardous to the aquatic environment – Acute Hazard, Category 1, H400 Hazardous to the aquatic environment – Chronic Hazard, Category 2, H411 |

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

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

First-aid measures after skin contact

Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse.

First-aid measures after eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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4.2. Most important symptoms/effects, acute and delayed

| | |
|---|---|
| Symptoms/effects after inhalation | May cause an allergic skin reaction. |
| Potential adverse human health effects and symptoms | Based on available data, the classification criteria are not met. |

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable 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. Specific hazards arising from the chemical

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

5.3. Special protective actions for fire-fighters

| | |
|--------------------------------|---|
| 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 | Self-contained breathing apparatus. Complete protective clothing. 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 | For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection. |
| Emergency procedures | Ventilate area. |

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and materials 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. |
|-------------------------|--|

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. |
| Hygiene measures | Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 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 container closed when not in use. |
| Incompatible products | Strong bases. Strong acids. |
| Incompatible materials | Sources of ignition. Direct sunlight. |

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Storage temperature 5 – 30 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Other information Do not eat, drink or smoke during use.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

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

Hand protection Wear suitable gloves tested to EN374. Suitable for short-term work or as a splash guard: Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact:

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-------------------|----------------------|-------------------|----------------|-------------|----------|
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | >0,4 | | |

Eye protection Chemical goggles or safety glasses

Skin and body protection Wear suitable protective clothing

Respiratory protection No respiratory protection needed under normal use conditions

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|---|--------------------------------|
| Physical state | Solid |
| Appearance | Pasty |
| Colour | white. |
| Odour | characteristic. |
| Odour threshold | Not determined |
| Melting point | Not applicable |
| Freezing point | Not available |
| Boiling point | Not available |
| Flammability | Not applicable, 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 | 7.5 – 9 |
| pH solution | Not available |
| Viscosity, kinematic (calculated value) (40 °C) | Not applicable |
| Partition coefficient n-octanol/water (Log Kow) | Not available |

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| | |
|---------------------------------|----------------|
| Vapour pressure | Not available |
| Vapour pressure at 50°C | Not available |
| Density | 1.46 kg/l |
| Relative density | Not available |
| Relative vapour density at 20°C | Not applicable |
| Solubility | Not available |
| Particle size | Not available |

9.2. Data relevant with regard to physical hazard classes (supplemental)

| | |
|----------------|----------------|
| Molecular mass | Not determined |
|----------------|----------------|

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

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

| 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)) |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | Not classified pH: 7.5 – 9 |
| Serious eye damage/irritation | Not classified pH: 7.5 – 9 |
| Respiratory or skin sensitisation | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Suspected of damaging fertility or the unborn child. |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |

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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 - general | The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | Toxic to aquatic life. |
| Classification procedure (Hazardous to the aquatic environment, short-term (acute)) | Calculation method |
| Hazardous to the aquatic environment, long-term (chronic) | Not classified. |
| Classification procedure (Hazardous to the aquatic environment, long-term (chronic)) | Calculation method |

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) |
| EC50 - Crustacea [1] | 155 – 413 µg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Read-across) |

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)

| | |
|-------------------------------|-----------------------------------|
| Not rapidly degradable | |
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |
| BOD (% of ThOD) | Not applicable |

12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

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 (BCF > 5000). |

12.4. Mobility in soil

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| | |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |
|------------------|-------------------------------------|

hexaboron dizinc undecaoxide, heptahydrate (138265-88-0)

| | |
|-----------------|------------------------|
| Surface tension | Data waiving |
| Ecology - soil | Adsorbs into the soil. |

12.5. Other adverse effects

| | |
|-------|----------------|
| Ozone | Not classified |
|-------|----------------|



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Other adverse effects

No additional information available

Other information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations.

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecological information

Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

| ADR | IMDG | IATA | RID |
|---|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

Regulatory reference All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

SECTION 16: Other information

| | |
|----------------------------|--|
| Issue date | 6/14/2024 |
| Revision date | 6/14/2024 |
| Supersedes | 3/24/2020 |
| Abbreviations and acronyms | <p>ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>TRGS - Technical Rules for Hazardous Substances</p> <p>VOC - Volatile Organic Compounds</p> <p>vPvB - Very Persistent and Very Bioaccumulative</p> <p>WGK - Water Hazard Class</p> <p>TLV - Threshold Limit Value</p> <p>NOEC - No-Observed Effect Concentration</p> <p>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>ATE - Acute Toxicity Estimate</p> <p>BCF - Bioconcentration factor</p> <p>BLV - Biological limit value</p> <p>BOD - Biochemical oxygen demand (BOD)</p> <p>CAS-No. - Chemical Abstract Service number</p> <p>CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</p> <p>COD - Chemical oxygen demand (COD)</p> <p>DMEL - Derived Minimal Effect level</p> <p>DNEL - Derived-No Effect Level</p> <p>EC-No. - European Community number</p> <p>EC50 - Median effective concentration</p> <p>ED - Endocrine disrupting properties</p> <p>EN - European Standard</p> <p>IARC - International Agency for Research on Cancer</p> <p>IATA - International Air Transport Association</p> <p>IMDG - International Maritime Dangerous Goods</p> <p>IOELV - Indicative Occupational Exposure Limit Value</p> <p>LC50 - Median lethal concentration</p> <p>LD50 - Median lethal dose</p> <p>LOAEL - Lowest Observed Adverse Effect Level</p> <p>NOAEC - No-Observed Adverse Effect Concentration</p> <p>NOAEL - No-Observed Adverse Effect Level</p> <p>N.O.S. - Not Otherwise Specified</p> <p>OECD - Organisation for Economic Co-operation and Development</p> <p>OEL - Occupational Exposure Limit</p> <p>PBT - Persistent Bioaccumulative Toxic</p> <p>PNEC - Predicted No-Effect Concentration</p> <p>REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006</p> <p>RID - Regulations concerning the International Carriage of Dangerous Goods by Rail</p> <p>SDS - Safety Data Sheet</p> <p>STP - Sewage treatment plant</p> <p>ThOD - Theoretical oxygen demand (ThOD)</p> <p>TLM - Median Tolerance Limit</p> |
| Other information | None. |



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| Full text of H-statements: | |
|------------------------------------|---|
| Acute Tox. Not classified (Dermal) | Acute toxicity (dermal) Not classified |
| Acute Tox. Not classified (Oral) | Acute toxicity (oral) Not classified |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| H361 | Suspected of damaging fertility or the unborn child |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |

SDS_UN_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.