

# CFS-CT; CP 670; CP 673; CP 676

## Safety Data Sheet

According to the Singapore standard SS 586-1-2014

Version: 4.0

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Revision date:

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

#### 1.1. Product identifier

Trade name CFS-CT; CP 670; CP 673; CP 676



Generic name CFS-CT\_CP670\_CP673\_CP676

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

No additional information available

#### 1.4. Supplier's details

Hilti Far East Private Ltd.  
No 20 Harbour Drive,  
#06-06/08 PSA Vista  
117612 Singapore - Singapur  
T +65 6777 7887 - F +65 6777 3057  
[sg-customerservice@hilti.com](mailto:sg-customerservice@hilti.com)

#### Supplier

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#### Department issuing data specification sheet

Hilti AG  
Feldkircherstraße 100  
9494 Schaan - Liechtenstein  
T +423 234 2111  
[chemicals.hse@hilti.com](mailto:chemicals.hse@hilti.com)

#### 1.5. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service  
+41 44 251 51 51 (international)  
+65 6777 7887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Health hazards Reproductive toxicity, Category 2

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### 2.2. Label elements

Hazard pictograms (GHS SG)



GHS08

Signal word (GHS SG)

Warning

Hazard statements (GHS SG)

H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements

Prevention

Avoid release to the environment. (P273)

Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

IF ON SKIN: Wash with plenty of water. (P302+P352)

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

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name        | Concentration(%) | Formula       | Product identifier  |
|-------------|------------------|---------------|---|
| Zinc borate | 1 -3             | B6Zn2O11.7H2O | (CAS-No.) 138265-88-0<br>(EC-No.) 604-070-9<br>(EC Index-No.) |

### 4.1. Description of 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).

Inhalation

Allow affected person to breathe fresh air.

Skin contact

Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

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.

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.

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

No additional information available

## 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.

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### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Special Protective actions for the 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 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

For further information refer to section 13. See Heading 8. Exposure controls and personal protection.

## 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              | Wash contaminated clothing before reuse. 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.                                |

### 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.   |

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Monitoring

No additional information available

#### 8.3. Appropriate engineering controls

No additional information available

#### 8.4. Personal protective equipment

Hand protection

Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

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

Eye protection

Chemical goggles or safety glasses

| Type           | Use | Characteristics | Standard       |
|----------------|-----|-----------------|----------------|
| Safety glasses |     |                 | EN 166, EN 170 |

Skin and body protection

Wear suitable protective clothing

Respiratory protection

No respiratory protection needed under normal use conditions



### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|  |                                |
|--|--------------------------------|
| Physical state                             | Solid                          |
| Appearance                                 | Pasty.                         |
| Molecular mass                             | Not determined                 |
| Colour                                     | white.                         |
| Odour                                      | characteristic.                |
| Odour threshold                            | Not determined                 |
| pH   | 7.5 - 9                        |
| Relative evaporation rate (butylacetate=1) | No data available              |
| Melting point                              | Not applicable                 |
| Freezing point                             | No data available              |
| Boiling point                              | No data available              |
| Flash point                                | Not applicable                 |
| Auto-ignition temperature                  | No data available              |
| Decomposition temperature                  | No data available              |
| Flammability (solid, gas)                  | Not applicable, Non flammable. |
| Vapour pressure                            | No data available              |
| Relative vapour density at 20 °C           | No data available              |

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|                      |                   |
|----------------------|-------------------|
| Relative density     | No data available |
| Density              | 1.47 kg/l         |
| Solubility           | No data available |
| Log Pow              | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic   | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Explosive limits     | No data available |

### 9.2. Other information

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

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. Effects on humans

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

### 11.2. Acute toxicity

| CFS-CT; CP 670; CP 673; CP 676 |        |                  |                   |
|--------------------------------|--------|------------------|-------------------|
| Oral                           | Rat    | LD <sub>50</sub> | No data available |
|                                | Mouse  | LD <sub>50</sub> | No data available |
| Inhalation                     | Rat    | LC <sub>50</sub> | No data available |
|                                | Mouse  | LC <sub>50</sub> | No data available |
| Dermal                         | Rabbit | LD <sub>50</sub> | No data available |
|                                | Mouse  | LD <sub>50</sub> | No data available |

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| Zinc borate (138265-88-0)     |        |                  |  |
|-------------------------------|--------|------------------|--|
| Oral                          | Rat    | LD <sub>50</sub> | > 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s))                               |
| Dermal                        | Rabbit | LD <sub>50</sub> | > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s)) |
| Titanium dioxide (13463-67-7) |        |                  |  |
| Oral                          | Rat    | LD <sub>50</sub> | > 5000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))                   |

### 11.3. Skin corrosion/irritation - Description

No data available

### 11.4. Serious eye damage/eye irritation - Description

No data available

### 11.5. Skin or Respiratory sensitization - Description

No data available

### 11.6. Germ cell mutagenicity - Description

No data available

### 11.7. Carcinogenicity - Description

No data available

### 11.8. Reproductive toxicity - Description

No data available

### 11.9. Specific target organ toxicity (single exposure) - Description

No data available

### 11.10. Specific target organ toxicity (repeated exposure) - Description

No data available

### 11.11. Aspiration hazard - Description

No data available

### 11.12. Other health hazard

No data available

## 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)  | Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | Not classified  |
| Other information   | Avoid release to the environment.   |

| Zinc borate (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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|                                      |  |
|--------------------------------------|--|
| EC50 Daphnia 1                       | 155 - 413 µg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Read-across)   |
| <b>Titanium dioxide (13463-67-7)</b> |  |
| LC50 fish 1                          | > 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration) |
| LC50 other aquatic organisms 1       | > 500 mg/l   |
| ErC50 (algae)                        | 61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)         |

### 12.2. Persistence and degradability

|                                       |  |
|---------------------------------------|--|
| <b>CFS-CT; CP 670; CP 673; CP 676</b> |  |
| Persistence and degradability         | Not established.   |
| <b>Ammonia 25% (1336-21-6)</b>        |  |
| Persistence and degradability         | Biodegradable in the soil. Readily biodegradable in water. |
| <b>Zinc borate (138265-88-0)</b>      |  |
| Persistence and degradability         | Biodegradability: not applicable.                          |
| Chemical oxygen demand (COD)          | Not applicable   |
| ThOD                                  | Not applicable   |
| BOD (% of ThOD)                       | Not applicable   |
| <b>Titanium dioxide (13463-67-7)</b>  |  |
| Persistence and degradability         | Biodegradability: not applicable.                          |
| Chemical oxygen demand (COD)          | Not applicable (inorganic)                                 |
| ThOD                                  | Not applicable (inorganic)                                 |

### 12.3. Bioaccumulative potential

|                                       |  |
|---------------------------------------|--|
| <b>CFS-CT; CP 670; CP 673; CP 676</b> |  |
| Bioaccumulative potential             | Not established.   |
| <b>Ammonia 25% (1336-21-6)</b>        |  |
| Bioaccumulative potential             | Not bioaccumulative.   |
| <b>Zinc borate (138265-88-0)</b>      |  |
| 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).                                     |
| <b>Titanium dioxide (13463-67-7)</b>  |  |
| Bioaccumulative potential             | Not bioaccumulative.   |

### 12.4. Mobility in soil

|                                      |  |
|--------------------------------------|--|
| <b>Ammonia 25% (1336-21-6)</b>       |  |
| Ecology - soil                       | No (test)data on mobility of the components available. |
| <b>Zinc borate (138265-88-0)</b>     |  |
| Surface tension                      | Data waiving   |
| Ecology - soil                       | Adsorbs into the soil.                                 |
| <b>Titanium dioxide (13463-67-7)</b> |  |
| Ecology - soil                       | Low potential for mobility in soil.                    |

### 12.5. Results of PBT and vPvB assessment

|                               |   |
|-------------------------------|---|
| <b>Component</b>              |   |
| Ammonia 25% (1336-21-6)       | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Titanium dioxide (13463-67-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Zinc borate (138265-88-0)     | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

|                       |                                     |
|-----------------------|-------------------------------------|
| Ozone                 | Not classified                      |
| Other adverse effects | No additional information available |

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment 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. |

### SECTION 14: Transport information

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

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

#### 14.6. Special precautions for user

##### - Overland transport

##### - Transport by sea

No data available

##### - Air transport

No data available

##### - Rail transport

Carriage prohibited (RID) No

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

### SECTION 15: Regulatory information

#### 15.1. National regulations

No data available

#### 15.2. International Regulations

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

Skin Sens. 1 H317

Full text of H statements : see section 16



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### 15.3. Chemical inventory status

No additional information available

## SECTION 16: Other information

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.

|                           |   |
|---------------------------|---|
| Acute Tox. 1 (Inhalation) | Acute toxicity (inhal.), Category 1                               |
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3                                 |
| 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 |
| Carc. 2                   | Carcinogenicity, Category 2                                       |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1                     |
| Repr. 2                   | Reproductive toxicity, Category 2                                 |
| Skin Corr. 1              | Skin corrosion/irritation, Category 1                             |
| Skin Corr. 1A             | Skin corrosion/irritation, Category 1A                            |
| Skin Sens. 1              | Skin sensitisation, Category 1                                    |
| H301                      | Toxic if swallowed.   |
| H311                      | Toxic in contact with skin.                                       |
| H314                      | Causes severe skin burns and eye damage.                          |
| H317                      | May cause an allergic skin reaction.                              |
| H318                      | Causes serious eye damage.  |
| H330                      | Fatal if inhaled.   |
| H351                      | Suspected of causing cancer.                                      |
| H361d                     | Suspected of damaging the unborn child.                           |
| 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.                  |

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*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.*