

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

## Safety Data Sheet

According to ICOP 2014

Issue date: 16/07/2025

Revision date: 16/7/2025

Supersedes: 25/03/2020

Version: 2.0

### SECTION 1: Identification of the hazardous chemical and of the supplier

#### 1.1. Product identifier

Name

CFS-CT



Generic name

CFS-CT\_CP670\_CP673\_CP676

Product form

Mixture

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

No additional information available

#### 1.4. Supplier details

##### Supplier

Hilti (Malaysia) Sdn. Bhd.  
F-5-A, Sime Darby Brunfield Tower, No. 2, Jalan PJU 1A/7A  
Oasis Square, Oasis Damansara  
47301 Petaling Jaya, Selangor  
Malaysia  
T +60 3 5628 7222  
1800 880 985 toll free - F +60 3 7848 7399  
[myhilti@hilti.com](mailto:myhilti@hilti.com)

##### Department issuing data specification sheet

Hilti AG  
Feldkircherstraße 100  
9494 Schaan  
Liechtenstein  
T +423 234 2111  
[product.compliance-fire.protection@hilti.com](mailto:product.compliance-fire.protection@hilti.com)

#### 1.5. Emergency phone number

Emergency number

GBK GmbH Global Regulatory Compliance  
+49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number	Comment
Malaysia	Malaysia National Poison Centre (NPC) Universiti Sains Malaysia	11800 Penang	+60 (0)4 6536 999 (Mon-Fri 8am-10pm; Sat, Sun & Public Holiday 8am-5pm)	

### SECTION 2: Hazards identification

#### 2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Reproductive toxicity, Category 2

H361

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

## Safety Data Sheet

According to ICOP 2014

### 2.2. Label elements

#### Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY)



Signal word (GHS MY)

Hazard statements (GHS MY)

Precautionary statements (GHS MY)

Warning

H361 - Suspected of damaging fertility or the unborn child

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

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

### 2.3. Other hazards that do not result in classification

No additional information available

## SECTION 3: Composition and information of the ingredients of the hazardous chemical

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)
hexaboron dizinc undecaoxide, heptahydrate	CAS-No.: 138265-88-0	1 – 3	Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Repr. 2, H361d Aquatic Acute 1, H400 Aquatic Chronic 2, H411

## 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.

First-aid measures after eye contact

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse.

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.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation

May cause an allergic skin reaction.

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

No additional information available

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

## Safety Data Sheet

According to ICOP 2014

### 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. Physicochemical hazards arising from the chemical

Hazardous decomposition products in case of fire	Carbon dioxide. Carbon monoxide.
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#### 5.3. Special protective equipment and precautions 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.
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##### 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.
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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.
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.
Storage temperature	5 – 30 °C

### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters

No additional information available

#### Exposure limit values for the other components

Additional information	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.
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# CFS-CT / CP 670 / CP 673 / CP 676

## Safety Data Sheet

According to ICOP 2014

### 8.1.1 Biological monitoring

No additional information available

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures, such as PPE

#### 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:

When used in accordance with the instructions for use, no dust formation is expected. In case of dust formation use respirator with filter: P2

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

Physical state	Solid
Appearance	Pasty.
Colour	white
Odour	characteristic
Odour threshold	Not determined
pH	7.5 – 9
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable, Non flammable.
Explosive limits	No data available
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Auto-ignition temperature	No data available

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

## Safety Data Sheet

According to ICOP 2014

Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Density	1.46 kg/l
Molecular mass	Not determined

### SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	Stable under normal conditions, Not established
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use, Not established
Conditions to avoid	None under recommended storage and handling conditions (see section 7), Direct sunlight, Extremely high or low temperatures
Incompatible materials	Strong acids, Strong bases
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 or irritation	Not classified pH: 7.5 – 9
Serious eye damage or eye irritation	Not classified
Respiratory sensitization	Not classified
Skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (STOT) – single exposure	Not classified
Specific target organ toxicity (STOT) – repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

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.

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

## Safety Data Sheet

According to ICOP 2014

Hazardous to the aquatic environment, long-term (chronic)

Not classified.

Other information

Avoid release to the environment.

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)
BCF - Fish [1]	116 – 60960 (21 day(s), Semi-static system, Marine water, Read-across, Fresh weight)

### 12.2. Persistence and degradability

CFS-CT / CP 670 / CP 673 / CP 676	
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

CFS-CT / CP 670 / CP 673 / CP 676	
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

CFS-CT / CP 670 / CP 673 / CP 676	
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

Other adverse effects

No additional information available

## SECTION 13: Disposal information

### 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 waste information

Avoid release to the environment.

## SECTION 14: Transportation information

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

## Safety Data Sheet

According to ICOP 2014

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
<b>14.1. UN number or ID 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

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

### 14.8. Hazchem or Emergency Action Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health, and environmental regulations specific for the hazardous chemical in question

Regulation	Component/ Mixture
EHS Notification and Registration Scheme	

### 15.2. International agreements

No additional information available

## SECTION 16: Other information

Version	2.0
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# CFS-CT / CP 670 / CP 673 / CP 676

## Safety Data Sheet

According to ICOP 2014

Indication of changes			
Section	Changed item	Change	Comments
			General Update

### Abbreviations and acronyms

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 TRGS - Technical Rules for Hazardous Substances  
 VOC - Volatile Organic Compounds  
 vPvB - Very Persistent and Very Bioaccumulative  
 WGK - Water Hazard Class  
 TLV - Threshold Limit Value  
 NOEC - No-Observed Effect Concentration  
 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)  
 CAS-No. - Chemical Abstract Service number  
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
 COD - Chemical oxygen demand (COD)  
 DMEL - Derived Minimal Effect level  
 DNEL - Derived-No Effect Level  
 EC-No. - European Community number  
 EC50 - Median effective concentration  
 ED - Endocrine disruptor  
 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  
 NOAEC - No-Observed Adverse Effect Concentration  
 NOAEL - No-Observed Adverse Effect Level  
 N.O.S. - Not Otherwise Specified  
 OECD - Organisation for Economic Co-operation and Development  
 OEL - Occupational Exposure Limit  
 PBT - Persistent Bioaccumulative Toxic  
 PNEC - Predicted No-Effect Concentration  
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SDS - Safety Data Sheet  
 STP - Sewage treatment plant  
 ThOD - Theoretical oxygen demand (ThOD)  
 TLM - Median Tolerance Limit  
 None.

### Other information

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



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

## Safety Data Sheet

According to ICOP 2014

Full text of H-statements	
Aquatic Acute Not classified	Hazardous to the aquatic environment – Acute Hazard Not classified
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic Not classified	Hazardous to the aquatic environment – Chronic Hazard Not classified
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
H361	Suspected of damaging fertility or the unborn child
H361d	Suspected of damaging the unborn child
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

SDS\_MY\_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.