

# CFS-T EMC contact paste

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 20.12.2022

Revision date: 20.12.2022

Supersedes version of: 09.10.2020

Version: 5.0

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

#### 1.1. Product identifier

|              |                         |
|--------------|-------------------------|
| Product form | Mixture                 |
| Product name | CFS-T EMC contact paste |
| Product code | BU Fire Protection      |

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

##### 1.2.1. Relevant identified uses

|                                  |                                          |
|----------------------------------|------------------------------------------|
| Industrial/Professional use spec | For professional use only                |
| Function or use category         | Lubricants, Greases and Release Products |

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Hilti Deutschland AG  
Hiltistr. 2  
DE- 86916 Kaufering  
Deutschland  
T +49 8191 90-0 - F +49 8191 90-1122  
[de.kundenservice@hilti.com](mailto:de.kundenservice@hilti.com)

##### Department issuing data specification sheet

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

#### 1.4. Emergency telephone number

|                  |                                                                                                       |
|------------------|-------------------------------------------------------------------------------------------------------|
| Emergency number | Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international) |
|------------------|-------------------------------------------------------------------------------------------------------|

### SECTION 2: Hazards identification

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

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

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

No labelling applicable

#### 2.3. Other hazards

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

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### 3.2. Mixtures

| Name                                                                     | Product identifier                                                                                  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------|
| Aluminium<br>substance with national workplace exposure limit(s)<br>(DE) | CAS-No.: 7429-90-5<br>EC-No.: 231-072-3<br>EC Index-No.: 013-002-00-1<br>REACH-no: 01-2119529243-45 | 25 – 60 | Flam. Sol. 1, H228<br>Water-react. 2, H261                      |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).                                                                                                                                                        |
| First-aid measures after inhalation   | Remove person to fresh air and keep comfortable for breathing. 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 or rash occurs: Get medical advice/attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.                                                                       |
| 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. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion    | Get medical advice/attention. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.                                                                                                                                                                                 |

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

|                  |                                                                                          |
|------------------|------------------------------------------------------------------------------------------|
| Symptoms/effects | Not expected to present a significant hazard under anticipated conditions of normal use. |
|------------------|------------------------------------------------------------------------------------------|

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

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

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

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. Exercise caution when fighting any chemical fire. |
| Protection during firefighting | Self-contained breathing apparatus. 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

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

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Collect spillage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials.

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

Wear personal protective equipment. 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.

Hygiene measures

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

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

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Storage temperature

5 – 25 °C

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

| Aluminium (7429-90-5)                        |                                                                                                                                                                                                                         |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Germany - Biological limit values (TRGS 903) |                                                                                                                                                                                                                         |
| Local name                                   | Aluminium                                                                                                                                                                                                               |
| Biological limit value                       | 50 µg/g creatinine Parameter: Aluminium - Untersuchungsmaterial: U = Urin - Probenahmezeitpunkt: c) bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten - Festlegung/Begründung: 11/2018 DFG |
| Regulatory reference                         | TRGS 903                                                                                                                                                                                                                |

#### 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

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### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No additional information available

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

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

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

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

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

No respiratory protection needed under normal use conditions

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

No additional information available

## SECTION 9: Physical and chemical properties

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

|                 |                 |
|-----------------|-----------------|
| Physical state  | Liquid          |
| Colour          | Grey. Silver.   |
| Appearance      | Pasty.          |
| Molecular mass  | Not determined  |
| Odour           | characteristic. |
| Odour threshold | Not determined  |

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|                                                 |                                |
|-------------------------------------------------|--------------------------------|
| Melting point                                   | Not available                  |
| Freezing point                                  | Not available                  |
| Boiling point                                   | Not available                  |
| Flammability                                    | Not applicable, Non flammable. |
| Explosive limits                                | Not available                  |
| Lower explosion limit                           | Not available                  |
| Upper explosion limit                           | Not available                  |
| Flash point                                     | > 100 °C                       |
| Auto-ignition temperature                       | Not available                  |
| Decomposition temperature                       | Not available                  |
| pH                                              | Not available                  |
| Viscosity, kinematic                            | Not available                  |
| Solubility                                      | insoluble in water.            |
| Partition coefficient n-octanol/water (Log Kow) | Not available                  |
| Vapour pressure                                 | Not available                  |
| Vapour pressure at 50°C                         | Not available                  |
| Density                                         | 1,23 g/cm <sup>3</sup>         |
| Relative density                                | Not available                  |
| Relative vapour density at 20°C                 | Not available                  |
| Particle characteristics                        | Not applicable                 |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

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 hazard classes as defined in Regulation (EC) No 1272/2008

|                               |                                                                  |
|-------------------------------|------------------------------------------------------------------|
| Acute toxicity (oral)         | Not classified                                                   |
| Acute toxicity (dermal)       | Not classified                                                   |
| Acute toxicity (inhalation)   | Not classified                                                   |
| Skin corrosion/irritation     | Not classified                                                   |
| Additional information        | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | Not classified                                                   |

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|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| Additional information            | Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation | Not classified                                                   |
| Additional information            | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity            | Not classified                                                   |
| Additional information            | Based on available data, the classification criteria are not met |
| Carcinogenicity                   | Not classified                                                   |
| Additional information            | Based on available data, the classification criteria are not met |
| Reproductive toxicity             | Not classified                                                   |
| Additional information            | Based on available data, the classification criteria are not met |
| STOT-single exposure              | Not classified                                                   |
| Additional information            | Based on available data, the classification criteria are not met |
| STOT-repeated exposure            | Not classified                                                   |
| Additional information            | Based on available data, the classification criteria are not met |
| Aspiration hazard                 | Not classified                                                   |
| Additional information            | Based on available data, the classification criteria are not met |

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

#### 11.2.2. Other information

|                                                     |                                                                                                         |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Potential adverse human health effects and symptoms | Irritation: severely irritant to eyes, Based on available data, the classification criteria are not met |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------|

## SECTION 12: Ecological information

### 12.1. Toxicity

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

### 12.2. Persistence and degradability

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|-------------------------------|--------------------------------------------------------------------------|
| Persistence and degradability | May cause long-term adverse effects in the environment. Not established. |
| Aluminium (7429-90-5)         |                                                                          |
| 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-T EMC contact paste   |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | Not established.                   |
| Aluminium (7429-90-5)     |                                    |
| Bioaccumulative potential | No bioaccumulation data available. |

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### 12.4. Mobility in soil

| Aluminium (7429-90-5) |                        |
|-----------------------|------------------------|
| Ecology - soil        | Adsorbs into the soil. |

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Ecology - waste materials                  | Avoid release to the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| European List of Waste (LoW) code          | 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils<br>20 01 26* - oil and fat other than those mentioned in 20 01 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| HP Code                                    | HP3 - "Flammable:"<br>– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;<br>– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;<br>– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;<br>– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;<br>– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;<br>– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste. |

## SECTION 14: Transport information

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 |

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| ADR                                    | IMDG                                                      | IATA                              | RID                               |
|----------------------------------------|-----------------------------------------------------------|-----------------------------------|-----------------------------------|
| <b>14.5. Environmental hazards</b>     |                                                           |                                   |                                   |
| Dangerous for the environment: No      | Dangerous for the environment: No<br>Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available |                                                           |                                   |                                   |

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Rail transport

No data available

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

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

##### REACH Annex XIV (Authorisation List)

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

##### REACH Candidate List (SVHC)

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

##### PIC Regulation (Prior Informed Consent)

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

##### POP Regulation (Persistent Organic Pollutants)

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

##### Ozone Regulation (1005/2009)

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

##### Explosives Precursors Regulation (2019/1148)

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

##### Drug Precursors Regulation (273/2004)

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

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK)

WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

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Hazardous Incident Ordinance (12. BImSchV)

Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

Composition/information on ingredients.

| Indication of changes |              |        |                   |
|-----------------------|--------------|--------|-------------------|
| Section               | Changed item | Change | Comments          |
|                       |              |        | Annex II 878/2020 |

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

| Full text of H- and EUH-statements: |                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------|
| Flam. Sol. 1                        | Flammable solids, Category 1                                                           |
| H228                                | Flammable solid.                                                                       |
| H261                                | In contact with water releases flammable gases.                                        |
| Water-react. 2                      | Substances and Mixtures which, in contact with water, emit flammable gases, Category 2 |

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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.