

# CFS-CU, CP 651N

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 10/05/2017

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Version: 2.1

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

### 1.1. Product identifier

Product form Mixture  
Name CFS-CU, CP 651N  
Product code Fire Protection



Product group Trade product

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec Industrial  
For professional use only

#### 1.2.2. Uses advised against

No additional information available

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

Hilti (Gt. Britain) Ltd.  
1 Trafford Wharf Road  
M17 1BY Manchester - Great Britain  
T +44 161 886 1000  
0800 886 100 Toll-free - F +44 161 872 1240  
[gbsales@hilti.com](mailto:gbsales@hilti.com)

#### Supplier

Hilti (Gt. Britain) Ltd.  
1 Trafford Wharf Road  
M17 1BY Manchester - Great Britain  
T +44 161 886 1000  
0800 886 100 Toll-free - F +44 161 872 1240  
[gbsales@hilti.com](mailto:gbsales@hilti.com)

### 1.4. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service  
+41 44 251 51 51 (international)  
+44 161 886 1000  
0800 886 100 Toll-free

| Country        | Organisation/Company   | Address                           | Emergency number |
|----------------|--|-----------------------------------|------------------|
| United Kingdom | National Poisons Information Service (NPIS)<br>City Hospital | Dudley Road<br>B18 7QH Birmingham | 111              |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

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### 2.2. Label elements

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

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name  | Product identifier  | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|---|
| pentaerythritol<br>substance with national workplace exposure limit(s) (GB) | (CAS No) 115-77-5<br>(EC No) 204-104-9<br>(REACH-no) 01-2119473985-20 | 1 - 2.5 | Not classified  |

Full text of H-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   | Assure fresh air breathing. Allow the victim to rest.   |
| First-aid measures after skin contact | 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 immediately with plenty of water. 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 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

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.                     |

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

No additional information available

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**5.3. Advice for firefighters**

|                                |   |
|--------------------------------|---|
| 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 | 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 | 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. Minimize generation of dust. Store away from other materials. |
|-------------------------|--|

**6.4. Reference to other sections**

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. |
|-------------------------------|---|

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

|                    |  |
|--------------------|--|
| Storage conditions | Store in a dry place. Store in a closed container. |
|--------------------|--|

**7.3. Specific end use(s)**

No additional information available

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

| pentaerythritol (115-77-5) |                               |                      |
|----------------------------|-------------------------------|----------------------|
| United Kingdom             | WEL TWA (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup> |
| United Kingdom             | WEL STEL (mg/m <sup>3</sup> ) | 20 mg/m <sup>3</sup> |

**8.2. Exposure controls**

|                               |  |
|-------------------------------|--|
| Personal protective equipment | Not required for normal conditions of use. |
| Skin and body protection      | Wear suitable protective clothing          |



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### SECTION 9: Physical and chemical properties

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

|  |                           |
|--|---------------------------|
| Physical state                             | Solid                     |
| Colour                                     | Colourless.               |
| Odour                                      | characteristic.           |
| Odour threshold                            | No data available         |
| pH   | No data available         |
| Relative evaporation rate (butylacetate=1) | No data available         |
| Melting point                              | No data available         |
| Freezing point                             | No data available         |
| Boiling point                              | No data available         |
| Flash point                                | No data available         |
| Auto-ignition temperature                  | No data available         |
| Decomposition temperature                  | > 150 °C                  |
| Flammability (solid, gas)                  | Non flammable             |
| Vapour pressure                            | No data available         |
| Relative vapour density at 20 °C           | No data available         |
| Relative density                           | No data available         |
| Solubility                                 | insoluble in water.       |
| Log Pow                                    | No data available         |
| Viscosity, kinematic                       | No data available         |
| Viscosity, dynamic                         | No data available         |
| Explosive properties                       | Product is not explosive. |
| 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

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity Not classified

| <b>pentaerythritol (115-77-5)</b> |   |
|-----------------------------------|---|
| LD50 oral rat                     | > 10000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >5110 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rabbit                | > 10000 mg/kg (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)   |
| LC50 inhalation rat (mg/l)        | 16.5 mg/l/4h (Rat; Literature study)  |

Skin corrosion/irritation Not classified

Serious eye damage/irritation Not classified

Respiratory or skin sensitisation Not classified

Germ cell mutagenicity Not classified

Reproductive toxicity Not classified

Specific target organ toxicity (single exposure) Not classified

Specific target organ toxicity (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. Toxicity

| <b>pentaerythritol (115-77-5)</b> |   |
|-----------------------------------|---|
| LC50 fish 1                       | > 100 mg/l (96 h; Oryzias latipes)                |
| EC50 Daphnia 1                    | 600 mg/l (48 h; Daphnia magna; Locomotor effect)  |
| LC50 fish 2                       | > 50000 mg/l (96 h; Cyprinodon variegatus)        |
| EC50 Daphnia 2                    | > 1000 mg/l (48 h; Daphnia magna)                 |
| Threshold limit algae 1           | >= 5000 mg/l (14 days; Selenastrum capricornutum) |
| Threshold limit algae 2           | > 1000 mg/l (72 h; Selenastrum capricornutum)     |

#### 12.2. Persistence and degradability

| <b>CFS-CU, CP 651N</b>            |                                     |
|-----------------------------------|-------------------------------------|
| Persistence and degradability     | Not established.                    |
| <b>pentaerythritol (115-77-5)</b> |                                     |
| Persistence and degradability     | Biodegradable in water.             |
| Biochemical oxygen demand (BOD)   | 0.067 g O <sub>2</sub> /g substance |
| Chemical oxygen demand (COD)      | 1.38 g O <sub>2</sub> /g substance  |
| ThOD                              | 1.41 g O <sub>2</sub> /g substance  |

#### 12.3. Bioaccumulative potential

| <b>CFS-CU, CP 651N</b>            |   |
|-----------------------------------|---|
| Bioaccumulative potential         | Not established.  |
| <b>pentaerythritol (115-77-5)</b> |   |
| BCF fish 1                        | 0.3 - 2.0 (6 weeks; Cyprinus carpio)  |
| Log Pow                           | -1.69 (Experimental value; <0.3; Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 25 °C) |
| Bioaccumulative potential         | Low potential for bioaccumulation (BCF < 500).  |

#### 12.4. Mobility in soil

No additional information available

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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. 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.

Waste disposal recommendations

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

Ecology - waste materials

Avoid release to the environment.

European List of Waste (LoW) code

17 06 04 - insulation materials other than those mentioned in 17 06 01 and 17 06 03

## SECTION 14: Transport information

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

Other information

No supplementary information available

| ADR                                     | IMDG   | IATA                                  | RID                                   |
|---|--|---------------------------------------|---------------------------------------|
| <b>14.1. UN number</b>                  |  |                                       |                                       |
| Not regulated for transport             |  |                                       |                                       |
| <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                        |
| 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>      |  |                                       |                                       |
| Dangerous for the environment :<br>No   | Dangerous for the environment :<br>No<br>Marine pollutant : No | Dangerous for the environment :<br>No | Dangerous for the environment :<br>No |
| 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

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### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 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.

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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*