

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

· **Product identifier**

· **Trade name:**

**Hilti Firestop Foam CFS-F FX  
CP 660**

· **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

· **Application of the substance / the mixture** Construction chemicals

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Hilti (New Zealand) Ltd.  
Unit 1/B 525 Great South Road  
P.O. Box 112-030, Penrose  
Auckland 1061  
New Zealand  
Phone: 0800 444 584  
Fax: 0800 329 445  
Email: servicenz@hilti.com

· **Informing department:**

chemicals.hse@hilti.com  
see section 16

· **Emergency telephone number:**

Hilti (New Zealand) Ltd.  
Phone: 0800 444 584  
Fax: 0800 329 445  
Schweizerisches Toxikologisches Informationszentrum - 24 h Service  
Tel.: 0041 / 44 251 51 51 (international)

## 2 Hazards identification

· **Classification of the substance or mixture**



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

· **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

· **Label elements**

· **GHS label elements** The product is classified and labelled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**



· **Signal word** Danger

· **Hazard-determining components of labelling:**

methylenediphenyl diisocyanate  
diphenylmethane-4,4'-di-isocyanate  
4,4'-diphenylmethanediisocyanate, isomeres and homologues  
ethylenediamine, ethoxylated and proxylated

· **Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P260 Do not breathe vapours.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 In case of inadequate ventilation wear respiratory protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

· **Other hazards**

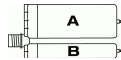
· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

**3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**  
· **Description:**

Mixture consisting of the following components.



Hilti Firestop Foam CFS-F FX (CP 660)

· **Dangerous components:**

· **Dangerous components A:**

26316-40-5	ethylenediamine, ethoxylated and proxylated	☒ Xi R36; ☒ Xi R43 ☒ Eye Irrit. 2A, H319; Skin Sens. 1, H317	1-5%
25214-63-5	ethylenediamine, ethoxylated	☒ Xi R36 ☒ Eye Irrit. 2A, H319	1-5%

· **Dangerous components B:**

9016-87-9	4,4'-diphenylmethanediisocyanate, isomeres and homologues	☒ Xn R20-48/20; ☒ Xn R42/43; ☒ Xi R36/37/38 ☒ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ☒ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
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· **Additional information** For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

· **Description of first aid measures**

· **General information** Instantly remove any clothing soiled by the product.

· **After inhalation**

Take affected persons into the open air and position comfortably  
Seek medical treatment in case of complaints.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly. If skin irritation persist, call a physician.  
If skin irritation continues, consult a doctor.

· **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing** Seek immediate medical advice.

· **Most important symptoms and effects, both acute and delayed** Allergic reactions

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· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** Water spray, carbon dioxide (CO<sub>2</sub>), carbon dioxide blanket, foam, or dry powder.
- **Special hazards arising from the substance or mixture**
  - Can be released in case of fire
  - Carbon monoxide (CO)
  - Carbon dioxide (CO<sub>2</sub>)
  - Nitrogen oxides (NO<sub>x</sub>)
- **Advice for firefighters**
- **Protective equipment:** Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective clothing.
  - Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
  - Particular danger of slipping on leaked/spilled product.
- **Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **Methods and material for containment and cleaning up:**
  - Collect mechanically.
  - Dispose of contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
- **Reference to other sections**
  - See Section 8 for information on personal protection equipment.

### 7 Handling and storage

- **Precautions for safe handling**
  - Provide sufficient air exchange and/or exhaust in work rooms. When using, do not eat, drink or smoke. Ingestion, exposure to skin and eyes and inhalation of any general vapours should be avoided.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Keep packaging securely closed and dry, store at 5 °C to 25 °C.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
  - Store in a locked cabinet or with access restricted to technical experts or their assistants.
  - Store container in a well ventilated position.
  - Protect from heat and direct sunlight.
- **Storage class 10**
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

**9016-87-9 4,4'-diphenylmethanediisocyanate, isomers and homologues**

AGW (Germany)	0,05 E mg/m <sup>3</sup>
	1;=2=(I);DFG, H, Sah, Y, 12

- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
  - The usual precautionary measures should be adhered to general rules for handling chemicals.
  - Do not inhale gases / fumes / aerosols.
  - Wash hands during breaks and at the end of the work.
  - Keep away from foodstuffs, beverages and food.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:**
  - Not necessary if room is well-ventilated.
  - Use breathing protection in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

EN 374

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Synthetic gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed safety glasses.

EN 166 + EN 170

· **Body protection:**



Protective work clothing.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Red
· <b>Odour:</b>	Characteristic

· **Change in condition**

· <b>Melting point/Melting range:</b>	Not determined
· <b>Boiling point/Boiling range:</b>	Not determined

· <b>Flash point:</b>	Not applicable
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· <b>Self-inflammability:</b>	Product is not selfigniting.
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· <b>Danger of explosion:</b>	Product is not explosive.
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· <b>Density</b>	Not determined
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· **Solubility in / Miscibility with**

· <b>Water:</b>	Not miscible or difficult to mix
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· <b>Other information</b>	No further relevant information available.
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## 10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** Reacts with water

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

· **Hazardous decomposition products:** none, if stored and handled correctly.

## 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**9016-87-9 4,4'-diphenylmethanediisocyanate, isomeres and homologues**

Oral	LD50	>5000 mg/kg (rat)
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Inhalative	LC50/4 h	0,49 mg/l (rat)
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**26316-40-5 ethylenediamine, ethoxylated and proxylated**

Oral	LD50	>5000 mg/kg (rat)
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Dermal	LD50	>5000 mg/kg (rat)
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**25214-63-5 ethylenediamine, ethoxylated**

Oral	LD50	>2000 mg/kg (rat)
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Dermal	LD50	>2000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:**  
Sensitization possible by skin contact.  
Sensitization possible by inhalation.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Harmful
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Limited evidence of a carcinogenic effect.  
Carc. 2

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:** Not determined
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water bodies or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

### · European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
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- **Uncleaned packagings:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Dispose of packaging according to regulations on the disposal of packagings.  
Empty packs: May be disposed via the local Green Dot collecting system or EAK waste material code 150102 (plastic packaging materials)

## 14 Transport information

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|--|-----------------|
| · <b>UN-Number</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>UN proper shipping name</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Void            |
| · <b>Packing group</b>   |                 |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>Environmental hazards:</b>  | Not applicable. |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | -               |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

### · New Zealand Inventory of Chemicals

All ingredients are listed.
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- **Chemical safety assessment:** not required.

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**16 Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.  
H351: Suspected of causing cancer.  
H373: May cause damage to organs through prolonged or repeated exposure.

**· Department issuing data specification sheet:**

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Quality/Safety/Environment  
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**· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Carc. 2: Carcinogenicity, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

· \* **Data compared to the previous version altered.**