

# CFS-F FX / CP 660

## Safety information for 2-Component-products

Issue date: 17/10/2022

Revision date: 17/10/2022

Supersedes: 19/12/2017

Version: 6.1

## SECTION 1: Kit identification

### 1.1 Product identifier

Trade name

CFS-F FX / CP 660



Product code

BU Fire Protection

### 1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti (New Zealand) Ltd.  
Level 1, Building B 600 South Road  
Ellerslie  
1051 Auckland - New Zealand  
T +64 9 571 9995  
800 444 584 toll free - F +64 9526 7780  
[servicenz@hilti.com](mailto:servicenz@hilti.com)

## SECTION 2: General information

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

## SECTION 3:

### Classification of the Product

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

ACIN-4	Acute Tox. 4 (Inhalation)
SKCO-2	Skin Irrit. 2
EYDA-2	Eye Irrit. 2
SERE-1	Resp. Sens. 1
SESK-1	Skin Sens. 1
CARC-2	Carc. 2
STRI-3	STOT SE 3
STRE-2	STOT RE 2

#### 2.2. Label elements

Hazard pictograms (GHS NZ)



GHS07

GHS08

Signal word (GHS NZ)

Danger

Contains

4,4'-diphenylmethanediisocyanate, isomeres and homologues; Ethylenediamine, ethoxylated and propoxylated

Hazard statements (GHS NZ)

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

# CFS-F FX / CP 660

## Safety information for 2-Component-products

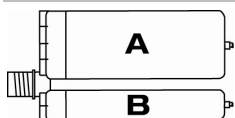
### Precautionary statements (GHS NZ)

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  
P260 - Do not breathe vapours.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P284 - In case of inadequate ventilation wear respiratory protection.  
P302+P352 - IF ON SKIN: Wash with plenty of 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.

### 2.3. Other hazards not contributing to the classification

No additional information available

### Additional information



Name	General description	Quantity	Unit	Classification according to the United Nations GHS
CFS-F FX, A / CP 660, A		1	pcs (pieces)	Skin Sens. 1, H317
CFS-F FX, B / CP 660, B		1	pcs (pieces)	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

## SECTION 4: General advice

General advice

For professional users only

## SECTION 5: Safe handling advice

Environmental precautions

Avoid release to the environment

Storage conditions

Store in a well-ventilated place.  
Keep cool.

Precautions for safe handling

Do not handle until all safety precautions have been read and understood.  
Wear personal protective equipment  
Do not breathe vapours.  
Use only outdoors or in a well-ventilated area.  
Avoid contact with skin and eyes  
In case of inadequate ventilation wear respiratory protection.

Methods for cleaning up

Take up liquid spill into absorbent material  
Notify authorities if product enters sewers or public waters

## SECTION 6: First aid measures

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.

First-aid measures after ingestion

Call a poison center or a doctor if you feel unwell

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.  
Call a poison center or a doctor if you feel unwell

# CFS-F FX / CP 660

## Safety information for 2-Component-products

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First-aid measures after skin contact	Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing.
First-aid measures general	If you feel unwell, seek medical advice (show the label where possible)
Symptoms/effects after eye contact	Eye irritation
Symptoms/effects after inhalation	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	Irritation May cause an allergic skin reaction.
Other medical advice or treatment	Treat symptomatically

### SECTION 7: Fire fighting measures

Protection during firefighting	Self-contained breathing apparatus Complete protective clothing
Hazardous decomposition products in case of fire	Toxic fumes may be released Carbon dioxide Carbon monoxide

### SECTION 8: Other information

No data available

# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Issue date: 17/10/2022

Revision date: 17/10/2022

Supersedes: 04/03/2020

Version: 2.3

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name	CFS-F FX, B / CP 660, B
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 Details of manufacturer or importer

##### Supplier

Hilti (New Zealand) Ltd.  
Level 1, Building B 600 South Road Ellerslie  
Auckland 1051  
New Zealand  
T +64 9 571 9995  
800 444 584 toll free - F +64 9526 7780  
[servicenz@hilti.com](mailto:servicenz@hilti.com)

##### Department issuing data specification sheet

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

#### 1.5. Emergency phone number

Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +64 9 571 9995 800 444 584 toll free
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### SECTION 2: Hazard identification

#### 2.1. Classification of the hazardous chemical

HSNO Approval Number HSR002625

##### Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373

#### 2.2. GHS Label elements, including precautionary statements

##### GHS NZ labelling

Hazard pictograms (GHS NZ)



Signal word (GHS NZ)

Danger

# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Contains	4,4'-diphenylmethanediisocyanate, isomeres and homologues (0 – 100 %); 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (25 – 60 %)
Hazard statements (GHS NZ)	<p>H315 - Causes skin irritation</p> <p>H317 - May cause an allergic skin reaction</p> <p>H319 - Causes serious eye irritation</p> <p>H332 - Harmful if inhaled</p> <p>H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>H335 - May cause respiratory irritation</p> <p>H351 - Suspected of causing cancer</p> <p>H373 - May cause damage to organs through prolonged or repeated exposure</p>
Prevention	<p>P260 - Do not breathe vapours.</p> <p>P280 - Wear eye protection, protective clothing, protective gloves.</p> <p>P284 - In case of inadequate ventilation wear respiratory protection.</p>
Response	<p>P302+P352 - IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER, a doctor.</p>

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

No additional information available

## SECTION 3: Composition and information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	Conc.	Classification according to GHS NZ
4,4'-diphenylmethanediisocyanate, isomeres and homologues	CAS-No.: 9016-87-9	0 – 100	<p>Acute Tox. 4 (Inhalation), H332</p> <p>Skin Irrit. 2, H315</p> <p>Eye Irrit. 2, H319</p> <p>Resp. Sens. 1, H334</p> <p>Skin Sens. 1, H317</p> <p>Carc. 2, H351</p> <p>STOT SE 3, H335</p> <p>STOT RE 2, H373</p>
4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	CAS-No.: 101-68-8	25 – 60	<p>Acute Tox. 4 (Inhalation), H332</p> <p>Skin Irrit. 2, H315</p> <p>Eye Irrit. 2A, H319</p> <p>Resp. Sens. 1, H334</p> <p>Skin Sens. 1, H317</p> <p>Carc. 2, H351</p> <p>STOT SE 3, H335</p> <p>STOT RE 2, H373</p>

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
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.

# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

First-aid measures after ingestion

Call a poison center or a doctor if you feel unwell.

### 4.2. Symptoms caused by exposure

Symptoms/effects after inhalation

May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact

Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact

Eye irritation.

### 4.3. Medical attention and special treatment

Other medical advice or treatment

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media

Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire

Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

#### 6.1.1. For non-emergency personnel

Emergency procedures

Ventilate spillage area. Do not breathe vapours. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment

Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up

Take up liquid spill into absorbent material.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes.

Hygiene measures

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions

Store in a well-ventilated place. Keep cool.

Storage temperature

5 – 25 °C

# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters - exposure standards

No additional information available

#### Exposure limit values for the other components

No additional information available

#### 8.2. Monitoring methods

No additional information available

#### 8.3. Engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

#### 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment

Gloves. Protective clothing. Safety glasses.

Hand protection

Protective gloves. EN 374

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)			EN ISO 374

Eye protection

Chemical goggles or safety glasses. EN 166. EN 170

Type	Field of application	Characteristics	Standard
Safety glasses	Droplet		EN 166, EN 170

Skin and body protection

Wear suitable protective clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Not necessary with sufficient ventilation

Device	Filter type	Condition	Standard
	Type A - High-boiling (>65 °C) organic compounds		

#### Personal protective equipment symbol(s)



Environmental exposure controls

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

Physical state

Liquid

Appearance

No data available

Colour

amber

Odour

characteristic

Odour threshold

No additional information available

pH

No additional information available

Evaporation rate

No additional information available

Relative evaporation rate (butylacetate=1)

No data available

Melting point / Freezing point

Melting point: Not applicable

Boiling point

No data available

Flash point

> 200 °C

Auto-ignition temperature

No data available

Flammability

Not applicable

Vapour pressure

Vapour pressure: 0.1 mbar

Relative density

No additional information available

# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Density	Density: 1.155 kg/l
Solubility	No additional information available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	299.766 mm²/s
Viscosity, dynamic	346.23 mPa.s
Explosive properties	No data available
Explosive limits	No additional information available
Minimum ignition energy	No data available

### 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.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to avoid	None under recommended storage and handling conditions (see section 7).
Incompatible materials	No additional information available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Toxicity

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Harmful if inhaled.

ATE NZ (dust, mist)	1.5 mg/l/4h
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#### 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)

#### 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 Inhalation - Rat	> 0.354 g/m³

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Not classified
STOT-single exposure	May cause respiratory irritation.

#### 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

STOT-single exposure	May cause respiratory irritation.
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#### 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

STOT-single exposure	May cause respiratory irritation.
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STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

#### 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
CFS-F FX, B / CP 660, B	
Viscosity, kinematic	299.766 mm <sup>2</sup> /s

## 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
Hazardous to the aquatic environment, long-term (chronic)	Not classified
Soil toxicity	Not classified
Terrestrial vertebrate toxicity	Not classified
Terrestrial invertebrate toxicity	Not classified

4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)
BCF - Fish [1]	268.1 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	10.46 (Calculated, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)

4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)	
LD50 dermal rabbit	> 9400 mg/kg
LD50 oral rat	> 2000 mg/kg

### 12.2. Persistence and degradability

CFS-F FX, B / CP 660, B	
Persistence and degradability	No additional information available
4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.

### 12.3. Bioaccumulative potential

CFS-F FX, B / CP 660, B	
Bioaccumulative potential	No additional information available
4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
BCF - Fish [1]	268.1 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	10.46 (Calculated, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

CFS-F FX, B / CP 660, B	
Mobility in soil	No additional information available

4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	10.46 (Calculated, KOWWIN)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.

### 12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available

## SECTION 13: Disposal considerations

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.
Additional information	packaging containing residues of or contaminated by dangerous substances. Dispose in a safe manner in accordance with local/national regulations.

## 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
<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

# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

### Air transport

Not applicable

### Rail transport

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

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

#### Hazardous Substances and New Organisms Act

HSNO Approval Number

HSR002625

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Issue date

17/10/2022

Revision date

17/10/2022

Supersedes

04/03/2020

Indication of changes			
Section	Changed item	Change	Comments
			general update

Full text of H-statements	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
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

# CFS-F FX, B / CP 660, B

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

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Full text of H-statements	
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

SDS\_NZ\_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.

# CFS-F FX, A / CP 660, A

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Issue date: 17/10/2022

Revision date: 17/10/2022

Supersedes: 04/03/2020

Version: 2.3

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name	CFS-F FX, A / CP 660, A
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 Details of manufacturer or importer

##### Supplier

Hilti (New Zealand) Ltd.  
Level 1, Building B 600 South Road Ellerslie  
Auckland 1051  
New Zealand  
T +64 9 571 9995  
800 444 584 toll free - F +64 9526 7780  
[servicenz@hilti.com](mailto:servicenz@hilti.com)

##### Department issuing data specification sheet

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

#### 1.5. Emergency phone number

Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +64 9 571 9995 800 444 584 toll free
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### SECTION 2: Hazard identification

#### 2.1. Classification of the hazardous chemical

HSNO Approval Number	HSR002625
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Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Skin sensitisation, Category 1	H317
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#### 2.2. GHS Label elements, including precautionary statements

##### GHS NZ labelling

Hazard pictograms (GHS NZ)



Signal word (GHS NZ)	Warning
Contains	Ethylenediamine, ethoxylated and propoxylated (2,5 - <5 %)
Hazard statements (GHS NZ)	H317 - May cause an allergic skin reaction
Prevention	P280 - Wear eye protection, protective clothing, protective gloves.
Response	P302+P352 - IF ON SKIN: Wash with plenty of water.

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

No additional information available

# CFS-F FX, A / CP 660, A

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

### SECTION 3: Composition and information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc.	Classification according to GHS NZ
Ethylenediamine, propoxylated	CAS-No.: 25214-63-5	2,5 - <5	Eye Irrit. 2, H319
Ethylenediamine, ethoxylated and propoxylated	CAS-No.: 26316-40-5	2,5 - <5	Eye Irrit. 2, H319 Skin Sens. 1, H317

### SECTION 4: First-aid measures

#### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell.

#### 4.2. Symptoms caused by exposure

Symptoms/effects after skin contact	May cause an allergic skin reaction.
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#### 4.3. Medical attention and special treatment

Other medical advice or treatment	Treat symptomatically.
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### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
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#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire	Toxic fumes may be released. Carbon monoxide. Carbon dioxide.
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#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus. Complete protective clothing.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

##### 6.1.1. For non-emergency personnel

Emergency procedures	Ventilate spillage area. Avoid contact with skin and eyes.
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##### 6.1.2. For emergency responders

Protective equipment	For further information refer to section 8: "Exposure controls/personal protection". Use personal protective equipment as required.
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#### 6.2. Environmental precautions

Avoid release to the environment.

# CFS-F FX, A / CP 660, A

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

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

Methods for cleaning up

Take up liquid spill into absorbent material.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions

Store in a well-ventilated place. Keep cool.

Storage temperature

5 – 25 °C

## SECTION 8: Exposure controls and personal protection

### 8.1. Control parameters - exposure standards

No additional information available

#### Exposure limit values for the other components

No additional information available

### 8.2. Monitoring methods

No additional information available

### 8.3. Engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

### 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment

Safety glasses. Protective clothing. Gloves.

Hand protection

Protective gloves. EN 374

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	3 (> 60 minutes)			EN ISO 374

Eye protection

Safety glasses. EN 166. EN 170

Type	Field of application	Characteristics	Standard
Safety glasses			EN 166, EN 170

Skin and body protection

Wear suitable protective clothing

Respiratory protection

Not necessary with sufficient ventilation

Device	Filter type	Condition	Standard
	Type A - High-boiling (>65 °C) organic compounds		

#### Personal protective equipment symbol(s)



Environmental exposure controls

Avoid release to the environment.

# CFS-F FX, A / CP 660, A

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

### SECTION 9: Physical and chemical properties

Physical state	Liquid
Appearance	No data available
Colour	red
Odour	There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Odourless Mild odour Characteristic odour Almost odourless Irritating/pungent odour
Odour threshold	No additional information available
pH	Not determined
Evaporation rate	No additional information available
Relative evaporation rate (butylacetate=1)	No data available
Melting point / Freezing point	Melting point: Not applicable
Boiling point	No data available
Flash point	Not applicable.
Auto-ignition temperature	No data available
Flammability	Not applicable
Vapour pressure	No additional information available
Relative density	No additional information available
Density	Density: $\approx 1.17 \text{ g/cm}^3$
Solubility	No additional information available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Explosive limits	No additional information available
Minimum ignition energy	No data available

### 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.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to avoid	None under recommended storage and handling conditions (see section 7).
Incompatible materials	No additional information available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Toxicity

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified pH: Not determined
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

# CFS-F FX, A / CP 660, A

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

### 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
Hazardous to the aquatic environment, long-term (chronic)	Not classified
Soil toxicity	Not classified
Terrestrial vertebrate toxicity	Not classified
Terrestrial invertebrate toxicity	Not classified

#### 12.2. Persistence and degradability

CFS-F FX, A / CP 660, A	
Persistence and degradability	No additional information available

#### 12.3. Bioaccumulative potential

CFS-F FX, A / CP 660, A	
Bioaccumulative potential	No additional information available

#### 12.4. Mobility in soil

CFS-F FX, A / CP 660, A	
Mobility in soil	No additional information available

#### 12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available

### SECTION 13: Disposal considerations

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.
Additional information	packaging containing residues of or contaminated by dangerous substances. Dispose in a safe manner in accordance with local/national regulations.

### 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

# CFS-F FX, A / CP 660, A

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

ADR	IMDG	IATA	RID
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: No	Dangerous for the environment: No 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 specific for the product in question

#### Hazardous Substances and New Organisms Act

HSNO Approval Number

HSR002625

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Issue date	17/10/2022
Revision date	17/10/2022
Supersedes	04/03/2020

Indication of changes			
Section	Changed item	Change	Comments
			general update

Full text of H-statements	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

SDS\_NZ\_Hilti

# CFS-F FX, A / CP 660, A

## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

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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.