

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

### 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: Kit contents

#### Classification of the Product

##### GHS MX classification

Acute Tox. 4 (Inhalation)	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

#### Label elements

##### GHS MX labelling

Hazard pictograms (GHS MX)



GHS07

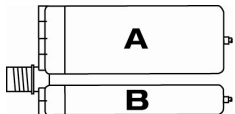
GHS08

# CFS-F FX / CP 660

## Safety information for 2-Component-products

Signal word (GHS MX)	Danger
Hazardous ingredients	4,4'-diphenylmethanediisocyanate, isomeres and homologues; Ethylenediamine, ethoxylated and propoxylated
Hazard statements (GHS MX)	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.
Precautionary statements (GHS MX)	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 doctor, a POISON CENTER.

### Additional information



Name	General description	Quantity	Unit	GHS MX classification
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

# CFS-F FX / CP 660

Safety information for 2-Component-products

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## 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
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 NOM-018-STPS-2015

Revision date: 10/17/2022

Issue date: 10/17/2022 Supersedes: 12/12/2017

Version: 6.1

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

## Safety Data Sheet

According to the NOM-018-STPS-2015

Revision date: 10/17/2022

Issue date: 10/17/2022 Supersedes: 12/12/2017

Version: 6.1

### SECTION 1: Identification of the hazardous chemical or mixture and of the supplier or manufacturer

#### 1.1. GHS product identifier

Product form	Mixture
Trade name	CFS-F FX, B / CP 660, B
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

Use of the substance/mixture Firestop foam

#### 1.4. Supplier's details

##### Supplier

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

##### 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)

#### 1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service  
 +41 44 251 51 51 (international)  
 +60 3 5628 7222  
 1800 880 985 toll free

### SECTION 2: Hazards identification

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

##### GHS MX classification

Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351	Suspected of causing cancer.
Specific target organ toxicity – Single exposure, Category 3,	H335	May cause respiratory irritation.
Respiratory tract irritation		
Specific target organ toxicity – Repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated exposure.

Full text of H-statements: see section 16

#### 2.2. Label elements

##### GHS MX labelling

Hazard pictograms (GHS MX)



Signal word (GHS MX)

Danger

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

## Safety Data Sheet

According to the NOM-018-STPS-2015

Hazard statements (GHS MX)	<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>
Precautionary statements (GHS MX)	<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 In case of inadequate ventilation wear respiratory protection..</p> <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 or doctor.</p>

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

Adverse physicochemical, human health and environmental effects	<p>Suspected of causing cancer,May cause damage to organs through prolonged or repeated exposure,May cause respiratory irritation,Causes skin irritation,May cause an allergic skin reaction,Causes serious eye irritation,May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p>
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## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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

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

## Safety Data Sheet

According to the NOM-018-STPS-2015

### 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.
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell.

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

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

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable 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 dioxide. Carbon monoxide.
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#### 5.3. Special protective actions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus. Complete protective clothing.
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### SECTION 6: Measures to be taken in case of accidental spillage or accidental leakage

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

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

Emergency procedures	Ventilate spillage area. Do not breathe vapours. Avoid contact with skin and eyes.
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##### 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".
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#### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up	Take up liquid spill into absorbent material.
Other information	Dispose of materials or solid residues at an authorized site.

### 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.

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

## Safety Data Sheet

According to the NOM-018-STPS-2015

### 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/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.  
Environmental exposure controls Avoid release to the environment.

### 8.3. 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



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## Safety Data Sheet

According to the NOM-018-STPS-2015

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

Personal protective equipment symbol(s)



## SECTION 9: Physical and chemical properties

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

Physical state	Liquid
Colour	amber
Odour	characteristic
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	> 200 °C
Flammability (solid, gas)	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	0.1 mbar
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.155 kg/l
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, kinematic	299.766 mm <sup>2</sup> /s
Viscosity, dynamic	346.23 mPa.s
Explosive properties	No data available
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

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

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

## Safety Data Sheet

According to the NOM-018-STPS-2015

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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

ATE MX (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/m <sup>3</sup>

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.

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

IARC group	3 - Not classifiable
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#### 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)

IARC group	3 - Not classifiable
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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.

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

## Safety Data Sheet

According to the NOM-018-STPS-2015

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate (101-68-8)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
<b>CFS-F FX, B / CP 660, B</b>	
Viscosity, kinematic	299.766 mm <sup>2</sup> /s

## SECTION 12: Ecological information

### 12.1. Toxicity

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

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)

### 12.2. Persistence and degradability

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
Surface tension	No data available in the literature
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
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# CFS-F FX, B / CP 660, B

## Safety Data Sheet

According to the NOM-018-STPS-2015

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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.
Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.

### 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

##### 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/legislation specific for the substance or mixture

##### National regulations

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

Listed in the INSQ (National Inventory of Chemical Substances)

##### 15.2. International regulations

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

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

## Safety Data Sheet

According to the NOM-018-STPS-2015

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
 Subject to reporting requirements of United States SARA Section 313  
 Listed on the Canadian DSL (Domestic Substances List)  
 Listed on INSQ (Mexican National Inventory of Chemical Substances)

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
 Subject to reporting requirements of United States SARA Section 313  
 Listed on the Canadian DSL (Domestic Substances List)  
 Listed on EPA Hazardous Air Pollutant (HAPS)

## SECTION 16: Other information including those related to the preparation and updating of safety data sheets

SDS Major/Minor	None
Issue date	17/10/2022
Revision date	17/10/2022
Supersedes	12/12/2017

Full text of H-statements	
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.

Indication of changes			
Section	Changed item	Change	Comments
			general update

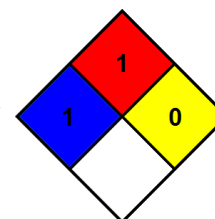
NFPA (National Fire Protection Association)

NFPA fire hazard

NFPA health hazard

NFPA reactivity

1 - Materials that must be preheated before ignition can occur.  
 1 - Materials that, under emergency conditions, can cause significant irritation.  
 0 - Material that in themselves are normally stable, even under fire conditions.



SDS\_MX\_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 NOM-018-STPS-2015

Revision date: 10/17/2022

Issue date: 10/17/2022 Supersedes: 19/12/2017

Version: 6.1

### SECTION 1: Identification of the hazardous chemical or mixture and of the supplier or manufacturer

#### 1.1. GHS product identifier

Product form	Mixture
Trade name	CFS-F FX, A / CP 660, A
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

Use of the substance/mixture Firestop foam

#### 1.4. Supplier's details

##### Supplier

Hilti (Malaysia) Sdn. Bhd.  
F-5-A, Sime Darby Brunsfield Tower, No. 2, Jalan PJU 1A/7A Oasis  
Square, Oasis Damansara  
MY- 47301 Petaling Jaya, Selangor  
Malaysia  
T +60 3 5628 7222  
1800 880 985 toll free - F +60 3 7848 7399

##### Department issuing data specification sheet

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Feldkircherstraße 100  
FL- 9494 Schaan  
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)  
+60 3 5628 7222  
1800 880 985 toll free

### SECTION 2: Hazards identification

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

##### GHS MX classification

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.  
Full text of H-statements: see section 16

#### 2.2. Label elements

##### GHS MX labelling

Hazard pictograms (GHS MX)



Signal word (GHS MX)  
Hazard statements (GHS MX)  
Precautionary statements (GHS MX)

Warning  
H317 - May cause an allergic skin reaction.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.

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

Adverse physicochemical, human health and environmental effects May cause an allergic skin reaction.

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

## Safety Data Sheet

According to the NOM-018-STPS-2015

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS MX classification
Ethylenediamine, propoxylated	CAS-No.: 25214-63-5	2,5 - <5	Eye Irrit. 2A, H319
Ethylenediamine, ethoxylated and propoxylated	CAS-No.: 26316-40-5	2,5 - <5	Eye Irrit. 2A, 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. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact	May cause an allergic skin reaction.
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#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable 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 actions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus. Complete protective clothing.
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### SECTION 6: Measures to be taken in case of accidental spillage or accidental leakage

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

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

Emergency procedures	Ventilate spillage area. Avoid contact with skin and eyes.
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# CFS-F FX, A / CP 660, A

## Safety Data Sheet

According to the NOM-018-STPS-2015

### 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.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up

Take up liquid spill into absorbent material.

Other information

Dispose of materials or solid residues at an authorized site.

## 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/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

Environmental exposure controls

Avoid release to the environment.

### 8.3. 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



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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)



## SECTION 9: Physical and chemical properties

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

Physical state	Liquid
Colour	red
Odour	No data available
Odour threshold	No data available
pH	Not determined
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable.
Flammability (solid, gas)	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	≈ 1.17 g/cm <sup>3</sup>
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available

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Viscosity, dynamic	No data available
Explosive properties	No data available
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

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
	pH: Not determined
Serious eye damage/irritation	Not classified
	pH: Not determined
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

## SECTION 12: Ecological information

### 12.1. Toxicity

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

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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone Not classified

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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.
Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.

## 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>			
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

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### 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

#### National regulations

No additional information available

#### 15.2. International regulations

##### Ethylenediamine, propoxylated (25214-63-5):

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian DSL (Domestic Substances List)

##### Ethylenediamine, ethoxylated and propoxylated (26316-40-5):

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: Other information including those related to the preparation and updating of safety data sheets

SDS Major/Minor	None
Issue date	17/10/2022
Revision date	17/10/2022
Supersedes	19/12/2017

Indication of changes Modified.

Full text of H-statements	
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Indication of changes			
Section	Changed item	Change	Comments
			general update

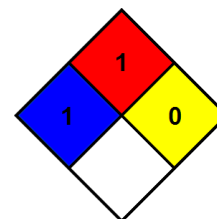
NFPA (National Fire Protection Association)

NFPA fire hazard

NFPA health hazard

NFPA reactivity

1 - Materials that must be preheated before ignition can occur.  
 1 - Materials that, under emergency conditions, can cause significant irritation.  
 0 - Material that in themselves are normally stable, even under fire conditions.



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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.