

Safety Data Sheet

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

Issue date: 22/11/2021 Revision date: Supersedes: Version: 1.0

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1 Product identifier

Trade name CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750 B2 / CF-I 750/B2-SV / CF ISO 750

Product form Mixture

Product code BU Fire Protection Foam

1.2 Other means of identification

No additional information available

1.3 Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.4 Supplier's details

Supplier

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

Department issuing data specification sheet

Hilti AG

Feldkircherstraße 100 9494 Schaan - Liechtenstein

T +423 234 2111

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

HSR002517

Country	Organisation/Company	Address	Emergency number
New Zealand	National Poisons Centre		0800 623 000

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2A Aerosol, Category 1
6.3A Skin corrosion/irritation, Category 2

6.4A Serious eye damage/eye irritation, Category 2 6.5A Respiratory sensitisation, Category 1

6.5B Skin sensitisation, Category 1 6.7B Carcinogenicity, Category 2

Specific target organ toxicity — Repeated exposure, Category 2

9.3C Ecotoxicity to terrestrial vertebrates C

2.2. Label elements

HSNO Approval Number

GHS NZ labelling

6.9B

11/01/2022 NZ - en 1/11



Safety Data Sheet

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

Hazard pictograms (GHS NZ)







Signal word (GHS NZ)

Danger

Contains

4,4'-diphenylmethanediisocyanate, isomeres and homologues (10 – 20 %)

Hazard statements (GHS NZ)

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351 - Suspected of causing cancer.

H222 - Extremely flammable aerosol.

H373 - May cause damage to organs through prolonged or repeated exposure.

H433 - Harmful to terrestrial vertebrates

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Do not pierce or burn, even after use.

P260 - Do not breathe spray.

P280 - Wear eye protection, protective clothing, protective gloves.

Storage P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C

2.3. Other hazards not contributing to the classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

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	10 – 20	6.1D: Acute Tox. 4 (Inhalation:dust,mist), H332 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 6.5A: Resp. Sens. 1, H334 6.5B: Skin Sens. 1, H317 6.7B: Carc. 2, H351 6.1E (Respiratory tract irritant): STOT SE 3, H335 6.9B: STOT RE 2, H373
tris(2-chloro-1-methylethyl) phosphate	(CAS-No.) 13674-84-5	10 – 20	Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302 9.1D: Aquatic Acute 3, H402 9.3C: Ecotoxicity to terrestrial vertebrates C, H433

11/01/2022 NZ - en 2/11



Safety Data Sheet

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

SECTION 4: First aid measures

4.1. Description of 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. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. If experiencing respiratory

symptoms: Call a POISON CENTER/doctor.

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. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see

supplemental first aid instruction on this label). If skin irritation or rash occurs:

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 Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation Danger of serious damage to health by prolonged exposure through inhalation. May cause

allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin

reaction. May cause respiratory irritation.

Symptoms/effects after skin contact Causes skin irritation.

Symptoms/effects after eye contact Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

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

Fire hazard Extremely flammable aerosol.

Explosion hazard Pressurised container: May burst if heated.

Hazardous decomposition products in case of Toxic fumes may be released. Vapours may form explosive mixture with air.

5.3. Special protective equipment and precautions for fire-fighters

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

No additional information available

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.

11/01/2022 NZ - en 3/11



Safety Data Sheet

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

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

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. May form flammable/explosive vapour-air mixture. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation

in process area to prevent formation of vapour. Avoid breathing

dust/fume/gas/mist/vapours/spray.

Hygiene measures Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should

not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container in a cool, well ventilated place away from : Keep container

tightly closed.

Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 – 25 °C

Heat and ignition sources Keep away from heat and direct sunlight. Keep away from ignition sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.

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

Hand protection Wear protective gloves.

11/01/2022 NZ - en 4/11



Safety Data Sheet

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

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	0 (< 10 minutes)			
Reusable gloves	Viton® II	2 (> 30 minutes)			

Eye protection Chemical goggles or safety glasses
Skin and body protection Wear suitable protective clothing

Respiratory protection Not necessary with sufficient ventilation. In case of inadequate ventilation wear respiratory

protection.

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 Aerosol.
Colour Manila

ether-like odour Odour Odour threshold No data available No data available рΗ No data available Evaporation rate Relative evaporation rate (butylacetate=1) No data available Melting point / Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available Flammability (solid, gas) Non flammable.

Vapour pressure Vapour pressure : 5100 hPa

Relative density

Density

Density: 1.049 g/cm³

Solubility

No data available

Partition coefficient n-octanol/water (Log Pow)

Viscosity, kinematic

Viscosity, dynamic

No data available

No data available

No data available

Explosive properties Pressurised container: May burst if heated.

Explosive limits No data available
Minimum ignition energy No data available

SECTION 10: Stability and reactivity

Reactivity Extremely flammable aerosol. Pressurised container: May burst if heated.

11/01/2022 NZ - en 5/11



Safety Data Sheet

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

Chemical stability Not established.

Possibility of hazardous reactions Not established.

Conditions to avoid Direct sunlight. Extremely high or low temperatures.

Incompatible materials Strong acids. Strong bases.

Hazardous decomposition products fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

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)	
tris(2-chloro-1-methylethyl) phosphate (13674-84-5)		
LD50 oral rat	1101 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)	
LD50 oral	1150 – 1750	
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))	
LC50 Inhalation - Rat	> 5 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))	

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 Not classified

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.
OTOT Topodica exposure	may cause damage to organis unough protonged of repeated exposure.

Aspiration hazard	Not classified

CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750 B2 / CF-I 750/B2-SV / CF ISO 750		
Vaporizer	Aerosol	
Viscosity, kinematic		

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-

term (acute)

Not classified

Hazardous to the aquatic environment, long-

term (chronic)

Not classified

Soil toxicity Not classified

11/01/2022 NZ - en 6/11



Safety Data Sheet

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

Terrestrial vertebrate toxicity Harmful to terrestrial vertebrates.

Terrestrial invertebrate toxicity Not classified

4,4'-diphenylmethanediisocyanate, isome	res and homologues (9016-87-9)
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)
BCF - Fish [1]	1 (Pisces, Literature study)
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)
tris(2-chloro-1-methylethyl) phosphate (13	674-84-5)
LC50 - Fish [1]	51 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	131 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	82 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
ErC50 algae	82 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
BCF - Fish [1]	0.8 – 2.8 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Pisces, Flow-through system, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	2.68 (Experimental value, Equivalent or similar to OECD 117)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.24 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Read-across)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LD50 oral rat	1101 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)

12.2. Persistence and degradability

- I or		
CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750 B2 / CF-I 750/B2-SV / CF ISO 750		
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.	
tris(2-chloro-1-methylethyl) phosphate (13674-84-5)		
Persistence and degradability	Not readily biodegradable in water.	

12.3. Bioaccumulative potential

CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750 B2 / CF-I 750/B2-SV / CF ISO 750		
Bioaccumulative potential	No additional information available	
4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)		
BCF - Fish [1]	1 (Pisces, Literature study)	
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)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

11/01/2022 NZ - en 7/11



Safety Data Sheet

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

tris(2-chloro-1-methylethyl) phosphate (13674-84-5)		
BCF - Fish [1]	0.8 – 2.8 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Pisces, Flow-through system, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	2.68 (Experimental value, Equivalent or similar to OECD 117)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.24 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Read-across)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. Mobility in soil

CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750 B2 / CF-I 750/B2-SV / CF ISO 750			
Mobility in soil	No additional information available		
4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)			
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.		
tris(2-chloro-1-methylethyl) phosphate (13674-84-5)			
Surface tension	No data available in the literature		
Partition coefficient n-octanol/water (Log Pow)	2.68 (Experimental value, Equivalent or similar to OECD 117)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.24 (log Koc, OECD 106: Adsorption/Desorption Using a Batch Equilibrium Method, Read- across)		
Ecology - soil	Low potential for adsorption in 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. Dispose of contents/container to hazardous or special waste collection point, in accordance with local,

regional, national and/or international regulation.

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID	
14.1. UN number or ID number					
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950	
14.2. UN proper shipping name					
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS	
Transport document description					
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1	
14.3. Transport hazard class(es)					
2.1	2.1	2.1	2.1	2.1	

11/01/2022 NZ - en 8/11



Safety Data Sheet

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

ADR	IMDG	IATA	ADN	RID
2	2	2	2	2
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental ha	nzards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary informat	ion available	•		

14.6. Special precautions for user

Overland transport

Classification code (ADR) 5F

Special provisions (ADR) 190, 327, 344, 625

Limited quantities (ADR)

Packing instructions (ADR) P207, LP02
Mixed packing provisions (ADR) MP9
Transport category (ADR) 2
Tunnel restriction code (ADR) D

Transport by sea

Special provisions (IMDG) 63, 190, 277, 327, 344, 959

Limited quantities (IMDG) SP277
Packing instructions (IMDG) P207, LP02
EmS-No. (Fire) F-D
EmS-No. (Spillage) S-U
Stowage category (IMDG) None
MFAG-No 126

Air transport

PCA packing instructions (IATA) 203
PCA max net quantity (IATA) 75kg
CAO packing instructions (IATA) 203

Special provisions (IATA) A145, A167, A802

Inland waterway transport

Classification code (ADN) 5F

Special provisions (ADN) 19, 327, 344, 625

Limited quantities (ADN)1 LExcepted quantities (ADN)E0Equipment required (ADN)PP, EX, AVentilation (ADN)VE01, VE04

Number of blue cones/lights (ADN)

Rail transport

Special provisions (RID) 190, 327, 344, 625

Limited quantities (RID) 1L

Packing instructions (RID) P207, LP02

11/01/2022 NZ - en 9/11



Safety Data Sheet

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

Hazardous Substances and New Organisms Act

HSNO Approval Number HSR002517

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Issue date 22/11/2021

Full text of H-statements:

2.1.2A: Aerosol 1	2.1.2A: Aerosol, Category 1
6.1D: Acute Tox. 4 (Inhalation:dust,mist)	6.1D: Acute toxicity (inhalation:dust,mist) Category 4
6.1D: Acute Tox. 4 (Oral)	6.1D: Acute toxicity (oral), Category 4
6.1E (Respiratory tract irritant) : STOT SE 3	6.1E (Respiratory tract irritant): Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
6.3A: Skin Irrit. 2	6.3A: Skin corrosion/irritation, Category 2
6.4A: Eye Irrit. 2	6.4A: Serious eye damage/eye irritation, Category 2
6.5A: Resp. Sens. 1	6.5A: Respiratory sensitisation, Category 1
6.5B: Skin Sens. 1	6.5B: Skin sensitisation, Category 1
6.7B: Carc. 2	6.7B: Carcinogenicity, Category 2
6.9B: STOT RE 2	6.9B: Specific target organ toxicity — Repeated exposure, Category 2
9.1D: Aquatic Acute 3	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 3
9.3C: Ecotoxicity to terrestrial vertebrates C	9.3C: Ecotoxicity to terrestrial vertebrates C
Flam. Liq. Not classified	Flammable liquids Not classified
H222	Extremely flammable aerosol.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

11/01/2022 NZ - en 10/11



Safety Data Sheet

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

	T
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.
H402	Harmful to aquatic life
H433	Harmful to terrestrial vertebrates

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.

11/01/2022 NZ - en 11/11