

Hilti CF-F 750 Filling Foam Submission Folder

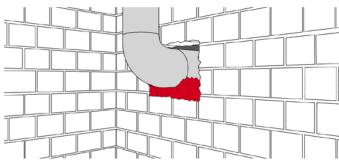
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Filling foam CF-F 750





APPLICATIONS

- Gaps and cracks •
- Drywall voids •
- Electrical voids •
- Backfilling for sealants •
- Holes left by concrete forms •
- Mechanical gaps •

ADVANTAGES

- Easy to use finger dispensing •
- High adhesive strength •
- Restricts air infiltration •
- High yield •

| Technical data | |
|--|------------------------|
| Chemical basis | Polyurethane |
| Content per can/cartridge | 750 ml |
| Foam yield (up to) | 34 I |
| Approx. cut time (at 23°C / 50% rel. humidity) | 30 min |
| Min. time before loadbearing | Approx. 3-5 h |
| Temperature resistance range | -40 - 80 °C |
| Storage and transportation temperature range | 5 - 25 °C |
| Thermal conductivity (λ approx. value) | 0.04 W/mK |
| Shelf life ¹⁾ | 12 Months |
| ¹⁾ at 77°F/25°C and 50% relative humidity; fr | om date of manufacture |

at 77°F/25°C and 50% relative humidity; from date of manufa



Order Now

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| | Sales pack quantity | Item number |
|----------|------------------------|-------------|
| CF-F 750 | 1 pc | 369811 |

Please visit Hilti website for the latest item numbers and related products



Hilti CF-F750 Single Component Filling Foam For Wall Tie Hole or Any Filling Applications

| M | ethod Statement: | |
|----|---|--|
| 1. | Clean the hole by using a brush if necessary. | |
| 2. | Close the end of the hole (by using wooden cork, foam board, etc) for better control if necessary. | |
| 3. | Use a fine water spray to pre-moisten the hole, however, avoid the formation of large water droplets on the surface. | |
| 4. | Shake the can thoroughly before use (approx. 3 – 5 times). | |
| 5. | Fit the finger adaptor and hold the can upside down (valve underneath) when applying the foam. | |
| 6. | Start injecting the foam from the bottom of the hole to ensure complete filling. The foam should be moistened between layers when filling the holes. | |
| 7. | Wait for the cure of the foam (Approx. 30minutes) and cut the excess material. | |

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MateriaLab

Client Ref. :

Report No. : 154693ST160085

Page 1 of 2

REPORT ON RESISTANCE TO AIR AND WATER PENETRATION OF EXPANDING FOAM

Information Supplied by Client

| Client | : Hilti (HK) Ltd. |
|--------------------|---------------------------------|
| Project | : Testing of Expanding Foam |
| Sample Description | : "HILTI" Filling Foam CF-F 750 |

Laboratory Information

| Eaboratory miormatio | _ | |
|--------------------------|---|---|
| Lab. Sample I.D. | : | ST160085/1-3 |
| Address of Test Location | : | DD111, Lot 3028, Wang Toi Shan Village, Pat Heung, Kam Tin, N.T. |
| Date Received | : | 28 April 2016 |
| Date Test Started | : | 26 May 2016 |
| Date Test Completed | | 30 May 2016 |
| Test Size | • | 1200 x 1200 mm x 70mm thk concrete wall with six numbers of 20mmØ hole filled with "HILTI" filling foam CF-F750 |
| Test Method | : | Ref. to BS 4315 : Part 2 : 1970, Method C |
| Test Procedure | : | The water flow in the spraying system during test was no less than 0.5 L/min. $x = 1.44m^2 = 0.72L/min.m^2$. |
| | | At the same time wind pressure of 360Pa was applied to the test specimen. |
| | | The test was continued for 2 days with daily test period of 6 hours. |
| | | Inspection was carried out to identify the penetration of water on the test specimen after the completion of each test period. |
| Test Equipment | : | The test pressure was supplied by a centrifugal fan. The water pressure of the spraying system was supplied by a high-pressure water pump. The adjustment of water flow was controlled by a valve and a flow monitoring device. |
| | | |

Test Results

During the 1st test period : After 6-hours of water spraying, no water penetration was observed on the expanding foam.

During the 2nd test period :

After 6-hours of water spraying, no water penetration was observed on the expanding foam.

Remarks :

- 1.) The test results relate only to the sample tested.
- 2.) The test sample, test configuration and sample after test are shown in the photographs on page 2 of this report.

| Checked by : | ź | _Date : _ | 30 JUN 2016 Certified by : | | Date : _ | 3 O JUN 2016 |
|--------------|---|-----------|----------------------------|--------------------|----------|--------------|
| | | | | Chan Chun Wai Ivar | ו | |

Manager (Product Testing Laboratory)

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Page 2 of 2

Client Ref. : --Report No. : 154693ST160085



Test Sample Sample I.D.: ST160085/1-3

In triling fram UF-F 750 Substitut Instructions: • Before handling, read the poor Autom Instructions: • Poor Autom Instructions: • The volume of foam dispensed and the poor Autom Instruction: • Poor Autom Instruction: • Commended storage and the poor Autom Instruction: • Ensure sufficient venblation when weight in the poor Autom Instruction: • Ensure sufficient venblation when weight in the poor Autom Instruction: • Ensure sufficient venblation when weight in the poor Autom Instruction: • Ensure sufficient venblation when weight in the poor Autom Instruction: • The pool is not for general but only problemation

Test Sample Sample I.D.: ST160085/1-3





Sample After Test Sample I.D.: ST160085/1-3

Test Configuration Sample I.D.: ST160085/1-3 The copyright of this document is owned by Fugro Technical Services Limited. It may not be reproduced except with prior written approval from the Company.

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Client Ref. :

Report No. : 154693ST160085(2)

Page 1 of 2

REPORT ON INSPECTION OF THE ADHESIVE CONDITION OF CEMENT (1:3:CEMENT:SAND) APPLIED TO THE EXPANDING FOAM

Information Supplied by Client

| Client | : Hilti (HK) Ltd. |
|--------------------|---------------------------------|
| Project | : Testing of Expanding Foam |
| Sample Description | : "HILTI" Filling Foam CF-F 750 |

Laboratory Information

| Lab. Sample I.D. | : | ST160085/1-3 |
|--------------------------|---|--|
| Address of Test Location | : | DD111, Lot 3028, Wang Toi Shan Village, Pat Heung, Kam Tin, N.T. |
| Date Received | : | 28 April 2016 |
| Date Test Started | : | 31 May 2016 |
| Date Test Completed | | 01 June 2016 |
| Test Size | : | 1200 x 1200 mm x 70mm thk concrete wall with six numbers of 20mmØ hole |
| | | filled with "HILTI" filling foam CF-F750 |

Test Results

| Lab. Sample I.D. | Test Time (day) | Observation |
|------------------|--------------------|------------------------------|
| ST160085/1 | 1 | No detachment of cement sand |
| ST160085/2 | 1 | No detachment of cement sand |
| ST160085/3 | 1 | No detachment of cement sand |

Remarks :

- 1.) The test results relate only to the sample tested.
- 2.) The sample after test are shown in the photographs on page 2 of this report.

| Checked by : _ | i | _ Date : <u>3 0 JUN 2016</u> | Certified by : | hram | Date : | 3 O JUN 2016 |
|----------------|---|------------------------------|----------------|---------------------|-------------|--------------|
| | | | | Chan Chun Wai Iva | an – | |
| | | | | Manager (Product Te | esting Labo | oratory) |

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Client Ref. : --Report No. : 154693ST160085(2)



Sample After Test Sample I.D.: ST160085/1-3

** End of Report **

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| Attn. | : To whom it may concern |
|-------|--------------------------|
|-------|--------------------------|

 Date
 : 19 October 2023

 Ref.
 : 164/FP/RY/23

Subject : Country of Origin - Hilti CF-F 750 Filling Foam

Dear Sir / Madam,

Enclosed please find the information of Hilti CF-F 750 Filling Foam.

| Brand Name | : Hilti |
|-------------------------|--|
| Model Name | : Hilti CF-F 750 Filling Foam |
| Manufacturer | : Hilti Corporation |
| Address of Manufacturer | : FL-9494, Principality of Liechtenstein. |
| Supplier | : Hilti (Hong Kong) Ltd |
| Address of Supplier | : 701-704, 7/F, Tower A, Manulife Financial Centre, 223 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong |
| Country of Origin | : Estonia |

Should you have further questions, please do not hesitate to contact our Technical Representatives, Customer Service Hotline at 8228-8118, or email us at hksales@hilti.com.

Yours faithfully,

Dennis Yeung Head of Product Leadership Strategy, F&P

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015 Date of issue: 14/03/2016 Revision date: 14/03/2016 Supersedes: 14/03/2016

Version: 4.2

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

1.1. Product identifier

Product form Trade name

Product code

Vaporizer

Mixture CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW BU Chemicals Aerosol

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

1.2.1. Relevant identified uses Industrial/Professional use spec

For professional use only

Hilti AG

Feldkircherstraße 100

9494 Schaan - Liechtenstein

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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

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

1.4. Emergency telephone number

Emergency number

T +423 234 2111 chemicals.hse@hilti.com Schweizerisches Toxikologisches Informationszentrum – 24h Service

Department issuing data specification sheet

+41 44 251 51 51 (international) +44 161 886 1000 0800 886 100 Toll-free

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

| Aerosol 1 | H222;H229 |
|--------------------|--------------|
| Acute Tox. 4 (Inha | lation) H332 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| Resp. Sens. 1 | H334 |
| 14/03/2016 | EN (English) |

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P;

CF-I XTW

Safety Data Sheet

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

| Skin Sens. 1 | H317 |
|-------------------|------|
| Carc. 2 | H351 |
| Lact. | H362 |
| STOT SE 3 | H335 |
| STOT RE 2 | H373 |
| Aquatic Chronic 4 | H413 |
| | |

Full text of hazard classes and H-statements ; see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS07 GHS08 Signal word (CLP) Danger Hazardous ingredients 4,4'-diphenylmethanediisocyanate, isomeres and homologues, Alkanes, C14-17, chloro (MCCP, Medium chained chlorinated paraffins) Hazard statements (CLP) H222 - Extremely flammable aerosol H229 - Pressurised container: May burst if heated 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 H362 - May cause harm to breast-fed children H373 - May cause damage to organs through prolonged or repeated exposure H413 - May cause long lasting harmful effects to aquatic life Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking P211 - Do not spray on an open flame or other ignition source P251 - Pressurized container: Do not pierce or burn, even after use

P260 - Do not breathe spray

P280 - Wear protective gloves, protective clothing, eye protection

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

| Adverse physicochemical, human health and environmental effects | Pressurised container: May burst if heated. Extremely flammable aerosol. Suspected of causing cancer. May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. 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. May cause long lasting harmful effects to aquatic life. May form flammable/explosive vapour-air mixture. |
|---|---|
| | allergy or asthma symptoms or breathing difficulties if inhaled. May cause long lasting harmful |

SECTION 3: Composition/information on ingredients

3.1. Substance

2.3. Other hazards

Not applicable

14/03/2016 EN (English)

CF-F 750 FILLING FOAM

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW

Safety Data Sheet

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

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--|---|---------|--|
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues | (CAS No) 9016-87-9 | 40 - 60 | Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 |
| Alkanes, C14-17, chloro (MCCP, Medium chained chlorinated paraffins) | (CAS No) 85535-85-9 (EC no) 287-477-0 (EC index no) 602-095-00-X (REACH-no) 01-2119519269-33 | 10 - 25 | Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Dimethyl ether | (CAS No) 115-10-6 (EC no) 204-065-8 (EC index no) 603-019-00-8 | 5 - 10 | Flam. Gas 1, H220 Compressed gas, H280 |
| Propane | (CAS No) 74-98-6 (EC no) 200-827-9 (EC index no) 601-003-00-5 | 5 - 10 | Flam. Gas 1, H220 Compressed gas, H280 |
| Isobutane | (CAS No) 75-28-5 (EC no) 200-857-2 (EC index no) 601-004-00-0 | 5 - 10 | Flam. Gas 1, H220 Compressed gas, H280 |
| Butane | (CAS No) 106-97-8 (EC no) 203-448-7 (EC index no) 601-004-00-0 (REACH-no) 01-2119474691-32 | 5 - 10 | Flam. Gas 1, H220 Compressed gas, H280 |

Full text of H-statements: see section 16

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. | |
| 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 and effects, both acute and delayed | | |
|---|--|--|
| Symptoms/injuries after inhalation May cause respiratory irritation. May cause allergy or asthma symptoms or breathin if inhaled. | | |
| Symptoms/injuries after skin contact | Irritation. May cause an allergic skin reaction. | |
| Symptoms/injuries after eye contact | Eye irritation. | |

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

Treat symptomatically.

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P;

CF-I XTW

Safety Data Sheet

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

| 26 |
|---|
| |
| |
| Water spray. Dry powder. Foam. Carbon dioxide. |
| bstance or mixture |
| Extremely flammable aerosol. |
| Pressurised container: May burst if heated. |
| Toxic fumes may be released. Vapours may form explosive mixture with air. |
| |
| Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| neasures |
| uipment and emergency procedures |
| |
| Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe spray. Avoid contact with skin and eyes. |
| |
| Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| |

6.2. Environmental precautions

Avoid release to the environment.

| 6.3. Methods and material for containment and cleaning up | | |
|---|---|--|
| Methods for cleaning up | Recover mechanically the product. | |
| Other information | Dispose of materials or solid residues at an authorized site. | |

6.4. Reference to other sections

For further information refer to section 13.

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. Pressurized container: 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. Avoid contact during pregnancy/while nursing. 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. |
| Hygiene measures | Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

CF-F 750 FILLING FOAM

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P;

CF-I XTW

Safety Data Sheet

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

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep cool. 5 - 25 °C Keep away from heat and direct sunlight. Keep away from ignition sources.

Storage temperature Heat and ignition sources

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | | | |
|---|--------------------------------|--|--|
| United Kingdom | WEL TWA (mg/m ³) | 0.02 mg/m ³ | |
| United Kingdom | WEL STEL (mg/m ³) | 0.07 mg/m ³ | |
| Dimethyl ether (115-10 | Dimethyl ether (115-10-6) | | |
| EU | Local name | Dimethylether | |
| EU | IOELV TWA (mg/m ³) | 1920 mg/m³ | |
| EU | IOELV TWA (ppm) | 1000 ppm | |
| United Kingdom | Local name | Dimethyl ether | |
| United Kingdom | WEL TWA (mg/m ³) | 766 mg/m ³ | |
| United Kingdom | WEL TWA (ppm) | 400 ppm | |
| United Kingdom | WEL STEL (mg/m ³) | 958 mg/m³ | |
| United Kingdom | WEL STEL (ppm) | 500 ppm | |
| Butane (106-97-8) | | | |
| United Kingdom | Local name | Butane | |
| United Kingdom | WEL TWA (mg/m ³) | 1450 mg/m³ | |
| United Kingdom | WEL TWA (ppm) | 600 ppm | |
| United Kingdom | WEL STEL (mg/m ³) | 1810 mg/m ³ | |
| United Kingdom | WEL STEL (ppm) | 750 ppm | |
| United Kingdom | Remark (WEL) | Carc, (only applies if Butane contains more than 0.1% of buta-1,3-diene) | |

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW

| DNEL/DMEL (Workers) | |
|----------------------------------|------------------------|
| Acute - systemic effects, dermal | ≈ mg/kg bodyweight/day |
| | |

8.2. Exposure controls

| Appropriate | engineering | controls |
|-------------|-------------|----------|
| | | |

Ensure good ventilation of the work station.

Personal protective equipment

Gloves. Protective clothing. Safety glasses.

| Hand protection | | Protective gloves | | |
|-------------------|----------------------|-------------------|----------------|----------|
| Туре | Material | Permeation | Thickness (mm) | Standard |
| Disposable gloves | Nitrile rubber (NBR) | 3 (> 60 minutes) | | EN 374 |

Eye protection

| Туре | Use | Characteristics | Standard |
|----------------|-----|-----------------|----------------|
| Safety glasses | | | EN 166, EN 171 |

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW

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

| Skin and body protection | Wear suitable protect | ive clothing | | |
|--|-----------------------|------------------------------|----------------|--|
| Respiratory protection | In case of inadequate | e ventilation wear respirate | ory protection | |
| Device | Filter type | Condition | Standard | |
| Aerosol mask | Filter AX (brown) | | | |
| | | | | |
| Environmental exposure controls Avoid release to the | | environment | | |
| Environmental exposure controls | Avoid release to the | | | |

9.1. Information on basic physical and chemical properties

| | •• |
|--|---|
| Physical state | Liquid |
| Appearance | Aerosol. |
| Colour | No data available |
| Odour | No data available |
| Odour threshold | No data available |
| рН | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Melting point | Not applicable |
| Freezing point | No data available |
| Boiling point | < 35 °C |
| Flash point | < 0 °C |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | Extremely flammable aerosol |
| Vapour pressure | No data available |
| Relative vapour density at 20 °C | No data available |
| Relative density | No data available |
| Density | < 1.3 g/cm³ |
| Solubility | No data available |
| Log Pow | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | No data available |
| Explosive properties | Pressurised container: May burst if heated. |
| Oxidising properties | No data available |
| Explosive limits | No data available |
| | |

9.2. Other information

No additional information available

EN (English)

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P;

CF-I XTW

Safety Data Sheet

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

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Heating may cause a fire or explosion.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| Acute toxicity | Inhalation: Harmful if inhaled. | |
|---|---|--|
| ATE CLP (gases) | 4500.000 ppmv/4h | |
| ATE CLP (vapours) | 11.000 mg/l/4h | |
| ATE CLP (dust,mist) | 1.500 mg/l/4h | |
| 4,4'-diphenylmethanediisocyanate, isomeres | and homologues (9016-87-9) | |
| LD50 oral rat | > 10000 mg/kg (Rat; Literature study) | |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit; Literature study) | |
| Dimethyl ether (115-10-6) | | |
| LC50 inhalation rat (mg/l) | 309 mg/l/4h (Rat; Literature study) | |
| LC50 inhalation rat (ppm) | 164000 ppm/4h (Rat; Literature study) | |
| Isobutane (75-28-5) | | |
| LC50 inhalation rat (mg/l) | > 50 mg/l/4h (Rat; Literature study) | |
| LC50 inhalation rat (ppm) | 11000 ppm | |
| Propane (74-98-6) | | |
| LC50 inhalation rat (mg/l) | 513 mg/l/4h (Rat; Literature) | |
| LC50 inhalation rat (ppm) | 280000 ppm/4h (Rat; Literature) | |
| Alkanes, C14-17, chloro (MCCP, Medium chained chlorinated paraffins) (85535-85-9) | | |
| LD50 oral rat | > 10 (Rat; Other; Experimental value; >4000; Rat; Other; Experimental value) | |
| LD50 dermal rat | > 2800 mg/kg bodyweight (Rat; Read-across) | |
| LD50 dermal rabbit | > 13500 mg/kg bodyweight (Rabbit; Read-across) | |
| Butane (106-97-8) | | |
| LC50 inhalation rat (mg/l) | 658 mg/l/4h (Rat; Literature) | |
| LC50 inhalation rat (ppm) | 276000 ppm/4h (Rat; Literature) | |
| 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 | |

14/03/2016

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW

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| Carcinogenicity | Suspected of causing cancer. | |
|---|--|--|
| Reproductive toxicity | May cause harm to breast-fed children. | |
| Specific target organ toxicity (single exposure) | May cause respiratory irritation. | |
| Specific target organ toxicity (repeated exposure) | May cause damage to organs through prolonged or repeated exposure. | |
| Aspiration hazard | Not classified | |
| CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW | | |
| Vaporizer | Aerosol | |

SECTION 12: Ecological information

12.1. Toxicity Ecology - general

May cause long lasting harmful effects to aquatic life.

| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | | |
|---|---|--|
| LC50 other aquatic organisms 1 | > 1000 mg/l (96 h) | |
| Threshold limit other aquatic organisms 1 | > 1000 mg/l (96 h) | |
| | | |
| Dimethyl ether (115-10-6) | | |
| LC50 fish 1 | 3082 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) | |
| EC50 Daphnia 1 | 756.2 mg/l (48 h; Daphnia magna) | |
| LC50 fish 2 | > 1000 mg/l (96 h; Pisces) | |
| EC50 Daphnia 2 | > 4400 mg/l (48 h; Daphnia magna) | |
| Threshold limit algae 1 | 154.9 mg/l (96 h; Algae) | |
| Isobutane (75-28-5) | | |
| Threshold limit algae 1 | 1.07 mg/l (Algae) | |
| Threshold limit algae 2 | 7.15 mg/l (72 h; Algae) | |
| Propane (74-98-6) | | |
| TLM fish 1 | 17.8 - 19.7,96 h; Pimephales promelas | |
| Threshold limit algae 1 | 1.45 - 4.53,72 h; Algae | |
| Threshold limit algae 2 | 8 mg/l (72 h; Algae) | |
| Alkanes, C14-17, chloro (MCCP, Medium ch | ained chlorinated paraffins) (85535-85-9) | |
| LC50 fish 1 | > 10000 mg/l (96 h; Alburnus alburnus) | |
| LC50 fish 2 | > 500 mg/l (48 h; Leuciscus idus) | |
| Butane (106-97-8) | | |
| TLM fish 1 | 1000 mg/l (96 h; Pisces) | |
| Threshold limit other aquatic organisms 1 | 0.6 - 0.9,504 h; Daphnia magna | |
| Threshold limit algae 1 | 0.88 - 1.76,Algae | |

12.2. Persistence and degradability

| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | | | |
|--|---|--|--|
| Persistence and degradability Not readily biodegradable in water. Hydrolysis in water. No (test)data on mobility | | | |
| | substance available. | | |
| Dimethyl ether (115-10-6) | Dimethyl ether (115-10-6) | | |
| Persistence and degradability | Not readily biodegradable in water. Non degradable in the soil. Not applicable (gas). | | |
| Isobutane (75-28-5) | | | |
| Persistence and degradability | Inherently biodegradable. Biodegradable in the soil. Not applicable (gas). | | |
| Propane (74-98-6) | | | |
| Persistence and degradability | Readily biodegradable in water. Not applicable (gas). Photodegradation in the air. | | |
| Alkanes, C14-17, chloro (MCCP, Media | Alkanes, C14-17, chloro (MCCP, Medium chained chlorinated paraffins) (85535-85-9) | | |
| Persistence and degradability Not readily biodegradable in water. Forming sediments in water. Not readily biodegradable in | | | |
| | soil. Adsorbs into the soil. | | |

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P;

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| Butane (106-97-8) | | | |
|---------------------------------------|--|--|--|
| Persistence and degradability | Readily biodegradable in water. | | |
| | | | |
| 12.3. Bioaccumulative potential | | | |
| 4,4'-diphenylmethanediisocyanate, iso | omeres and homologues (9016-87-9) | | |
| BCF fish 1 | 1 (Pisces) | | |
| Bioaccumulative potential | Not bioaccumulative. | | |
| Dimethyl ether (115-10-6) | Dimethyl ether (115-10-6) | | |
| Log Pow | 0.10 (Experimental value; 0.07; QSAR; KOWWIN; 25 °C) | | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | | |
| Isobutane (75-28-5) | | | |
| BCF fish 1 | 20 - 52 (Pisces; QSAR) | | |
| BCF other aquatic organisms 1 | 20 - 52 (Daphnia magna; QSAR) | | |
| Log Pow | 2.8 (Experimental value) | | |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). | | |

| Propane (74-98-6) | | |
|---|--|--|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). | |
| Alkanes, C14-17, chloro (MCCP, Medium chained chlorinated paraffins) (85535-85-9) | | |
| Log Pow | > 5 (Literature) | |
| Bioaccumulative potential | High potential for bioaccumulation (Log Kow > 5). | |
| Butane (106-97-8) | | |
| Log Pow | 2.89 (Experimental value) | |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow ≤ 4). | |

12.4. Mobility in soil

| Dimethyl ether (115-10-6) | | | |
|---------------------------|--------------------|--|--|
| Surface tension | 0.020 N/m (-40 °C) | | |
| Isobutane (75-28-5) | | | |
| Surface tension | 0.014 N/m (-10 °C) | | |
| Propane (74-98-6) | | | |
| Surface tension | 0.016 N/m (-47 °C) | | |
| Butane (106-97-8) | | | |
| Surface tension | < 0.1 N/m (0 °C) | | |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| Waste treatment methods | Dispose of contents/container in accordance with licensed collector's sorting instructions. |
|-----------------------------------|---|
| Waste disposal recommendations | After curing, the product can be disposed of with household waste. |
| European List of Waste (LoW) code | 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances 08 05 01* - waste isocyanates |

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P;

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

SECTION 14: Transport information

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

Other information

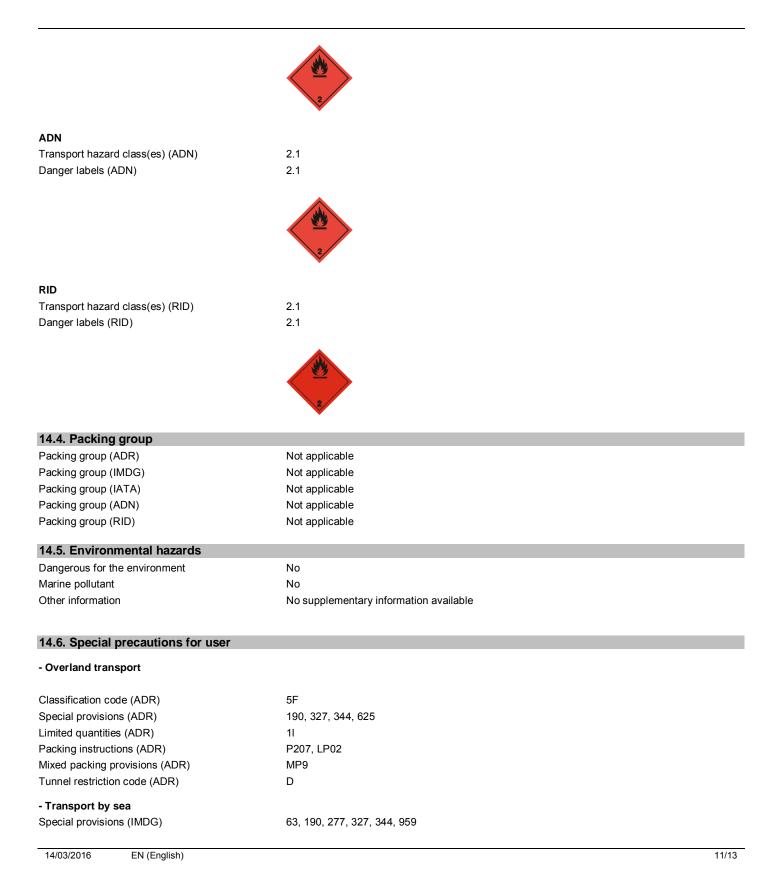
No supplementary information available

| 14.1. UN number | |
|---------------------------------------|----------------------------|
| UN-No. (ADR) | 1950 |
| UN-No. (IMDG) | 1950 |
| UN-No. (IATA) | 1950 |
| UN-No. (ADN) | 1950 |
| UN-No. (RID) | 1950 |
| | |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (ADR) | AEROSOLS |
| Proper Shipping Name (IMDG) | AEROSOLS |
| Proper Shipping Name (IATA) | Aerosols, flammable |
| Proper Shipping Name (ADN) | AEROSOLS |
| Proper Shipping Name (RID) | AEROSOLS |
| Transport document description (ADR) | UN 1950 AEROSOLS, 2.1, (D) |
| Transport document description (IMDG) | UN 1950 AEROSOLS, 2.1 |
| | |
| 14.3. Transport hazard class(es) | |
| ADR | |
| Transport hazard class(es) (ADR) | 2.1 |
| Danger labels (ADR) | 2.1 |
| | |
| IMDG | |
| Transport hazard class(es) (IMDG) | 2.1 |
| Danger labels (IMDG) | 2.1 |
| | |
| | 2 |
| ΙΑΤΑ | |
| Transport hazard class(es) (IATA) | 2.1 |
| Hazard labels (IATA) | 2.1 |
| • • | |

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW

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CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW

Safety Data Sheet

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

| Limited quantities (IMDG) | SP277 | |
|-----------------------------------|--|--|
| Packing instructions (IMDG) | P207, LP02 | |
| EmS-No. (Fire) | F-D | |
| EmS-No. (Spillage) | S-U | |
| Stowage category (IMDG) | None | |
| Stowage and segregation (IMDG) | Protected from sources of heat For AEROSOLS with a maximum capacity of 1 litre: Category A. Segregation as for class 9 but 'Separated from' class 1 except division 1.4. For AEROSOLS with a capacity above 1 litre: Category B. Segregation as for the appropriate sub-division of class 2. For WASTE AEROSOLS: Category C. Clear of living quarters. Segregation as for the appropriate sub-division of class 2. | |
| MFAG-No | 126 | |
| - Air transport | | |
| PCA packing instructions (IATA) | 203 | |
| PCA max net quantity (IATA) | 75kg | |
| Special provisions (IATA) | A145, A167, A802 | |
| - Inland waterway transport | | |
| Classification code (ADN) | 5F | |
| Special provisions (ADN) | 19, 327, 344, 625 | |
| Limited quantities (ADN) | 1L | |
| Excepted quantities (ADN) | E0 | |
| Equipment required (ADN) | PP, EX, A | |
| Ventilation (ADN) | VE01, VE04 | |
| Number of blue cones/lights (ADN) | 1 | |
| Carriage prohibited (ADN) | No | |
| Not subject to ADN | No | |
| - Rail transport | | |
| Special provisions (RID) | 190, 327, 344, 625 | |
| Limited quantities (RID) | 1L | |
| Packing instructions (RID) | P207, LP02 | |
| Carriage prohibited (RID) | No | |
| | | |

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

Switzerland

Swiss CPID No

254761-78 / 360671-23

CF 710; CF-F 750; CF-F 750 GV; CF-F 650 B; CF-FW 500; CF-I 50 ECO; CF-I ECO+; CF-I ECO GV; CF-I 750; CF-I 750/G; CF-ISO 750/P; CF-I XTW

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

| | Acute touicity (inhel) Cotesson (|
|---------------------------|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Aerosol 1 | Aerosol, Category 1 |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment — Chronic Hazard, Category 4 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Compressed gas | Gases under pressure : Compressed gas |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Gas 1 | Flammable gases, Category 1 |
| Lact. | Reproductive toxicity, Additional category, Effects on or via lactation |
| Resp. Sens. 1 | Sensitisation — Respiratory, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, 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 |
| H220 | Extremely flammable gas |
| H222 | Extremely flammable aerosol |
| H229 | Pressurised container: May burst if heated |
| H280 | Contains gas under pressure; may explode if heated |
| 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 |
| H362 | May cause harm to breast-fed children |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H413 | May cause long lasting harmful effects to aquatic life |
| - | |

SDS_EU_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



Hilti CF-F 750 FILLING FOAM Job Reference

| Year | Project Name | Customer Name | Project type |
|------|---|-------------------------------------|----------------|
| 2022 | SIN FAT RD, KWUN TONG NKIL 6584 | HIP HING CONSTRUCTION CO LTD | Residential |
| 2022 | R6 TKO-LAM TIN TUNNEL NE/2015/01 | TIME CONCEPT CONSTRUCTION LIMITED | Infrastructure |
| 2022 | YAU MA TEI- KWONG WAH HOSPITAL PHASE 1 | CHINA STATE CONSTRUCTION | Health |
| 2022 | KAI TAK AREA 4C, SITE 2, NKIL 6552 | E MAN CONSTRUCTION COMPANY LIMITED | Residential |
| 2022 | R6 TRUNK ROAD T2 ED/2018/04 | TIME CONCEPT CONSTRUCTION LIMITED | Infrastructure |
| 2022 | KAI TAK AREA 4E, SITE 1, NKIL 6603 | CHINA OVERSEAS BUILDING | Residential |
| 2022 | TUNG CHUNG, AREA 100 - PUBLIC HOUSING | AGGRESSIVE CONSTRUCTION COMPANY | Residential |
| 2022 | KAI TAK 1E SITE 2A&B (6557) | HIP HING CONSTRUCTION CO LTD | Office |
| 2022 | CHING HONG RD N HOUSING PH1,2 | CHINA STATE CONSTRUCTION | Residential |
| 2022 | WONG MA KOK RD, STANLEY (120) | TREASURE CONSTRUCTION ENGINEERING | Residential |
| 2023 | AREA 54 TUNG CHUNG HOUSING | AGGRESSIVE CONSTRUCTION COMPANY | Residential |
| 2023 | ANDERSON ROAD QUARRY, SITE R2-2 | YAU LEE CONSTRUCTION CO LTD | Residential |
| 2023 | PAK WO RD, FANLING DD 51 - HOUSING SOCIETY | PAUL Y. GENERAL CONTRACTORS LIMITED | Residential |
| 2023 | LEI YUE MUN PUBLIC HOUSING PH4 | CHINA STATE CONSTRUCTION | Residential |
| 2023 | R6 CTL KLN ROUTE-YMT EAST HY/2014/08 | TIME CONCEPT CONSTRUCTION LIMITED | Infrastructure |
| 2023 | KAI TAK AREA 4A, SITE 2, NKIL 6554 | HIP HING CONSTRUCTION CO LTD | Residential |
| 2023 | TUEN MUN AREA 17, SITE B & C HOUSING (NEAR YI | FABLE CONTRACTORS LIMITED | Residential |
| 2023 | YING TUNG RD, TUNG CHUNG AREA 99 - PUBLIC TF | | Transport |
| 2023 | WONG CHUK HANG STATION PH3 (SITE C) | CHINA OVERSEAS BUILDING | Residential |
| 2023 | HO MAN TIN STATION RES (PACKAGE 2) | GAMMON ENGINEERING & CONSTRUCTION | Residential |
| 2024 | R6 CTL KLN ROUTE-YMT EAST HY/2014/08 | TIME CONCEPT CONSTRUCTION LIMITED | Infrastructure |
| 2024 | YING TUNG RD, TUNG CHUNG AREA 99 - PUBLIC TF | R/YAU LEE CONSTRUCTION CO LTD | Transport |
| 2024 | LONG BIN - PUBLIC HOUSING PH 2 | YAU LEE CONSTRUCTION CO LTD | Residential |
| 2024 | HO MAN TIN STATION RES PACKAGE 1 | MAJESTIC ENGINEERING CO LTD | Residential |
| 2024 | LEI YUE MUN PUBLIC HOUSING PH4 | CHINA STATE CONSTRUCTION | Residential |
| 2024 | HANG TAI RD, MA ON SHAN AREA 86B PH 1&2 - HOU | J CHINA STATE CONSTRUCTION | Residential |
| 2024 | TAI WAI STATION NW RES | PYROFOE ENGINEERS LTD | Residential |
| 2024 | AREA 54 TUNG CHUNG HOUSING | AGGRESSIVE CONSTRUCTION COMPANY | Residential |
| 2024 | TAI PO FU TIP EST PH2 | AGGRESSIVE CONSTRUCTION COMPANY | Residential |
| 2024 | ANDERSON ROAD QUARRY, SITE R2-2 | YAU LEE CONSTRUCTION CO LTD | Residential |
| | | | |