

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

**Safety Data Sheet**

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Date of issue: 09/01/2016

Revision date: 09/02/2016

Supersedes: 09/01/2016

Version: 5.2

**SECTION 1: Identification**

**1.1. Identification**

Product form	Mixture
Trade name	CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD
Product code	BU Chemicals

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

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Hilti, Inc.  
 Legacy Tower, Suite 1000  
 75024 Plano - USA  
 T +1 9724035800  
 1-800-879-8000 toll free - F +1 918 254 0522

**Supplier**

Hilti, Inc.  
 Legacy Tower, Suite 1000  
 75024 Plano - USA  
 T +1 9724035800  
 1-800-879-8000 toll free - F +1 918 254 0522

**Department issuing data specification sheet**

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

**1.4. Emergency telephone number**

Emergency number	Chem-Trec Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada) Tel.: 703 527 3887 (Other countries) +1 918 8723000 1-800-879-8000 toll free
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**SECTION 2: Hazards identification**

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

**GHS-US classification**

Flam. Aerosol 1	H222 - Extremely flammable aerosol
Acute Tox. 4 (Inhalation:dust,mist)	H332 - Harmful if inhaled
Skin Irrit. 2	H315 - Causes skin irritation
Eye Irrit. 2A	H319 - Causes serious eye irritation
Resp. Sens. 1	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
Skin Sens. 1	H317 - May cause an allergic skin reaction
Carc. 2	H351 - Suspected of causing cancer
STOT SE 3	H335 - May cause respiratory irritation
STOT RE 2	H373 - May cause damage to organs through prolonged or repeated exposure

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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Full text of H statements : see section 16

**2.2. Label elements**

**GHS-US labelling**

Hazard pictograms (GHS-US)



GHS02

GHS07

GHS08

Signal word (GHS-US)

Danger

Hazard statements (GHS-US)

- H222 - Extremely flammable aerosol
- 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-US)

- 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 eye protection, protective clothing, protective gloves
- P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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Name	Product identifier	%	GHS-US classification
4,4'-diphenylmethanediisocyanate, isomeres and homologues	(CAS No) 9016-87-9	40 - 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
tris(2-chloro-1-methylethyl) phosphate	(CAS No) 13674-84-5	10 - 25	Acute Tox. 4 (Oral), H302
Propane	(CAS No) 74-98-6	10 - 25	Flam. Gas 1, H220 Compressed gas, H280
Isobutane	(CAS No) 75-28-5	10 - 25	Flam. Gas 1, H220 Compressed gas, H280
Butane	(CAS No) 106-97-8	10 - 25	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 breathing difficulties 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.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.
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**5.2. Special hazards arising from the substance or mixture**

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

**5.3. Advice for firefighters**

Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV; CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV); CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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**SECTION 6: Accidental release measures**

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

**6.1.1. For non-emergency personnel**

Emergency procedures  
Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe spray. Avoid contact with skin and eyes.

**6.1.2. For emergency responders**

Protective equipment  
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**

No additional information available

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

Methods for cleaning up  
Mechanically recover the product.  
Other information  
Dispose of materials or solid residues at an authorized site. After curing, the product can be disposed of with household waste.

**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. 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.

**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.  
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**

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>		
Not applicable		
<b>Propane (74-98-6)</b>		
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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<b>Propane (74-98-6)</b>		
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
<b>Isobutane (75-28-5)</b>		
ACGIH	ACGIH TWA (ppm)	1000 ppm
ACGIH	ACGIH STEL (ppm)	1000 ppm
<b>tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</b>		
Not applicable		
<b>Butane (106-97-8)</b>		
ACGIH	ACGIH TWA (ppm)	1000 ppm
ACGIH	ACGIH STEL (ppm)	1000 ppm

**8.2. Exposure controls**

Appropriate engineering controls  
Personal protective equipment

Ensure good ventilation of the work station.  
Protective clothing. Safety glasses. Gloves.



Hand protection  
Skin and body protection  
Respiratory protection  
Environmental exposure controls

Protective gloves.  
Wear suitable protective clothing.  
In case of inadequate ventilation wear respiratory protection.  
Avoid release to the environment.

**SECTION 9: Physical and chemical properties**

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

Physical state	Liquid
Appearance	Aerosol.
Colour	Mixture contains one or more component(s) which have the following colour(s): Dark amber Colourless
Odour	There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Stuffy odour Mild odour Characteristic odour Ether-like odour Pure substance is odourless Commercial/unpurified substance: Unpleasant odour Irritating/pungent odour
Odour threshold	No data available
pH	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	< 35 °C
Flash point	< 0 °C
Relative evaporation rate (butylacetate=1)	No data available
Flammability (solid, gas)	No data available
Explosive limits	No data available

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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Explosive properties	Pressurised container: May burst if heated.
Oxidising properties	No data available
Vapour pressure	No data available
Relative density	No data available
Relative vapour density at 20 °C	No data available
Density	< 1.3 g/cm <sup>3</sup>
Solubility	No data available
Log Pow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available

**9.2. Other information**

VOC content	< 4 g/l EPA method 24
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**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:dust,mist: Harmful if inhaled.
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<b>CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD</b>	
ATE US (dust,mist)	3.061 mg/l/4h

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
LD50 oral rat	> 10000 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit; Literature study)
ATE US (gases)	4500.000 ppmv/4h
ATE US (vapours)	11.000 mg/l/4h
ATE US (dust,mist)	1.500 mg/l/4h

<b>Propane (74-98-6)</b>	
LC50 inhalation rat (mg/l)	513 mg/l/4h (Rat; Literature)
LC50 inhalation rat (ppm)	280000 ppm/4h (Rat; Literature)
ATE US (gases)	280000.000 ppmv/4h
ATE US (vapours)	513.000 mg/l/4h
ATE US (dust,mist)	513.000 mg/l/4h

<b>Isobutane (75-28-5)</b>	
LC50 inhalation rat (mg/l)	> 50 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	11000 ppm

<b>tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</b>	
LD50 oral rat	2800 - 4200 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value; 1011-1824 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)
ATE US (oral)	500.000 mg/kg bodyweight

<b>Butane (106-97-8)</b>	
LC50 inhalation rat (mg/l)	658 mg/l/4h (Rat; Literature)
LC50 inhalation rat (ppm)	276000 ppm/4h (Rat; Literature)
ATE US (gases)	276000.000 ppmv/4h
ATE US (vapours)	658.000 mg/l/4h
ATE US (dust,mist)	658.000 mg/l/4h

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.

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
IARC group	3 - Not classifiable

Reproductive toxicity	Not classified
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
Symptoms/injuries after inhalation	May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	Irritation. May cause an allergic skin reaction.

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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Symptoms/injuries after eye contact                      Eye irritation.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Ecology - general    May cause long lasting harmful effects to aquatic life.

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
<b>Propane (74-98-6)</b>	
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)
<b>Isobutane (75-28-5)</b>	
Threshold limit algae 1	1.07 mg/l (Algae)
Threshold limit algae 2	7.15 mg/l (72 h; Algae)
<b>tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</b>	
LC50 fish 1	98 mg/l (96 h; Pimephales promelas; GLP)
EC50 Daphnia 1	65 - 335 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	56.2 mg/l (96 h; Brachydanio rerio)
Threshold limit algae 1	73 mg/l (96 h; Selenastrum capricornutum; Growth rate)
<b>Butane (106-97-8)</b>	
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**

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
Persistence and degradability	Not readily biodegradable in water. Hydrolysis in water. No (test)data on mobility of the substance available.
<b>Propane (74-98-6)</b>	
Persistence and degradability	Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.
<b>Isobutane (75-28-5)</b>	
Persistence and degradability	Inherently biodegradable. Biodegradable in the soil. Not applicable (gas).
<b>tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</b>	
Persistence and degradability	Not readily biodegradable in water. No (test)data on mobility of the substance available.
<b>Butane (106-97-8)</b>	
Persistence and degradability	Readily biodegradable in water.

**12.3. Bioaccumulative potential**

<b>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</b>	
BCF fish 1	1 (Pisces)
Bioaccumulative potential	Not bioaccumulative.



**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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<b>Propane (74-98-6)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
<b>Isobutane (75-28-5)</b>	
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).
<b>tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</b>	
BCF fish 1	0.8 - 4.6 (Cyprinus carpio; Test duration: 6 weeks)
Log Pow	2.59 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
<b>Butane (106-97-8)</b>	
Log Pow	2.89 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

**12.4. Mobility in soil**

<b>Propane (74-98-6)</b>	
Surface tension	0.016 N/m (-47 °C)
<b>Isobutane (75-28-5)</b>	
Surface tension	0.014 N/m (-10 °C)
<b>Butane (106-97-8)</b>	
Surface tension	< 0.1 N/m (0 °C)

**12.5. Other adverse effects**

Effect on the global warming No known effects from this product.

**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.

**SECTION 14: Transport information**

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

**14.1. UN number**

UN-No. (ADR)	1950
UN-No. (IMDG)	1950
UN-No. (IATA)	1950
UN-No. (ADN)	1950
UN-No. (RID)	1950

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**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



**IATA**

Transport hazard class(es) (IATA)	2.1
Hazard labels (IATA)	2.1



**ADN**

Transport hazard class(es) (ADN)	2.1
Danger labels (ADN)	2.1

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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**RID**

Transport hazard class(es) (RID)	2.1
Danger labels (RID)	2.1



**14.4. Packing group**

Packing group (ADR)	Not applicable
Packing group (IMDG)	Not applicable
Packing group (IATA)	Not applicable
Packing group (ADN)	Not applicable
Packing group (RID)	Not applicable

**14.5. Environmental hazards**

Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

**14.6. Special precautions for user**

**- Overland transport**

Classification code (ADR)	5F
Special provisions (ADR)	190, 327, 344, 625
Limited quantities (ADR)	1I
Packing instructions (ADR)	P207, LP02
Mixed packing provisions (ADR)	MP9
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

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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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
<b>- Air transport</b>	
PCA packing instructions (IATA)	203
PCA max net quantity (IATA)	75kg
Special provisions (IATA)	A145, A167, A802
<b>- Inland waterway transport</b>	
Classification code (ADN)	5F
Special provisions (ADN)	19, 327, 344, 625
Limited quantities (ADN)	1 L
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
<b>- Rail transport</b>	
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**

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

No additional information available

**15.2. International regulations**

**CANADA**

No additional information available

**EU-Regulations**

No additional information available

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

Aerosol 1 H222;H229  
 Acute Tox. 4 (Inhalation) H332  
 Skin Irrit. 2 H315

**CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV;CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV);CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO; CF-I XTW WD**

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Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H335
STOT RE 2	H373

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

**National regulations**

No additional information available

**15.3. US State regulations**

No additional information available

**SECTION 16: Other information**

Revision date 09/02/2016

Full text of H-statements:

H220	Extremely flammable gas
H222	Extremely flammable aerosol
H280	Contains gas under pressure; may explode if heated
H302	Harmful if swallowed
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

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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*

## CF 812 Window & Door Pro Low Pressure Filler Foam

### Product description

CF 812 Window and Door Pro is a low pressure polyurethane foam for use around the perimeter openings of window and door frames (tested in accordance with AAMA 812). This product is ideal for reducing air, sound, dirt, and water infiltration. CF 812 complies with ASTM C 1620, the industry's first specification on aerosol foam sealants.

### Applications for use

- Window and door frame openings
- Skylights
- General insulating



Technical data	
Foam yield per can	Approx 1.30ft <sup>3</sup>
Approximate cure schedule	Tack free after approx 8-10 minutes Ready to cut after approx 15-20 minutes
Application temperature	41 °F to 95 °F (5 °C to 35 °C)
Air infiltration (ASTM E 283)	< 0.01 cfm/ft <sup>2</sup> @ 1.56 psf (75 Pa)
Water infiltration (ASTM E 331)	No leakage after 15 minute exposure (@ 2.9 psf)
Sound transmission classification (as tested per ASTM E 90)	55
Pressure build average (AAMA 812)	0.79 psi (5.4 kPa)
Dimensional stability (AAMA 812)	+/- 2%
Tensile strength (HTC method 2106)	> 6 N/cm <sup>2</sup>
R-Value (ASTM C 518)	4.27
Surface burning characteristics (UL 723)	Flame spread: 0 Smoke developed: 5
Shelf life from date of manufacture (when stored at 68 °F)	12 months

Order Designation	Sales pack quantity	Item number
Pro insulating foam CF 812 WD	1 can	227975
Pro insulating foam CF 812 WD 1 case	12 cans	3413889
Foam dispenser CF DS1	1 pc	259768
Foam dispenser CF-DS L extra long 27" barrel	1 pc	403843
Plastic nozzle tip	20 pc	311512
Cleaner CFR-1	1 can	24631