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

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

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
Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US)

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
P261 - Avoid breathing the spray or its fumes
P262 - Do not get in eyes, on skin, or on clothing
P270 - Wash hands after handling
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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<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-diphenylmethanedisocyanate, isomers and homologues</td>
<td>(CAS No) 9016-87-9</td>
<td>40 - 60</td>
<td>Acute Tox. 4 (Inhalation), H332 (Skin Irrit. 2, H315; Eye Irrit. 2A, H334; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; Carc. 2, H351; STOT SE 3, H335; STOT RE 2, H373)</td>
</tr>
<tr>
<td>tri(2-chloro-1-methylethyl) phosphate</td>
<td>(CAS No) 13674-84-5</td>
<td>10 - 25</td>
<td>Acute Tox. 4 (Inhalation), H332</td>
</tr>
<tr>
<td>Propane</td>
<td>(CAS No) 74-98-6</td>
<td>10 - 25</td>
<td>Flam. Gas 1, H220 (Compressed gas, H280)</td>
</tr>
<tr>
<td>Isobutane</td>
<td>(CAS No) 75-28-5</td>
<td>10 - 25</td>
<td>Flam. Gas 1, H220 (Compressed gas, H280)</td>
</tr>
<tr>
<td>Butane</td>
<td>(CAS No) 106-97-8</td>
<td>10 - 25</td>
<td>Flam. Gas 1, H220 (Compressed gas, H280)</td>
</tr>
</tbody>
</table>

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.

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.
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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>OSHA PEL (TWA) (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-diphenylmethanediisocyanate, isomers and homologues (9016-87-9)</td>
<td>1800 mg/m³</td>
</tr>
<tr>
<td>Propane (74-98-6)</td>
<td>1800 mg/m³</td>
</tr>
</tbody>
</table>

OSHA

OSHA PEL (TWA) (mg/m³) 1800 mg/m³
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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<table>
<thead>
<tr>
<th>Propane (74-98-6)</th>
<th>OSHA PEL (TWA) (ppm)</th>
<th>1000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane (75-28-5)</td>
<td>ACGIH TWA (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>ACGIH STEL (ppm)</td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Butane (106-97-8)</td>
<td>ACGIH TWA (ppm)</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>ACGIH STEL (ppm)</td>
<td>1000 ppm</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls
Ensure good ventilation of the work station.

Personal protective equipment
Protective clothing. Safety glasses. Gloves.

Hand protection
Protective gloves.

Skin and body protection
Wear suitable protective clothing.

Respiratory protection
In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls
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
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/cm³

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

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

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Inhalation: dust, mist: Harmful if inhaled.</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td></td>
</tr>
<tr>
<td>ATE US (dust, mist)</td>
<td>3.061 mg/l/4h</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 10000 mg/kg (Rat; Literature study)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 5000 mg/kg (Rabbit; Literature study)</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>4500.000 ppmv/4h</td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>11.000 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust,mist)</td>
<td>1.500 mg/l/4h</td>
</tr>
</tbody>
</table>

### Propane (74-98-6)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>513 mg/l/4h (Rat; Literature)</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>280000 ppm/4h (Rat; Literature)</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>28000.000 ppmv/4h</td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>513.000 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust,mist)</td>
<td>513.000 mg/l/4h</td>
</tr>
</tbody>
</table>

### Isobutane (75-28-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 50 mg/l/4h (Rat; Literature study)</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>11000 ppm</td>
</tr>
</tbody>
</table>

### Tris(2-chloro-1-methylethyl) phosphate (13674-84-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>2800 - 4200 mg/kg bodyweight (Rat: Equivalent or similar to OECD 401; Experimental value; 1011-1824 mg/kg bodyweight; Rat: Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg (Rat; Experimental value)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg bodyweight (Rabbit; Experimental value; OECD 402: Acute Dermal Toxicity)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>500.000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

### Butane (106-97-8)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>658 mg/l/4h (Rat; Literature)</td>
</tr>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>276000 ppm/4h (Rat; Literature)</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>276000.000 ppmv/4h</td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>658.000 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust,mist)</td>
<td>658.000 mg/l/4h</td>
</tr>
</tbody>
</table>

### 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, isomers and homologues (9016-87-9)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>3 - Not classifiable</td>
</tr>
</tbody>
</table>

### 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.
### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 other aquatic organisms 1</th>
<th>Threshold limit other aquatic organisms 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</td>
<td>&gt; 1000 mg/l (96 h)</td>
<td>&gt; 1000 mg/l (96 h)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>TLM fish 1</th>
<th>Threshold limit algae 1</th>
<th>Threshold limit algae 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane (74-98-6)</td>
<td>17.8 - 19.7 mg/l (96 h; Pimephales promelas)</td>
<td>1.45 - 4.53 mg/l (72 h; Algae)</td>
<td>8 mg/l (72 h; Algae)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Threshold limit algae 1</th>
<th>Threshold limit algae 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isobutane (75-28-5)</td>
<td>1.07 mg/l (Algae)</td>
<td>7.15 mg/l (72 h; Algae)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 other aquatic organisms 1</th>
<th>Threshold limit other aquatic organisms 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</td>
<td>98 mg/l (96 h; Pimephales promelas; GLP)</td>
<td>0.6 - 0.9 mg/l (48 h; Daphnia magna; GLP)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 Daphnia 1</th>
<th>Threshold limit algae 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane (106-97-5)</td>
<td>56.2 mg/l (96 h; Brachydanio rerio)</td>
<td>73 mg/l (96 h; Selenastrum capricornutum; Growth rate)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>Threshold limit algae 1</th>
<th>Threshold limit algae 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLM fish 1</td>
<td>1000 mg/l (96 h; Pisces)</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 Daphnia 1</th>
<th>Threshold limit algae 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</td>
<td>98 mg/l (96 h; Pimephales promelas; GLP)</td>
<td>0.6 - 0.9 mg/l (48 h; Daphnia magna; GLP)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane (74-98-6)</td>
<td>Not readily biodegradable in water. Hydrolysis in water. No (test)data on mobility of the substance available.</td>
</tr>
<tr>
<td>Isobutane (75-28-5)</td>
<td>Inherently biodegradable. Biodegradable in the soil. Not applicable (gas).</td>
</tr>
<tr>
<td>tris(2-chloro-1-methylethyl) phosphate (13674-84-5)</td>
<td>Not readily biodegradable in water. No (test)data on mobility of the substance available.</td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>BCF fish 1</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)</td>
<td>1 (Pisces)</td>
<td>Not bioaccumulative.</td>
</tr>
</tbody>
</table>

Symptoms/injuries after eye contact: Eye irritation.
Propane (74-98-6)
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).

tris(2-chloro-1-methylethyl) phosphate (13674-84-5)
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).

Butane (106-97-8)
Log Pow 2.89 (Experimental value)
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

Propane (74-98-6)
Surface tension 0.016 N/m (-47 °C)

Isobutane (75-28-5)
Surface tension 0.014 N/m (-10 °C)

Butane (106-97-8)
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
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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
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) 1l
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
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.

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- 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) 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

- 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

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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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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:

<table>
<thead>
<tr>
<th>H-statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H220</td>
<td>Extremely flammable gas</td>
</tr>
<tr>
<td>H222</td>
<td>Extremely flammable aerosol</td>
</tr>
<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

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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.