SECTION 1: Kit identification

1.1 Product identifier

Product name  RM 710
Product code  BU Fire Protection

1.2 Details of the supplier of the Safety information for 3-Component-products

Hilti, Inc.
Legacy Tower, Suite 1000
7250 Dallas Parkway
75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

SECTION 2: General information

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

SECTION 3: Kit contents

Classification of the Product

GHS-US classification

Skin Irrit. 2  H315 - Causes skin irritation.
Eye Dam. 1  H318 - Causes serious eye damage.
Skin Sens. 1  H317 - May cause an allergic skin reaction.
Carc. 1A  H350 - May cause cancer.
STOT RE 1  H372 - Causes damage to organs through prolonged or repeated exposure.

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)

Signal word (GHS-US)  Danger
Hazard statements (GHS-US)  
H302+H312 - Harmful if swallowed or in contact with skin
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child.
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-US)  
P260 - Do not breathe dust, fumes.
P280 - Wear eye protection, protective clothing, protective gloves.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P271 - Use only outdoors or in a well-ventilated area.

Additional information

<table>
<thead>
<tr>
<th>Name</th>
<th>General description</th>
<th>Quantity</th>
<th>Unit</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>RM 710, A</td>
<td></td>
<td>1</td>
<td>pcs(pieces)</td>
<td>Acute Tox. 4 (Dermal), H312&lt;br&gt;Skin Corr. 1A, H314&lt;br&gt;Skin Sens. 1, H317</td>
</tr>
<tr>
<td>RM 710, B</td>
<td></td>
<td>1</td>
<td>pcs(pieces)</td>
<td>Acute Tox. 4 (Oral), H302&lt;br&gt;Acute Tox. 4 (Dermal), H312&lt;br&gt;Skin Corr. 1A, H314&lt;br&gt;Skin Sens. 1, H317&lt;br&gt;Repr. 2, H361&lt;br&gt;STOT SE 3, H335</td>
</tr>
<tr>
<td>RM 710, C</td>
<td></td>
<td>1</td>
<td>pcs(pieces)</td>
<td>Eye Irrit. 2B, H320&lt;br&gt;Carc. 1A, H350&lt;br&gt;STOT RE 1, H372</td>
</tr>
</tbody>
</table>

No substance or mixture included in the following Kit components is hazardous according to Regulation (EC) No. 1272/2008 [CLP] and therefore the requirements of Regulation (EU) 2015/830 do not apply

SECTION 4: General advice

No data available

SECTION 5: Safe handling advice

Environmental precautions
Avoid release to the environment.
Prevent entry to sewers and public waters

Storage conditions
Keep cool. Protect from sunlight.
Store in a well-ventilated place.

Precautions for safe handling
Ensure good ventilation of the work station
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid contact with skin and eyes
Do not breathe vapours.
Wear personal protective equipment

Methods for cleaning up
Take up liquid spill into absorbent material

For containment
Collect spillage.

SECTION 6: First aid measures

First-aid measures after eye contact
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Get immediate medical advice/attention.

First-aid measures after ingestion
Rinse mouth.
Do not induce vomiting
Get immediate medical advice/attention.

First-aid measures after inhalation
Remove person to fresh air and keep comfortable for breathing.
If you feel unwell, seek medical advice

First-aid measures after skin contact
Rinse skin with water/shower.
Take off immediately all contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.

Symptoms/effects after eye contact
Serious damage to eyes

Symptoms/effects after ingestion
Burns

Symptoms/effects after inhalation
May cause respiratory irritation.
RM 710
Safety information for 3-Component-products

Symptoms/effects after skin contact
- Burns
- May cause an allergic skin reaction.

Other medical advice or treatment
- Treat symptomatically

SECTION 7: Fire fighting measures

Protection during firefighting
- Do not attempt to take action without suitable protective equipment
- Self-contained breathing apparatus
- Complete protective clothing

Hazardous decomposition products in case of fire
- Toxic fumes may be released

SECTION 8: Other information

No data available
SECTION 1: Identification

1.1. Identification

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>RM 710, A</td>
</tr>
<tr>
<td>Product code</td>
<td>BU Fire Protection</td>
</tr>
</tbody>
</table>

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
7250 Dallas Parkway
75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

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

| Acute Tox. 4 (Dermal) | H312 - Harmful in contact with skin. |
| Skin Corr. 1A | H314 - Causes severe skin burns and eye damage. |
| Skin Sens. 1 | H317 - May cause an allergic skin reaction. |

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)  
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.

Precautionary statements (GHS-US)  
P261 - Avoid breathe vapours.
P280 - Wear protective clothing, eye protection, protective gloves.
P302+P352 - If on skin: Wash with plenty of water.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

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. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol-A-Epichlorhydrin Epoxy resin Average MW &lt; 700</td>
<td>(CAS-No.) 25068-38-6</td>
<td>60-90</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Glycidyl ether</td>
<td>(CAS-No.) Company secret</td>
<td>5-15</td>
<td>Skin Irrit. 2, H315 Skin Sens. 1, H317</td>
</tr>
<tr>
<td>Aliphatic Acrylic Ester</td>
<td>(CAS-No.) Company secret</td>
<td>&lt;10</td>
<td>Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Irrit. 2, H319 Skin Sens. 1, H317</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.

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 (acute and delayed)

Symptoms/effects after skin contact  
Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact  
Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.
### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media


#### 5.2. Special hazards arising from the substance or mixture

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

#### 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. Avoid contact with skin and eyes. Avoid breathing vapours. |

##### 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

| Avoid release to the environment. |

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

| For containment | Collect spillage. |
| Methods for cleaning up | Take up liquid spill into absorbent material. |
| 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 | Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing vapours. |

| Hygiene measures | Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

#### 7.2. Conditions for safe storage, including any incompatibilities

| Storage conditions | Store in a well-ventilated place. Keep cool. |
| Storage temperature | 41 - 77 °F |

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Bisphenol-A-Epichlorhydrin Epoxy resin Average MW < 700 (25068-38-6) | Not applicable |

---

07/11/2017 EN (English)
8.2. Exposure controls

<table>
<thead>
<tr>
<th>Control</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appropriate engineering controls</td>
<td>Ensure good ventilation of the work station.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Protective gloves.</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Safety glasses.</td>
</tr>
<tr>
<td>Skin and body protection</td>
<td>Wear suitable protective clothing.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>In case of insufficient ventilation, wear suitable respiratory equipment.</td>
</tr>
<tr>
<td>Environmental exposure controls</td>
<td>Avoid release to the environment.</td>
</tr>
</tbody>
</table>

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>amber</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 200 °F</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 302 °F</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.13 g/cm³</td>
</tr>
<tr>
<td>Solubility</td>
<td>insoluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>800 - 1800 cP</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with oxidising compounds. Reacts with (some) acids/bases.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>RM 710, A</th>
<th>ATE US (dermal)</th>
<th>1100 mg/kg bodyweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol-A-Epichlorhydrin Epoxy resin Average MW &lt; 700 (25068-38-6)</td>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)</td>
</tr>
<tr>
<td></td>
<td>LD50 dermal rat</td>
<td>&gt; 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes severe skin burns and eye damage.

Serious eye damage/irritation
Not classified

Respiratory or skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
Not classified

Carcinogenicity
Not classified

Reproductive toxicity
Not classified

Specific target organ toxicity (single exposure)
Not classified

Specific target organ toxicity (repeated exposure)
Not classified

Aspiration hazard
Not classified

Symptoms/effects after skin contact
Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact
Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Bisphenol-A-Epichlorhydrin Epoxy resin Average MW &lt; 700 (25068-38-6)</th>
<th>LC50 fish 1</th>
<th>1.2 mg/l (96 h; Oncorhynchus mykiss; Lethal)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC50 Daphnia 1</td>
<td>1.7 mg/l</td>
</tr>
<tr>
<td></td>
<td>LC50 fish 2</td>
<td>2.3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)</td>
</tr>
<tr>
<td></td>
<td>Threshold limit algae 1</td>
<td>&gt; 11 mg/l (72 h; Scenedesmus sp.)</td>
</tr>
<tr>
<td></td>
<td>Threshold limit algae 2</td>
<td>4.2 mg/l (72 h; Scenedesmus sp.)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Bisphenol-A-Epichlorhydrin Epoxy resin</th>
<th>Average MW &lt; 700 (25068-38-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
<td>0.0587-0.0589, 20 °C</td>
</tr>
</tbody>
</table>

### 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.
- **Product/Packaging disposal recommendations**: Dispose in a safe manner in accordance with local/national regulations.
- **Ecology - waste materials**: Avoid release to the environment.

### SECTION 14: Transport information

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.1. UN number</strong></td>
<td>Not regulated for transport</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>14.2. UN proper shipping name</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>14.3. Transport hazard class(es)</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>14.4. Packing group</strong></td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>14.5. Environmental hazards</strong></td>
<td>Dangerous for the environment: Yes</td>
<td>Dangerous for the environment: Yes</td>
<td>Dangerous for the environment: Yes</td>
</tr>
<tr>
<td>Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)</td>
<td>No supplementary information available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 14.6. Special precautions for user

- **Overland transport**: No data available
- **Transport by sea**: No data available
- Air transport
  No data available

- Rail transport
  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
  All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations
  CANADA
  Bisphenol-A-Epichlorhydrin Epoxy resin Average MW < 700 (25068-38-6)
  Listed on the Canadian DSL (Domestic Substances List)

  EU-Regulations
  No additional information available

  Classification according to Regulation (EC) No. 1272/2008 [CLP]
  Acute Tox. 4 (Oral) H302
  Acute Tox. 4 (Inhalation) H332
  Skin Irrit. 2 H315
  Eye Irrit. 2 H319
  Skin Sens. 1 H317
  Aquatic Chronic 2 H411
  Full text of hazard classes and H-statements : see section 16

  National regulations
  No additional information available

15.3. US State regulations
  California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

  Toluene (108-88-3), residual only

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

No significant risk level (NSRL)

SECTION 16: Other information

Revision date 11/07/2017
Full text of H-statements:

<table>
<thead>
<tr>
<th>H312</th>
<th>Harmful in contact with skin.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</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>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

Indication of changes:

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed item</th>
<th>Change</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display TSCA summary in 15.1</td>
<td>Added</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
<td>Added</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revision date</td>
<td>Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of issue</td>
<td>Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Product code</td>
<td>Modified</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SDS_US_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.
SECTION 1: Identification

1.1. Identification

Product form: Mixture
Product name: RM 710, B
Product code: BU Fire Protection

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
7250 Dallas Parkway
75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

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

Acute Tox. 4 (Oral) H302 - Harmful if swallowed.
Acute Tox. 4 (Dermal) H312 - Harmful in contact with skin.
Skin Corr. 1A H314 - Causes severe skin burns and eye damage.
Eye Dam. 1 H318 - Causes serious eye damage.
Skin Sens. 1 H317 - May cause an allergic skin reaction.
Repr. 2 H361 - Suspected of damaging fertility or the unborn child.
STOT SE 3 H335 - May cause respiratory irritation.

Full text of H statements: see section 16
2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)

- GHS05
- GHS07
- GHS08

Signal word (GHS-US)  Danger

Hazard statements (GHS-US)

- H302+H312 - Harmful if swallowed or in contact with skin
- H314 - Causes severe skin burns and eye damage.
- H317 - May cause an allergic skin reaction.
- H335 - May cause respiratory irritation.
- H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS-US)

- P260 - Do not breathe vapours.
- P280 - Wear eye protection, protective clothing, protective gloves.
- P302+P352 - If on skin: Wash with plenty of water
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308+P313 - If exposed or concerned: Get medical advice/attention.

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. Substances

Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylenetriamine</td>
<td>(CAS-No.) 111-40-0</td>
<td>40-70</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4 (Dermal), H312</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 2 (inhalation: vapour), H330</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
</tbody>
</table>

| 4,4'-isopropylidenediphenol (Bisphenol-A) | (CAS-No.) 80-05-7 | 30-50 | Eye Dam. 1, H318  |
|                                           |                    |    | Skin Sens. 1, H317  |
|                                           |                    |    | Repr. 2, H361  |
|                                           |                    |    | STOT SE 3, H335  |

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: Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
- First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion
Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)
Symptoms/effects after skin contact
Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact
Serious damage to eyes.
Symptoms/effects after ingestion
Burns.

4.3. Immediate medical attention and special treatment, if necessary
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media

5.2. Special hazards arising from the substance or mixture
Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

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. Avoid contact with skin and eyes. Do not breathe vapours.

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
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment
Collect spillage.
Methods for cleaning up
Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
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
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe vapours.

07/11/2017 EN (English)  14/27
Hygiene measures  Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. 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 locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Storage temperature  41 - 77 °F

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>ACGIH</th>
<th>ACGIH TWA (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylenetriamine (111-40-0)</td>
<td></td>
<td>1 ppm (Diethylene triamine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)</td>
</tr>
<tr>
<td>4,4’-isopropyldenediphenol (Bisphenol-A) (80-05-7)</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls  Ensure good ventilation of the work station.
Hand protection  Protective gloves.
Eye protection  Safety glasses.
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Blue</td>
</tr>
<tr>
<td>Odour</td>
<td>Amine-like</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>155 - 401 °F</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 212 °F</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.01 g/cm³</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
</tbody>
</table>
9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Reacts with (some) acids/bases. Reacts with oxidising compounds.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RM 710, B</strong></td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>1542.8571428571 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>1557.1428571429 mg/kg bodyweight</td>
</tr>
<tr>
<td>diethylenetriamine (111-40-0)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>1080 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>1090 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>1080 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>1090 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>0.5 mg/l/4h</td>
</tr>
<tr>
<td>4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>3300 mg/kg (Rat)</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>3600 mg/kg (Rabbit)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>3300 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>3600 mg/kg bodyweight</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
Carcinogenicity Not classified
Reproductive toxicity Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure) May cause respiratory irritation.
Specific target organ toxicity (repeated exposure) Not classified
Aspiration hazard Not classified
Symptoms/effects after skin contact Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact Serious damage to eyes.
Symptoms/effects after ingestion Burns.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecology - general** Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
<th>Test Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylenetriamine (111-40-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>430 mg/l (LC50; 96 h)</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>17 - 64 mg/l (EC50; 48 h)</td>
<td></td>
</tr>
<tr>
<td>EC50 other aquatic organisms 1</td>
<td>1164 mg/l (72 h; Selenastrum capricornutum)</td>
<td></td>
</tr>
<tr>
<td>4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 fish 1</td>
<td>9.9 mg/l (96 h; Brachydanio rerio; GLP)</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>3.9 mg/l (48 h; Daphnia magna; GLP)</td>
<td></td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>4.6 - 4.7 mg/l (96 h; Pimephales promelas; GLP)</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>10 mg/l (48 h; Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>2.7 - 3.1,96 h (Selenstrum capricornutum; GLP)</td>
<td></td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
<th>Test Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylenetriamine (111-40-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical oxygen demand (COD)</td>
<td></td>
<td>0.036 g O₂/g substance</td>
</tr>
<tr>
<td>ThOD</td>
<td></td>
<td>2.5 g O₂/g substance</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
<th>Test Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylenetriamine (111-40-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>&lt; 6.3 (BCF)</td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>-1.3</td>
<td></td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td></td>
<td>Bioaccumulation: not applicable.</td>
</tr>
<tr>
<td>4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>5.1 - 67.7 (Cyprinus carpio; Test duration: 6 weeks)</td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>3.32 (Experimental value)</td>
<td></td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td></td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
<th>Test Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethylenetriamine (111-40-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface tension</td>
<td>0.044 N/m (25 °C)</td>
<td></td>
</tr>
</tbody>
</table>
### 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.
- Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

### SECTION 14: Transport information

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>2735</td>
<td>2735</td>
<td>2735</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S.</td>
<td>Amines, liquid, corrosive, n.o.s.</td>
<td>AMINES, LIQUID, CORROSIVE, N.O.S.</td>
</tr>
<tr>
<td>Transport document description</td>
<td>UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, II, (E), ENVIRONMENTALLY HAZARDOUS</td>
<td>UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, II, MARINE POLLUTANT/ENVIRONMENTAL HAZARDOUS</td>
<td></td>
</tr>
</tbody>
</table>

#### 14.3. Transport hazard class(es)

- 8

#### 14.4. Packing group

- II

#### 14.5. Environmental hazards

- Dangerous for the environment: Yes
  - Marine pollutant: Yes

- Dangerous for the environment: Yes

No supplementary information available

#### 14.6. Special precautions for user

- Overland transport

  - Classification code (ADR): C7
  - Special provisions (ADR): 274
  - Limited quantities (ADR): 11
  - Packing instructions (ADR): P001, IBC02
### Mixed packing provisions (ADR)
- Orange plates

<table>
<thead>
<tr>
<th>Tunnel restriction code (ADR)</th>
<th>MP15</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>orange plates</strong></td>
<td>E</td>
</tr>
</tbody>
</table>

**- Transport by sea**
- Special provisions (IMDG): 274
- Limited quantities (IMDG): 1 L
- Packing instructions (IMDG): P001
- EmS-No. (Fire): F-A
- EmS-No. (Spillage): S-B
- Stowage category (IMDG): A
- Stowage and segregation (IMDG): Separated from acids.
- MFAG-No: 153

**- Air transport**
- PCA packing instructions (IATA): 851
- PCA max net quantity (IATA): 1L
- CAO packing instructions (IATA): 855
- Special provisions (IATA): A3

**- Rail transport**
- Special provisions (RID): 274
- Limited quantities (RID): 1L
- Packing instructions (RID): P001, IBC02
- 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

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

#### 15.2. International regulations

**CANADA**

- diethylenetriamine (111-40-0)
  - Listed on the Canadian DSL (Domestic Substances List)

- 4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)
  - Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

No additional information available.

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

- Acute Tox. 4 (Inhalation, dust, mist): H332
- Skin Corr. 1B: H314
- Eye Dam. 1: H318
- Skin Sens. 1: H317
- Muta. 2: H341
- STOT RE 2: H373
RM 710, B
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aquatic Acute 1 H400
Aquatic Chronic 1 H410
Full text of hazard classes and H-statements : see section 16

National regulations
No additional information available

15.3. US State regulations
California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

| 4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7) |
|---------------------------|---------------------------|---------------------------|---------------------------|
| No | No | Yes | Yes |
| No significant risk level (NSRL) |

SECTION 16: Other information

Revision date 11/07/2017

Full text of H-statements:

| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |

Indication of changes:

<table>
<thead>
<tr>
<th>Section</th>
<th>Changed item</th>
<th>Change</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display California Proposition 65 summary in 15.3</td>
<td>Added</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revision date</td>
<td>Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supersedes</td>
<td>Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of issue</td>
<td>Modified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display TSCA summary in 15.1</td>
<td>Added</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
SECTION 1: Identification

1.1. Identification

Product form: Mixture
Product name: RM 710, C
Product code: BU Fire Protection

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
7250 Dallas Parkway
75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

Supplier
Hilti, Inc.
Legacy Tower, Suite 1000
7250 Dallas Parkway
75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

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
Eye Irrit. 2B H320 - Causes eye irritation
Carc. 1A H350 - May cause cancer.
STOT RE 1 H372 - Causes 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)
- H320 - Causes eye irritation
- H350 - May cause cancer.
- H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-US)
- P260 - Do not breathe dust.
- P280 - Wear eye protection, protective clothing, protective gloves.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 - IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION.

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. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>(CAS-No.) 14808-60-7</td>
<td>100</td>
<td>Eye Irrit. 2B, H320, Carc. 1A, H350, STOT RE 1, H372</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.
- First-aid measures after skin contact: Wash skin with plenty of water.
- First-aid measures after eye contact: Rinse eyes with water as a precaution.
- First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)
No additional information available

4.3. Immediate medical attention and special treatment, if necessary
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture
Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

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.

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
Avoid release to the environment.

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.

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
Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures
Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions
Store in a well-ventilated place. Keep cool.
Storage temperature
41 - 77 °F

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Quartz (14808-60-7) | OSHA | Remark (OSHA) | (3) See Table Z-3. |

8.2. Exposure controls
Appropriate engineering controls
Ensure good ventilation of the work station.
Hand protection
protective gloves.
Eye protection
Safety glasses.
Skin and body protection
Wear suitable protective clothing.
Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.
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
Solid
Appearance
Powder.
9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified
Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes eye irritation.
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: May cause cancer.

<table>
<thead>
<tr>
<th>Quartz (14808-60-7)</th>
<th>1ARC group</th>
<th>1 - Carcinogenic to humans</th>
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</thead>
<tbody>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
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<tr>
<td>Specific target organ toxicity (single exposure)</td>
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<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
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<tr>
<td>Aspiration hazard</td>
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</table>

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
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.

SECTION 14: Transport information

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

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>RID</th>
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<tr>
<td>14.1. UN number</td>
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<tr>
<td>14.2. UN proper shipping name</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
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</tbody>
</table>
14.3. Transport hazard class(es)  
Not applicable  
Not applicable  
Not applicable  
Not applicable

14.4. Packing group  
Not applicable  
Not applicable  
Not applicable  
Not applicable

14.5. Environmental hazards  
<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>RID</th>
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<tr>
<td>Dangerous for the environment : No</td>
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<td>Dangerous for the environment : No</td>
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<tr>
<td>Marine pollutant : No</td>
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</tbody>
</table>

No supplementary information available

14.6. Special precautions for user  
- Overland transport  
- Transport by sea  
No data available  
- Air transport  
No data available  
- Rail transport  
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  
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations  
CANADA  
Quartz (14808-60-7)  
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations  
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]  
Not classified

National regulations  
Quartz (14808-60-7)  
Listed on IARC (International Agency for Research on Cancer)
15.3. US State regulations

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>No significant risk level (NSRL)</td>
<td>Yes</td>
<td>No</td>
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</table>

SECTION 16: Other information

Revision date 11/07/2017

Full text of H-statements:

- **H320** Causes eye irritation
- **H350** May cause cancer.
- **H372** Causes damage to organs through prolonged or repeated exposure.

*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.*