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 800PC</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

Use of the substance/mixture: Construction chemicals

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

- 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.

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

GHS-US labelling

Hazard pictograms (GHS-US)

<table>
<thead>
<tr>
<th>Picture</th>
<th>GHS05</th>
<th>GHS07</th>
<th>GHS08</th>
</tr>
</thead>
</table>

Signal word (GHS-US)  Danger

Hazard statements (GHS-US)

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H350 - May cause cancer.
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-US)

P261 - Avoid breathing dust.
P280 - Wear eye protection, protective clothing, protective gloves.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
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>50 - 70</td>
<td>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. If you feel unwell, seek medical advice.
First-aid measures after skin contact  Rinse skin with water/shower. If skin irritation 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. Get immediate medical advice/attention.
First-aid measures after ingestion  Drink plenty of water. Do not induce vomiting. Get immediate medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation  May cause respiratory irritation.
Symptoms/effects after skin contact  Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact: Serious damage to eyes.
Symptoms/effects after ingestion: May cause irritation to the digestive tract.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Do not use a heavy water stream.

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: Avoid contact with skin and eyes. Do not breathe dust.

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 mechanically (sweeping, shovelling) and collect in suitable container for disposal.
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
Additional hazards when processed: Dust may form flammable and explosive mixture with air.
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 dust. Wear personal protective equipment.
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

<table>
<thead>
<tr>
<th>Storage conditions</th>
<th>Store in a dry place. Keep cool.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage temperature</td>
<td>5 - 25 °C</td>
</tr>
<tr>
<td>Special rules on packaging</td>
<td>Store in a closed container.</td>
</tr>
</tbody>
</table>

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Quartz (14808-60-7)</th>
<th>OSHA Remark (OSHA)</th>
<th>(3) See Table Z-3.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement (65997-15-1)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>ACGIH Remark (ACGIH)</td>
<td>Pulm func; resp symptoms; asthma</td>
<td></td>
</tr>
</tbody>
</table>

8.2. Exposure controls

- Appropriate engineering controls: Ensure good ventilation of the work station. Do not breathe dust.
- Personal protective equipment: Gloves. Protective clothing. Protective goggles.
  - Hand protection: Protective gloves.
  - Eye protection: Safety glasses.
  - Skin and body protection: Wear suitable protective clothing.
  - Respiratory protection: Dust production: dust mask with filter type P2.
  - Environmental exposure controls: Avoid release to the environment.
  - Other information: Do not breathe dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder.</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</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>10 - 12</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>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</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>Not applicable</td>
</tr>
</tbody>
</table>
Relative density: No data available  
Relative vapour density at 20 °C: No data available  
Density: 9.2 lb/gal  
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: 0 %  
Percent Solids: 100 %

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
No additional information available

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified  
Skin corrosion/irritation: Causes skin irritation. pH: 10 - 12  
Serious eye damage/irritation: Causes serious eye damage. pH: 10 - 12  
Respiratory or skin sensitisation: May cause an allergic skin reaction.  
Germ cell mutagenicity: Not classified  
Carcinogenicity: May cause cancer.

Quartz (14808-60-7)
IARC group: 1 - Carcinogenic to humans
SECTION 12: Ecological information

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

| Portland cement (65997-15-1) | LC50 fish 1 | > 1000 mg/l (96 h; Pisces) |

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Biochemical oxygen demand (BOD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>Chemical oxygen demand (COD)</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>ThOD</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>BOD (% of ThOD)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

| Portland cement (65997-15-1) | Bioaccumulative potential | Bioaccumulation: not applicable. |

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
## ADR  IMRG  IATA  RID

### 14.1. UN number
Not regulated for transport

### 14.2. UN proper shipping name
Not applicable  Not applicable  Not applicable  Not applicable

### 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></th>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dangerous for the enviroment :</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Marine pollutant :</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7

### 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**

All components of this product are listed, or excluded from listing, on Canadia DSL (Domestic Substance List)

**EU-Regulations**

No additional information available

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

- Skin Irrit. 2  H315
- Eye Dam. 1  H318
- Skin Sens. 1  H317
- Carc. 1A  H360
- Repr. 1A  H360
National regulations

| Quartz (14808-60-7) | Listed on IARC (International Agency for Research on Cancer) |

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

<table>
<thead>
<tr>
<th>Quartz (14808-60-7) [50-70%]</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Titanium dioxide (13463-67-7) [0.1-1%]</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lithium carbonate (554-13-2) [0.1-1%]</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>formaldehyde (50-00-0) [&lt;10ppm]</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significant risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>40 µg/day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>0.001 µg/day (inhalation) 8.2 µg/day (oral)</td>
</tr>
</tbody>
</table>

SECTION 16: Other information

Revision date

11/06/2017
Full text of H-statements:

<table>
<thead>
<tr>
<th>H315</th>
<th>Causes skin irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer.</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

NFPA health hazard:
2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard:
0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity:
0 - Material that in themselves are normally stable, even under fire conditions.

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.