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

#### 1.1. Product identifier

AFRL02; AFRL03

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

**Use of the substance/mixture**

- test dust

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

**Manufacturer**

Company name: Powder Technology Inc.  
Street: 1300 Grey Fox Road  
Place: USA-55112 Arden Hills, MN  
Telephone: +1 952 894 -8737  
e-mail: sales@powdertechnologyinc.com  
Internet: http://www.powdertechnologyinc.com

**Supplier**

Company name: fiatec Filter & Aerosol Technologie GmbH  
Street: Burgkunstadter Straße 3  
Place: D-95336 Mainleus  
Telephone: +49 9229 99 39 -0  
Telex: +49 9229 99 39 -10  
e-mail: info@fiatec.com  
Contact person: M.Eber  
e-mail: matthias.eber@fiatec.com  
Internet: www.fiatec.com  
Responsible Department: Managing Director

#### 1.4. Emergency telephone number:

Poison Information Centre Berlin: +49 30 19240

### SECTION 2: Hazards identification

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

**Regulation (EC) No. 1272/2008**

**Hazard categories:**

- Skin corrosion/irritation: Skin Irrit. 2  
- Serious eye damage/eye irritation: Eye Irrit. 2  
- Carcinogenicity: Carc. 1A  
- Specific target organ toxicity - repeated exposure: STOT RE 1

**Hazard Statements:**

- Causes skin irritation.  
- Causes serious eye irritation.  
- May cause cancer by inhalation.  
- Causes damage to organs through prolonged or repeated exposure.

#### 2.2. Label elements

**Regulation (EC) No. 1272/2008**

**Hazard components for labelling**

- silica (fine dust)  
- Feldspar

**Signal word:** Danger
Pictograms:

Hazard statements

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H350i May cause cancer by inhalation.
- H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

- P201 Obtain special instructions before use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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.
- P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards
No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>silica (fine dust)</td>
<td>35 - &lt; 40%</td>
</tr>
<tr>
<td>238-878-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>68476-25-5</td>
<td>Feldspar</td>
<td>15 - &lt; 20%</td>
</tr>
<tr>
<td>270-666-7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- Carc. 1A; H350i
- Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1; H315 H319 H335 H372

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

After inhalation
Provide fresh air. Medical treatment necessary.

After contact with skin
After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
According to Regulation (EC) No 1907/2006

Safety Data Sheet

AFRL02; AFRL03

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4.2. Most important symptoms and effects, both acute and delayed
No information available.

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
Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture
Non-flammable.

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information
Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

Advice on protection against fire and explosion
No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only.
Provide adequate ventilation as well as local exhaustion at critical locations.

Advice on storage compatibility
No special measures are necessary.

7.3. Specific end use(s)
test dust
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1317-65-3</td>
<td>Calcium carbonate, respirable</td>
<td>-</td>
<td>4</td>
<td>-</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

- **Appropriate engineering controls**
  - Provide adequate ventilation as well as local exhaust at critical locations.

- **Protective and hygiene measures**
  - Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.
  - Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Do not breathe dust.

- **Eye/face protection**
  - Suitable eye protection: goggles.

- **Hand protection**
  - Wear protective gloves.
  - When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- **Skin protection**
  - Wear suitable protective clothing.

- **Respiratory protection**
  - In case of inadequate ventilation wear respiratory protection.

- **Environmental exposure controls**
  - Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- **Physical state**: solid
- **Colour**: white - yellow
- **Odour**: characteristic
- **pH-Value**: not determined

- **Changes in the physical state**
  - Melting point: not determined
  - Initial boiling point and boiling range: not determined
  - Flash point: not applicable

- **Flammability**
  - **Solid**: not determined
  - **Gas**: not applicable

- **Explosive properties**
  - The product is not: Explosive.
Safety Data Sheet

according to Regulation (EC) No 1907/2006

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Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined
Auto-ignition temperature
Solid: not determined
Gas: not applicable
Decomposition temperature: not determined
Oxidizing properties
Not oxidising.
Vapour pressure: not determined
Density: 2,5 - 27 g/cm³
Water solubility: insoluble
Solubility in other solvents
not determined
Partition coefficient: not determined
Viscosity / dynamic: not determined
Viscosity / kinematic: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information
Odour threshold: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
No information available.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Based on available data, the classification criteria are not met.

Irritation and corrosivity
Causes skin irritation.
Causes serious eye irritation.

Sensitising effects
Based on available data, the classification criteria are not met.
Carcinogenic/mutagenic/toxic effects for reproduction
   May cause cancer by inhalation. (silica (fine dust))
   Germ cell mutagenicity: Based on available data, the classification criteria are not met.
   Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure
   Based on available data, the classification criteria are not met.

STOT-repeated exposure
   Causes damage to organs through prolonged or repeated exposure. (Feldspar)

Aspiration hazard
   Based on available data, the classification criteria are not met.

Additional information on tests
   The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity
   The product is not: Ecotoxic.

12.2. Persistence and degradability
   The product has not been tested.

12.3. Bioaccumulative potential
   The product has not been tested.

12.4. Mobility in soil
   The product has not been tested.

12.5. Results of PBT and vPvB assessment
   The product has not been tested.

12.6. Other adverse effects
   No information available.

Further information
   Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
   Advice on disposal
      Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
   Contaminated packaging
      Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)
   14.1. UN number: No dangerous good in sense of this transport regulation.
   14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
   14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
   14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)
   14.1. UN number: No dangerous good in sense of this transport regulation.
   14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
   14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.1. UN number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
Classification and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2; H315</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Eye Irrit. 2; H319</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Carc. 1A; H350i</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 1; H372</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

- **H315**: Causes skin irritation.
- **H319**: Causes serious eye irritation.
- **H335**: May cause respiratory irritation.
- **H350i**: May cause cancer by inhalation.
- **H372**: Causes damage to organs through prolonged or repeated exposure.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is sinugary responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)