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

- **1.1 Product identifier**
  - **Trade name:** InfraCrete®
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** InfraCrete GmbH
    Haegnistrasse 22
    CH-8702 Zollikon
    Tel.: +41 (0) 44 / 388 92 21
    info@infracrete.com
    www.infracrete.com
  - **Informing department:** Phone: +41 (0) 44 / 388 92 21
- **1.4 Emergency telephone number:**
  Phone +41 (0) 44 / 388 92 21
  (Office hours 09:00 - 16:00)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**
    GHS07
    Eye Irrit. 2 H319 Causes serious eye irritation.
- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
    The product is classified and labelled according to the CLP regulation.
  - **Hazard pictograms**
    GHS07
    - **Signal word** Warning
    - **Hazard statements**
      H319 Causes serious eye irritation.
    - **Precautionary statements**
      P280 Wear eye protection / face protection.
      P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
      P337+P313 If eye irritation persists: Get medical advice/attention.
- **2.3 Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description: Mixture of the substances listed below including additives not requiring identification.

Dangerous components:

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Substance</th>
<th>Workplace exposure limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1309-48-4</td>
<td>215-171-9</td>
<td>magnesium oxide</td>
<td>10 - 25%</td>
</tr>
<tr>
<td>10043-52-4</td>
<td>233-140-8</td>
<td>calcium chloride</td>
<td>10 - 25%</td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
General information: No special measures required.
After inhalation: Supply fresh air; consult doctor in case of symptoms.
After skin contact:
The product is not skin irritating.
Rinse with water.
If skin irritation continues, consult a doctor.
After eye contact:
Remove contact lenses if possible.
Rinse opened eye for several minutes under running water.
In case of permanent aches and pains please go and see the doctor.
After swallowing:
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.

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

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
The product itself does not burn.
Use fire fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents:
None known.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
Protective equipment:
No special measures required.

Additional information:
Remove goods in stock from incendiary zone, if possible.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid causing dust.
Avoid contact with the product.

6.2 Environmental precautions:
Do not allow to enter drainage system, surface or ground water.
Trade name: InfraCrete®

- **6.3 Methods and material for containment and cleaning up:**
  Collect mechanically.
  Avoid dust generation.
  Complete cleaning with water.
- **6.4 Reference to other sections**
  See Section 7 for information on safe handling
  See Section 8 for information on personal protection equipment.
  See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**
  Prevent formation of dust.
  Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
  **Storage**
  Requirements to be met by storerooms and containers: No special requirements.
  Information about storage in one common storage facility: Not required.
- **Further information about storage conditions:** Store under dry conditions.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **8.1 Control parameters**
  Components with limit values that require monitoring at the workplace:
  General threshold value for dust:
  - respirable fraction: 1,25 mg/m³
  - inhalable fraction: 10 mg/m³
  WEL: workplace exposure limit

<table>
<thead>
<tr>
<th>1309-48-4 magnesium oxide</th>
<th>WEL (Great Britain)</th>
<th>Long-term value: 10* 4** mg/m³ (as Mg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>*inhalable dust **fume and respirable dust</td>
</tr>
</tbody>
</table>

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
  **Personal protective equipment**
  **General protective and hygienic measures**
  The usual precautionary measures should be adhered to general rules for handling chemicals.
  Wash hands during breaks and at the end of the work.
  Avoid contact with the eyes and skin.
- **Breathing equipment:**
  Use a breathing protection if high concentrations are present.
  Filter P2.
- **Protection of hands:**
  Protective gloves are recommended at frequent and/or long-term skin contact with the product.
- **Material of gloves**
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**
  With solid dry substances permeation is not to be expected. Therefore the breakthrough-time for this protective glove has not been measured.

(Contd. on page 4)
Trade name: **InfraCrete®**

(Contd. from page 3)

- **For the permanent contact gloves made of the following materials are suitable:**
  - Nitrile rubber, NBR
  - Chloroprene rubber, CR
  - PVC gloves
- **Eye protection:**
  - Avoid all eye contact.
  - Where dusting potential exist, goggles should be worn.

## SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9.1 Information on basic physical and chemical properties</strong></td>
<td></td>
</tr>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td>Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Colour</td>
<td>Light grey</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>pH-value at 20 °C:</strong></td>
<td>9</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Flash point:</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Inflammability (solid, gaseous)</strong></td>
<td>Product is not inflammable.</td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong></td>
<td>Not determined</td>
</tr>
<tr>
<td><strong>Self-inflammability:</strong></td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>Explosive properties:</strong></td>
<td>Product is not explosive.</td>
</tr>
<tr>
<td><strong>Vapour pressure:</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Density at 20 °C</strong></td>
<td>1000 kg/m³</td>
</tr>
<tr>
<td><strong>Vapour density</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with Water:</strong></td>
<td>Partly soluble</td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td>dynamic:</td>
</tr>
<tr>
<td></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Solvent content:</strong></td>
<td></td>
</tr>
<tr>
<td>Solids content:</td>
<td>100.0 %</td>
</tr>
<tr>
<td><strong>9.2 Other information</strong></td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**
    - No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials** No further relevant information available.

(Contd. on page 5)
SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>Toxicant</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>1318-02-1 Zeolithe</td>
<td>&gt; 5,110 mg/kg (rat)</td>
<td>&gt; 2,000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>10043-52-4 Calcium chloride</td>
<td>2,301 mg/kg (rat) (OECD 401)</td>
<td>&gt; 5,000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

Primary irritant effect:

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

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

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

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

Anorganic product, is not eliminable from water by means of biological cleaning processes.

Other information: There are no data available about the preparation.

12.3 Bioaccumulative potential

Does not accumulate in organisms

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:

General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation
Can be reused without processing.
Trade name: InfraCrete®

The waste code numbers mentioned are recommendations based on the probable use of the product.

**European waste catalogue**

- 01 00 00 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
- 01 04 00 wastes from physical and chemical processing of non-metalliferous minerals
- 01 04 10 dusty and powdery wastes other than those mentioned in 01 04 07
- 06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES
- 06 03 00 wastes from the MFSU of salts and their solutions and metallic oxides
- 06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13

**Uncleaned packagings:**

**Recommendation:**
Dispose of packaging according to regulations on the disposal of packagings.
Non contaminated packagings can be used for recycling.

**SECTION 14: Transport information**

- **14.1 UN-Number**
  - ADR, ADN, IMDG, IATA: Void
- **14.2 UN proper shipping name**
  - ADR, ADN, IMDG, IATA: Void
- **14.3 Transport hazard class(es)**
  - ADR, ADN, IMDG, IATA: Void
- **14.4 Packing group**
  - ADR, IMDG, IATA: Void
- **14.5 Environmental hazards:**
  - Marine pollutant: No
- **14.6 Special precautions for user**
  - Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.
- **Transport/Additional information:**
  - Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - REGULATION (EC) No 1907/2006 ANNEX XVII
  Respect restrictions according to annex XVII of regulation 1907/2006 no. 54 for Inorganic ammonium salts:
  Shall not be placed on the market, or used, in cellulose insulation mixtures or cellulose insulation articles after 14 July 2018 unless the emission of ammonia from those mixtures or articles results in a concentration of less than 3 ppm by volume (2.12 mg/m³).
  Conditions of restriction: 65

(Contd. on page 7)
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: InfraCrete®

· National regulations
  · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
  · Substances of very high concern (SVHC) according to REACH, Article 57
    None of the ingredients is contained.
  · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases
  H319 Causes serious eye irritation.

· Department issuing data specification sheet:
  This Material Safety Data Sheet has been drawn up in cooperation with:
  DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
  phone: (+49) 511 42079 - 0, reach@dekra.com.
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· Abbreviations and acronyms:
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  ICAO: International Civil Aviation Organisation
  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 Harmonised 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 (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  SVHC: Substances of Very High Concern
  vPvB: very Persistent and very Bioaccumulative
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

* Data compared to the previous version altered.