1 Identification of substance

· Product details
  · Trade name: INSBLOK-19
  · Manufacturer/Supplier:
    ANH Refractories Company
    400 Fairway Drive
    Moon Township, PA 15108
    General Phone: (412)375-6600
  · Emergency information: CHEMTREC 24 HOUR EMERGENCY PHONE NUMBER: 1-800-424-9300.

2 Composition/Data on components

· Chemical characterization
  · Description: Mixture of the substances listed below with nonhazardous additions.
  · Components:
    | Component                        | Percentage |
    |----------------------------------|------------|
    | fiberglass (CAS# 65997-17-3, fibrous form) | 30-60%    |
    | 71888-52-3 hydrous alumina silicate | 10-20%    |
    | 93763-70-3 perlite volcanic glass  | 10-20%    |
    | 9005-25-8 Starch                  | 2.5-5%     |
    | 14808-60-7 crystalline silica (quartz) | 1-2.5%   |
    | 8052-42-4 Asphalt                 | 1-2.5%     |
  · Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· Hazard description:
  Toxic
· Medical conditions aggravated by exposure to the product: Asthma, chronic lung disease, and skin irritation.
· Carcinogenicity Information:
  Crystalline silica is listed by IARC as a Group 1 Carcinogen "sufficient evidence of carcinogenicity in humans", and is listed by NTP as K, "Known To Be A Human Carcinogen".
  Fibrous glass has been classified by IARC as a category 2B substance, possibly carcinogenic to humans.
· Information pertaining to particular dangers for man and environment:
  The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
  May cause cancer by inhalation.
  Irritating to eyes, respiratory system and skin.
  Toxic: danger of serious damage to health by prolonged exposure through inhalation.
· NFPA ratings (scale 0-4)
  Health = 3
  Fire = 0
  Reactivity = 0

(Contd. on page 2)
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4 First aid measures

- **After inhalation:** Move to fresh air; consult doctor if needed.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Flush eyes with water for 15 minutes. If irritation persists, consult a doctor.
- **After swallowing:**
  This product is intended for industrial applications; in the unlikely event that this product is swallowed, consult a physician if any adverse medical conditions occur.

5 Fire fighting measures

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collection:**
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
  - **Information for safe handling:**
    Ensure good ventilation/exhaust at the workplace.
    Prevent formation of dust.
  - **Information about protection against explosions and fires:** No special measures required.
- **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 product inside, out of extreme weather conditions.
### 8 Exposure controls and personal protection

<table>
<thead>
<tr>
<th><strong>Components with limit values that require monitoring at the workplace:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>93763-70-3 perlite volcanic glass</strong></td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>15* mg/m³</td>
</tr>
<tr>
<td>REL</td>
<td>10* mg/m³</td>
</tr>
<tr>
<td>TLV</td>
<td>TLV withdrawn</td>
</tr>
<tr>
<td><strong>9005-25-8 Starch</strong></td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>15* mg/m³</td>
</tr>
<tr>
<td>REL</td>
<td>10* mg/m³</td>
</tr>
<tr>
<td>TLV</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td><strong>9004-34-6 Cellulose</strong></td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>15* mg/m³</td>
</tr>
<tr>
<td>REL</td>
<td>10* mg/m³</td>
</tr>
<tr>
<td>TLV</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td><strong>14808-60-7 crystalline silica (quartz)</strong></td>
<td></td>
</tr>
<tr>
<td>PEL</td>
<td>see Quartz listing</td>
</tr>
<tr>
<td>REL</td>
<td>0.05 mg/m³</td>
</tr>
<tr>
<td>TLV</td>
<td>0.025 mg/m³</td>
</tr>
<tr>
<td><strong>8052-42-4 Asphalt</strong></td>
<td></td>
</tr>
<tr>
<td>REL</td>
<td>Short-term value: C 5 mg/m³</td>
</tr>
<tr>
<td>TLV</td>
<td>0.5 mg/m³</td>
</tr>
</tbody>
</table>

- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - Keep away from foodstuffs, beverages and feed.
    - Wash hands before breaks and at the end of work.
    - Store protective clothing separately.
    - Avoid contact with the eyes and skin.
  - **Breathing equipment:**
    - NIOSH approved respirators should be used if dust is present. A respiratory protection program should be implemented if exposures exceed OSHA PELs.
If during use or handling of this product dust is generated, suitable respiratory protection shall be used. Specific to this product, a NIOSH approved particulate respirator with an N, R, or P filter (95, 99, 100) should be used where exposure levels are below ten times exposure guidelines. See NIOSH for further information on selecting an N, R, or P filter and assigned protection factors. For exposures greater than ten times the TWA, a supplied air respirator operated in a continuous flow mode shall be used.

**Protection of hands:**

- **Protective gloves recommended**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Chemical resistant gloves recommended.

- **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**

  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Safety glasses with side shields recommended

### 9 Physical and chemical properties

**General Information**

- **Form:** Solid
- **Color:** According to product specification
- **Odor:** No specific odor.

**Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density:** Not determined.

- **Solubility in / Miscibility with Water:** Insoluble.

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
11 Toxicological information

· Acute toxicity:
  · Primary acute effects:
    · Skin contact: Irritant to skin and mucous membranes.
    · Eye contact: Irritating effect.
    · Sensitization: No sensitizing effects known.
  · Additional toxicological information:
    The product shows the following dangers according to internally approved calculation methods for preparations:
    Irritant
    Carcinogenic if inhaled.

12 Ecological information

· General notes: At present there are no ecotoxicological assessments.

13 Disposal considerations

· Recommendation for Disposal of Product:
  As sold, this product is not RCRA hazardous. Final used condition must be evaluated prior to disposal. Dispose of waste product in accordance with Federal, State and Local regulations.
  Dust created during demolition of used product may contain crystalline silica.

· Recommendation for Disposal of Uncleaned Packaging: Reuse, recycle or treat as industrial waste.

14 Transport information

· Transport/Additional information: Not dangerous according to available information.

15 Regulations

· SARA 313 TOXIC CHEMICALS
  No material listed in the components in Section 2 of this MSDS is on the SARA 313 list.

· SARA 302 EXTREMELY HAZARDOUS SUBSTANCES
  No material listed in the components in Section 2 of this MSDS is on the SARA 302 list.

· TSCA (Toxic Substances Control Act)
  This substance or all the ingredients of this product are on the Chemical Substances Inventory of the Toxic Substances Control Act (TSCA Inventory). The presence on this list does not require any legal reporting.
Trade name: INSBLOK-19

- **WHMIS Classification**
  - Class D - Division 2 - Sub Division A
    - Untested mixture containing a very toxic material
  - Class D - Division 2 - Sub Division B
    - Untested mixture containing a toxic material
  - This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

- **Cancerogenity categories**

  - **EPA (Environmental Protection Agency)**
    - None of the ingredients is listed.

  - **IARC (International Agency for Research on Cancer)**
    - 14808-60-7 crystalline silica (quartz)
    - 8052-42-4 Asphalt

  - **NTP (National Toxicology Program)**
    - 14808-60-7 crystalline silica (quartz)

  - **TLV (Threshold Limit Value established by ACGIH)**
    - 93763-70-3 perlite volcanic glass
    - 9005-25-8 Starch
    - 14808-60-7 crystalline silica (quartz)
    - 8052-42-4 Asphalt

  - **MAK (German Maximum Workplace Concentration)**
    - 14808-60-7 crystalline silica (quartz)
    - 8052-42-4 Asphalt

  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    - 14808-60-7 crystalline silica (quartz)
    - 8052-42-4 Asphalt

  - **OSHA-Ca (Occupational Safety & Health Administration)**
    - None of the ingredients is listed.

- **Classification according to EU-guidelines**

  - **Hazard symbols:**
    - Toxic

  - **Hazard-determining components of labeling:**
    - fiberglass (CAS# 65997-17-3, fibrous form)
    - crystalline silica (quartz)

  - **Risk phrases:**
    - May cause cancer by inhalation.
    - Irritating to eyes, respiratory system and skin.
    - Toxic: danger of serious damage to health by prolonged exposure through inhalation.

  - **Safety phrases:**
    - When using do not eat or drink.
    - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Trade name: INSBLOK-19

Wear suitable protective clothing and gloves.
In case of accident or if you feel unwell, seek medical advice immediately.

- National regulations:

  - The following ingredients are known in the state of California to be a cancer risk (Proposition 65):
    - fiberglass (CAS# 65997-17-3, fibrous form)
    - 14808-60-7 crystalline silica (quartz)

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Contact: Rhonda L. Vete  412-375-6848
- Creation date: 10/10/2000