1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tygasil
Use: Medium/High temperature thermal protection
Address: Fothergill Engineered Fabrics Ltd
        Summit
        Littleborough
        Lancs
        OL15 0LR
Phone: 01706 372414

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Product Description: Amorphous Silica Fibre Needlefelt (Nominal fill diam 9µ)
Composition: Fabric: >96% Amorphous silica (After drying)

3. HAZARD IDENTIFICATION

Potential Health Effects:
Ingestion: N/A
Skin Contact: May cause temporary irritation or rash
Inhalation: Irritation or soreness in throat or nose
Eye Contact: May cause temporary irritation or inflammation

4. FIRST AID MEASURES

Skin: Wash affected areas with soap and warm water
Eyes: Flush eyes with copious amounts of water for 15 mins
Inhalation: Remove to fresh air, drink water to clear throat and blow nose to evacuate fibres
Other first aid information: In all cases if irritation persists seek medical attention
# PRODUCT SAFETY DATA SHEET

## 5. FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Extinguishing media:</th>
<th>All standard fire fighting media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special fire fighting procedures:</td>
<td>None</td>
</tr>
</tbody>
</table>

## 6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Action to be taken if material is released or spilled:</th>
<th>N/A</th>
</tr>
</thead>
</table>

## 7. HANDLING AND STORAGE

<table>
<thead>
<tr>
<th>Handling precautions:</th>
<th>Minimise airborne dust</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wear a dust mask if;</td>
</tr>
<tr>
<td></td>
<td>Dust concentration exceeds local control limits or;</td>
</tr>
<tr>
<td></td>
<td>dust concentration is not known</td>
</tr>
<tr>
<td></td>
<td>Avoid contact with skin and eyes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage:</th>
<th>No special requirements</th>
</tr>
</thead>
</table>

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure controls for hazardous components:

- **Name**: Amorphous silica
- **Exposure limits**: 10 mg/m³

### Personal Protective Equipment:

- **Respiratory**: Appropriate respiratory protection if necessary
- **Hand**: Sensitive individuals may need to wear gloves
- **Eye**: Sensitive individuals may need to wear goggles
- **Skin**: Wear loose fitting long sleeved clothing
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Form: Needlefelt  Colour: White  Odour: None

Safety related information:
Boiling point/Boiling range: N/A  Flashpoint: N/A
Melting point/Melting range: 3000°F  Auto ignition temp: N/A
Specific gravity: 2.2

10. STABILITY AND REACTIVITY

Conditions to avoid: Tygasil will not undergo a phase change to crystalline silica (cristobalite) when exposed to temperatures below 1800°F. There is a possibility of conversion when the material is exposed to temperatures above this for extended periods.

Materials to avoid: Basic phosphates, alkalies, hydrofluoric acid

Hazardous decomposition products: None

11. TOXICOLOGICAL INFORMATION

Potential health effects:
Medical conditions which may be aggravated: Pre-existing upper respiratory and lung diseases may be aggravated

Target organs: Lungs, skin, eyes
Acute health effects: Mechanical irritant to skin, eyes and upper respiratory tract
Chronic health effects: None known
Primary entry routes: Inhalation, skin and eye contact
12. ECOLOGICAL INFORMATION

Silica products are not readily biodegradable
No known harmful effects on the environment

13. WASTE DISPOSAL

Dispose as solid waste according to local regulations

14. TRANSPORT INFORMATION

No special requirements

15. REGULATORY INFORMATION

Symbols: None
Risk phrases: None
Safety phrases: None

16. OTHER INFORMATION

This product data safety sheet was prepared in compliance with Council Directive 91/155/EEC, 67/548 and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

All information and instructions provided in this safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Fothergill Engineered Fabrics shall not be held responsible for any defect in the product covered by this SDS should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

13/3/07 Checked and re-issued