FIBREKLEER

Material Safety Data Sheet

1. Identification of the material and supplier

Names
- Product name: FIBREKLEER
- ADG: Not regulated.
- Manufacturer: Pentron Clinical
  - Unit 10, 112-118 Talavera Road
  - North Ryde, NSW 2113
  - Australia
  - Telephone no.: 1 800 643 603
  - Email general queries: kerraust.orders@sybrondental.com
  - Email technical queries: peter.green@sybrondental.com

- Emergency telephone number: 61 401 690 670 (24 hours)

Uses
- Area of application: Professional applications.
- Material uses: Dental product
- Product type: Solid.

2. Hazards identification

- Classification: Not regulated.
- Risk phrases: Not classified.
- Statement of hazardous/dangerous nature: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

- Mixture: Yes.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>glass, oxide, chemicals</td>
<td>65997-17-3</td>
<td>10-30</td>
</tr>
<tr>
<td>ytterbium trifluoride</td>
<td>13760-80-0</td>
<td>10-30</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First-aid measures

- Ingestion: Get medical attention.
- Skin contact: No special measures required.
- Eye contact: No special measures are required.

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5. Fire-fighting measures

**Extinguishing media**

**Suitable**
Use an extinguishing agent suitable for the surrounding fire.

**Not suitable**
None known.

**Special exposure hazards**
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

No specific fire or explosion hazard.

**Hazardous thermal decomposition products**
Decomposition products may include the following materials:
- Carbon dioxide
- Carbon monoxide
- Halogenated compounds
- Metal oxide/oxides

**Special protective equipment for fire-fighters**
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

**Personal precautions**
Put on appropriate personal protective equipment.

**Environmental precautions**
No measures required.

**Methods for cleaning up**

**Small spill**
Not applicable.

7. Handling and storage

**Handling**
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

**Storage**
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabelled containers.

**Combustible liquid**
Not applicable.

8. Exposure controls/personal protection

**Ingredient name**

**Exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>glass, oxide, chemicals</td>
<td>ACGIH TLV (United States, 6/2013). TWA: 5 mg/m³ 8 hours. Form: Inhalable fraction</td>
</tr>
<tr>
<td></td>
<td>TWA: 1 f/cc 8 hours. Form: Respirable fibers: length greater than 5 μM; aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination.</td>
</tr>
<tr>
<td>ytterbium trifluoride</td>
<td>Safe Work Australia (Australia, 4/2013). TWA: 2.5 mg/m³, (as F) 8 hours.</td>
</tr>
</tbody>
</table>

**Recommended monitoring procedures**
If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**Exposure controls**

**Engineering measures**
Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
8. Exposure controls/personal protection

Hygiene measures : No special measures are required.
Eyes : Not required under normal conditions of uses.
Hands : Not required under normal conditions of uses.
Respiratory : Not required under normal conditions of uses.
Skin : Not required under normal conditions of uses.

9. Physical and chemical properties

Physical state : Solid. [Fiber-reinforced rod]
Colour : Clear.
Odour : Odourless.
Boiling point : Not available.
Melting point : Not available.
Vapour pressure : Not available.
Relative density : 2
Flash point : Not available.
Flammable limits : Not available.
Vapour density : Not available.
pH : Not available.
Viscosity : Dynamic (room temperature): Not applicable.
            Kinematic (room temperature): Not applicable.
Auto-ignition temperature : Not available.
Solubility : Insoluble in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability : The product is stable.
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
Under normal conditions of storage and use, hazardous polymerisation will not occur.
Conditions to avoid : No specific data.
Materials to avoid : No specific data.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Potential acute health effects
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.
Acute toxicity
Conclusion/Summary : Not available.

Potential chronic health effects
Chronic toxicity
Conclusion/Summary : Not available.

Irritation/Corrosion
Conclusion/Summary : Not available.
## 11. Toxicological information

<table>
<thead>
<tr>
<th>Sensitiser</th>
<th>Conclusion/Summary : Not available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenicity</td>
<td>Conclusion/Summary : Not available.</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>Conclusion/Summary : Not available.</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Conclusion/Summary : Not available.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Conclusion/Summary : Not available.</td>
</tr>
</tbody>
</table>

| Chronic effects | : No known significant effects or critical hazards. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |

| Eyes | : No specific data. |
| Target organs | : No known significant effects or critical hazards. |

## 12. Ecological information

| Ecotoxicity | : No known significant effects or critical hazards. |
| Aquatic ecotoxicity | Conclusion/Summary : Not available. |
| Other ecological information | Conclusion/Summary : Not available. |

| Persistence/degradability | : Not available. |
| Other adverse effects | : No known significant effects or critical hazards. |

## 13. Disposal considerations

| Methods of disposal | Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |

## 14. Transport information

| International transport regulations | ADG/ADR/IMDG/IATA : Not regulated. |
15. Regulatory information

**Standard Uniform Schedule of Medicine and Poisons**

No listed substance

**Control of Scheduled Carcinogenic Substances**

No listed substance

**Australia inventory (AICS)** : Not determined.

**EU Classification** : Not classified.

16. Other information

**Person who prepared the MSDS** :

**Date of previous issue** : No previous validation

**Date of issue/ Date of revision** : 3/21/2014

**Version** : 1

Indicates information that has changed from previously issued version.

**Disclaimer**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.