# Section 1. Identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>FIBREKLEER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Not available.</td>
</tr>
<tr>
<td>Product type</td>
<td>Solid.</td>
</tr>
</tbody>
</table>

**Relevant identified uses of the substance or mixture and uses advised against**

<table>
<thead>
<tr>
<th>Product use</th>
<th>Dental product</th>
</tr>
</thead>
</table>
| 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 |

**Emergency telephone number (with hours of operation)**

- 61 401 690 670 (24 hours)

**e-mail address of person responsible for this SDS**

- peter.green@sybrondental.com

# Section 2. Hazards identification

**HSNO Classification**

- Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 46.6%

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 46.6%

This material is not classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

This material is not classified as a dangerous good according to criteria in New Zealand Standard 5433:2007 Transport of Dangerous Goods on Land.

**GHS label elements**

- **Signal word**: No signal word.

- **Hazard statements**: No known significant effects or critical hazards.

- **Precautionary statements**
  - **Prevention**: Not applicable.
  - **Response**: Not applicable.
  - **Storage**: Not applicable.
  - **Disposal**: Not applicable.

**Other hazards which do not result in classification**: None known.

# Section 3. Composition/information on ingredients

**Substance/mixture**: Mixture

**Other means of identification**: Not available.

**CAS number/other identifiers**

<table>
<thead>
<tr>
<th>CAS number</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC number</td>
<td>Mixture.</td>
</tr>
<tr>
<td>Product code</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Version**: 1  
**Date of issue/Date of revision**: 3/21/2014
Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>%</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>glass, oxide, chemicals</td>
<td>&gt;=25 - &lt;35</td>
<td>65997-17-3</td>
</tr>
<tr>
<td>ytterbium trifluoride</td>
<td>&gt;=15 - &lt;20</td>
<td>13760-80-0</td>
</tr>
<tr>
<td>Iodonium, [4-[(2-hydroxytetradecyl)oxy]phenyl]phenyl-, (OC-6-11)-hexafluoroantimonate(1-) (1:1)</td>
<td>&gt;=1 - &lt;5</td>
<td>139301-16-9</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.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

**Description of necessary first aid measures**

**Inhalation**: No special measures required.

**Ingestion**: Get medical attention.

**Skin contact**: No special measures required.

**Eye contact**: No special measures required.

**Most important symptoms/effects, acute and delayed**

**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.

**Over-exposure signs/symptoms**

**Inhalation**: No specific data.

**Ingestion**: No specific data.

**Skin**: No specific data.

**Eyes**: No specific data.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Specific treatments**: Not available.

**Notes to physician**: No specific treatment. Treat symptomatically.

**Protection of first-aiders**: No special protection is required.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

**Extinguishing media**

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

**Not suitable**: None known.

**Specific hazards arising from the chemical**

**Hazardous thermal decomposition products**: Decomposition products may include the following materials:

- carbon dioxide
- carbon monoxide
- halogenated compounds
- metal oxide/oxides

**Hazchem code**: Not available.

**Special precautions for firefighters**: 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.
**Section 5. Fire-fighting measures**

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.

**Section 6. Accidental release measures**

Personal precautions, protective equipment and emergency procedures: Put on appropriate personal protective equipment.

Environmental precautions: No special measures are required.

Methods and material for containment and cleaning up:
- Small spill: Not applicable.
- Large spill: Not applicable.

**Section 7. Handling and storage**

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. 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.

**Section 8. Exposure controls/personal protection**

Control parameters

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>glass, oxide, chemicals</td>
<td>NZ OSH (New Zealand, 2/2013). WES-TWA: 5 f/ml 8 hours. Form: inhalable fiber</td>
</tr>
<tr>
<td></td>
<td>WES-TWA: 1 f/ml 8 hours. Form: respirable fiber</td>
</tr>
<tr>
<td>ytterbium trifluoride</td>
<td>NZ OSH (New Zealand, 2/2013). WES-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.

**Appropriate engineering controls**: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls**: Not applicable.

**Individual protection measures**

- **Hygiene measures**: No special measures are required.
- **Respiratory protection**: Not required under normal conditions of uses.
- **Hand protection**: Not required under normal conditions of uses.
- **Eye protection**: Not required under normal conditions of uses.
- **Skin protection**: Not required under normal conditions of uses.
### Section 9. Physical and chemical properties

**Appearance**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid. [Fiber-reinforced rod]</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear.</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Burning point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Burning time</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>2</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in the following materials: cold water and hot water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>SADT</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Dynamic (room temperature): Not applicable. Kinematic (room temperature): Not applicable.</td>
</tr>
</tbody>
</table>

**Aerosol product**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of aerosol</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Heat of combustion</td>
<td>Not available.</td>
</tr>
<tr>
<td>Ignition distance</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Enclosed space ignition - Time equivalent</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Enclosed space ignition - Deflagration density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flame height</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flame duration</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Section 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.

**Conditions to avoid**

- No specific data.

**Incompatible materials**

- No specific data.

**Hazardous decomposition products**

- Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Under normal conditions of storage and use, hazardous polymerisation will not occur.
Section 11. Toxicological information

Information on the likely routes of exposure

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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.
Ingestion : No specific data.
Skin contact : No specific data.
Eye contact : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Acute toxicity
Not available.

Irritation/Corrosion
Not available.

Sensitisation
Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.
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.
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.
Fertility effects : No known significant effects or critical hazards.

Chronic toxicity
Not available.

Carcinogenicity
Not available.

Mutagenicity
Not available.

Teratogenicity
Not available.

Reproductive toxicity
Not available.

Specific target organ toxicity
Not available.

Aspiration hazard
Not available.

Numerical measures of toxicity

Version : 1  Date of issue/Date of revision : 3/21/2014
Section 11. Toxicological information

**Acute toxicity estimates**
Not available.

Section 12. Ecological information

**Ecotoxicity**
No known significant effects or critical hazards.

**Aquatic and terrestrial toxicity**
Not available.

**Persistence/degradability**
Not available.

**Bioaccumulative potential**
Not available.

**Mobility in soil**
Soil/water partition coefficient ($K_{oc}$) Not available.

**Other adverse effects**
No known significant effects or critical hazards.

Section 13. Disposal considerations

**Disposal methods**
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.

Section 14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Zealand Class</td>
<td>Not regulated.</td>
<td>-</td>
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<tr>
<td>ADG Class</td>
<td>Not regulated.</td>
<td>-</td>
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<tr>
<td>UN Class</td>
<td>Not regulated.</td>
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<tr>
<td>ADR/RID Class</td>
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<tr>
<td>IATA Class</td>
<td>Not regulated.</td>
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<tr>
<td>IMDG Class</td>
<td>Not regulated.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

PG*: Packing group

Section 15. Regulatory information

**New Zealand Inventory of Chemicals (NZIoC)**
Not determined.

**HSNO Approval Number**
Not available.

**HSNO Group Standard**
Not available.

**HSNO Classification**
Not classified.

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

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New Zealand
Section 15. Regulatory information

Safety, health and environmental regulations specific for the product:

No known specific national and/or regional regulations applicable to this product (including its ingredients).

Section 16. Other information

History

Date of issue/Date of revision : 3/21/2014
Date of previous issue : No previous validation
Version : 1

Key to abbreviations

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
UN = United Nations

References

GHS - Globally Harmonized System of Classification and Labeling of Chemicals
International transport regulations

Indicates information that has changed from previously issued version.

Notice to reader

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.