MATERIAL SAFETY DATA SHEET
POLYFELT WX HIGH STRENGTH GEOTEXTILES

Company and Product Identification

Manufacturer : TENCATE Geosynthetics Asia Sdn Bhd
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Products applicable : Polyfelt WX, Mirafi PET geotextiles

Description of product : High strength and quality polyester yarns to form a dimensionally stable sheet.

Important components : Improved high tenacity polyester yarns

Health hazard identification

No dangerous material according to Occupational Safety and Health Regulations (OSHA) 1994 (Exposure of Chemicals Hazardous to Health), Schedule 1 and 2. No hazard-warning label is required.

First aid measures

This product has no significant toxic hazard. Hazardous fumes are produced by combustion or high temperature decomposition.

- **Inhalation**
  In case of adverse exposure to vapours and/or aerosols formed at elevated temperatures, immediately remove the victim from exposure. Administer artificial respiration if breathing stopped. Call for prompt medical attention.

- **Skin contact**
  For burns of skin by hot or molten material, immediately immerse in or flush the affected area with large amount of cold water to dissipate heat. Cover with clean cotton sheet and get medical attention. No attempt should be made to remove material from skin or to remove contaminated clothing as the damaged flesh can be easily torn.
• **Eye contact**
  Immediately flush eyes with a directed stream of water for at least 15 minutes, while forcibly holding the eyelids to ensure complete irrigation of all eye and lid tissue. Remove foreign objects and seek medical attention if necessary.

• **Information to physicians**
  Material contains inert solids

### Fire and explosion information

• **Fire fighting procedure**
  Use water to cool fire exposed surfaces and protect personnel. Block supply to the fire. Extinguish fire by water spray, carbon dioxide or dry chemical.

• **Special fire precaution**
  Respiratory and eye protection gear required for fire fighting personnel.

• **Combustion products or gases produced**
  Water, CO\(_2\), if oxygen is deficient CO will also be produced. The products of combustion are irritating and partly toxic.

### Accidental release measures

<table>
<thead>
<tr>
<th>Safety measures related to human</th>
<th>None and not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental measures</td>
<td>None and not applicable. In case of spillage either in land or water, remove material physically and consult expert on disposal of recovered material and ensure conformity to local disposal regulations</td>
</tr>
</tbody>
</table>

### Handling and storage

<table>
<thead>
<tr>
<th>Storage temperature</th>
<th>Ambient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transport temperature</td>
<td>Ambient</td>
</tr>
<tr>
<td>Loading and unloading temperature</td>
<td>Ambient</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Storage transport pressure</td>
<td>Atmospheric</td>
</tr>
<tr>
<td>Shipping requirements</td>
<td>Normal containers, trucks. No official marking necessary.</td>
</tr>
<tr>
<td>Storage</td>
<td>Store in cool and shaded area well ventilated. Do not store near open flame, source of heat or ignition. If possible store elevated in area of damp ground. (Refer to Method Statement on Recommended Storage and Handling of Geosynthetics).</td>
</tr>
<tr>
<td>Handling</td>
<td>(Refer to Method Statement on Recommended Storage and Handling of Geosynthetics).</td>
</tr>
</tbody>
</table>

### Exposure controls/human protection

Large ventilated area for mobility of humans. Under normal conditions there is no health risk to human.
Physical and chemical properties

Form : textile sheet (fleece)
Colour : white
Smell : odourless

Data relevant to safety:

<table>
<thead>
<tr>
<th>Property</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change in condition</td>
<td>Unit</td>
<td>Polyester</td>
</tr>
<tr>
<td>Melting point or range</td>
<td>°C</td>
<td>260 - 270</td>
</tr>
<tr>
<td>Ignition temperature (PP)</td>
<td>°C</td>
<td>520</td>
</tr>
<tr>
<td>Density</td>
<td>g/cm³</td>
<td>approx. 1.2</td>
</tr>
<tr>
<td>Solubility</td>
<td></td>
<td>Insoluble in water</td>
</tr>
</tbody>
</table>

Stability and reactivity

Hazardous polymerization : No
Stability : Stable
Materials and conditions to avoid : Temperature over 100 °C

Statement about toxicology

Polyesters are classified as non toxic products under OSHA Regulations 2000 (Exposure of Chemicals Hazardous to Health), Schedule 1 and 2.

Statement on ecology

Polyesters are environmentally friendly and classified as non toxic under OSHA Regulations 2000 (Exposure of Chemicals Hazardous to Health), Schedule 1 and 2.

Information about disposal

Recommended way of disposal : Reuse of melted material, disposal in landfills or combustion in suitable treatment plant.
Bye-Laws

No dangerous material according to Occupational Safety and Health Act and Regulations, Law of Malaysia, Amendments up to February, 2002.

Note:
The information in this certificate relates only to the specific material designated and may not be valid for material used in combination with any other materials or in any process. The information given is to the best of our knowledge accurate and reliable as of the date indicated. The information describe only the safety request for our product and do not guarantee any product properties.

Dr. KH Loke
General Manager
TenCate Geosynthetics Asia

Jan 2008