

## MATERIAL SAFETY DATA SHEET

### POLYFELT PEC HIGH STRENGTH GEOTEXTILES

#### Company and Product Identification

Manufacturer	:	TENCATE Geosynthetics Asia Sdn Bhd 14 Jalan Sementa 27/91, Seksyen 27 40400 Shah Alam Selangor MALAYSIA Tel: ++603 5192 8568 Fax: ++603 5192 8575
Products applicable	:	Polyfelt PEC geotextiles, Geodetect
Description of product	:	Composite high strength geotextiles
Important components	:	Improved high tenacity polyester yarns and nonwoven polypropylene geotextile (Polyester yarns stitched on polypropylene geotextile)

#### 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<sub>2</sub>, if oxygen is deficient CO will also be produced. The products of combustion are irritating and partly toxic.

## Accidental release measures

Safety measures related to human	:	None and not applicable
Environmental measures	:	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

## Handling and storage

Storage temperature	:	Ambient
Transport temperature	:	Ambient
Loading and unloading temperature	:	Ambient
Viscosity	:	Not applicable
Storage transport pressure	:	Atmospheric
Shipping requirements	:	Normal containers, trucks. No official marking necessary.
Storage	:	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).
Handling	:	(Refer to Method Statement on Recommended Storage and Handling of Geosynthetics).

## 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 : grey  
Smell : odourless

Data relevant to safety:

Change in condition	Unit	Polypropylene	Polyester
Melting point or range	°C	160-166	260 - 270
Ignition temperature (PP)	°C	approx. 420	520
Density	g/cm <sup>3</sup>	approx. 0.9	approx. 1.2
Solubility		Insoluble in water	Insoluble in water

## 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**