

Bentofix[®] X2

made of polypropylene fibres, bentonite and polyethylene coating

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1 Identification of the substance/preparation and company

1.1 Trade name: BENTOFIX[®] X2 products (made of polypropylene fibres, polyethylene coating and bentonite)

1.2 Manufacturer/Supplier: NAUE GmbH & Co. KG
Gewerbestr. 2
D – 32339 Espelkamp-Fiestel
Phone: ** 49 (57 43) 41 - 0
Fax: ** 49 (57 43) 41 - 333

Emergency address:
Or contact information centre for toxicology, i. e. Berlin
see also: manufacturer/supplier
Phone: ** 49 (30) 19240

2 Composition Information on ingredients

Chemical characterization/description: Geosynthetic clay liner. Composite of geotextiles made of polypropylene, polyethylene (LLD) coating and bentonite (aluminium hydro-silicate)

Substances presenting a health hazard: not applicable

3 Possible hazards

Hazards identification: not applicable

4 First-aid measures

not applicable

5 Fire-fighting measures

Suitable extinguishing media: Water spray stream
Foam
CO₂ extinguishing powder/snow
ABC powder extinguishing
Spray Cooling
coal dioxyde

Special exposure hazards arising from the substance, its combustion products or resulting gases:

Carbon monoxide (CO), carbon dioxide (CO₂), acids, ketones, aldehydes, hydrocarbons and heterocycles

6 Accidental release measures

Personal precaution: No special measures necessary.
Environmental precaution: No special measures necessary.
Methods for cleaning up: Mechanical cleaning.

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7 Handling and storage

Handling: No special measures necessary.
Storage: No special requirements.

8 Exposure controls and personal protection during preparation of the product

Respiratory protection: No special requirements.
Hand protection: No special requirements.
Eye protection: No special requirements.
Skin protection: No special requirements.

9 Physical and chemical properties

Appearance/condition of aggregation: Geotextile/solid

Colour: white or multi-coloured
Odour: odourless
pH-value: not applicable

	Value	Unit
Melting point/melting range:	approx. 165, approx. 130	°C
Flash point:	-	
Inflammability:	- , approx. 440	°C
Temperature of decomposition:	-	°C
Density at 20 °C:	approx. 0.90, approx. 0.95	g/cm ³
Solubility/miscibility in/with water:	insoluble	

Coating:

Colour: off white
Odour: slight sweet
pH-value: not applicable
Relative density: 910 – 950 kg/m³
Bulk density: 300 – 650 kg/m³
Melting point/range: 115 – 132 °C
Softening point/range: 110 – 130 °C
Decomposition temp.: >300 °C
Flash point: >345 °C
Auto ignition temp.: >330 °C
Solubility in water: insoluble

10 Stability and reactivity

Conditions to avoid: -

Hazardous decomposition products: in case of combustion carbon monoxide/
carbon dioxide may develop

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11 Toxicological information

Effects which can arise in contact with skin: No irritation.
Effects which can arise in contact with eye: No irritation.

12 Ecological information

General advice: At present no effects are known.

13 Disposal considerations

Product: Residual material or excavated geotextiles resp. can either be disposed together with soil materials on landfill sites for debris, or with their high thermal values processed into secondary fuels and can be used in the production of cement and energy as a replacement for fossil raw materials.

Contaminated packaging: Contaminated packaging can also either be disposed together with soil materials on landfill sites for debris, or with their high thermal values processed into secondary fuels and can be used in the production of cement and energy as a replacement for fossil raw materials.

14 Transport information

Transport: No dangerous goods according to national and international transport regulations.

15 Regulatory information

Label according to the directive: No labelling is necessary according to the regulation of the European Community.

16 Other information

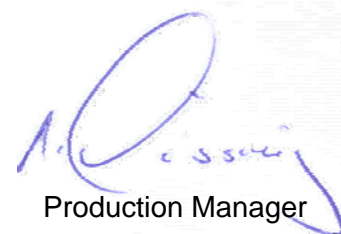
All data are based on our present knowledge, but do not represent a guarantee of product properties and do not create a contractual legal relationship.

Person to contact: Mr. Henning Ehrenberg, Mr. Norbert Vissing
Phone: ** 49 (57 43) 41 - 326 or 41 - 421

NAUE GmbH & Co. KG
Gewerbestr. 2
D - 32339 Espelkamp-Fiestel



Quality Manager



Production Manager