# MATERIAL DATA SHEET

## Polyurethane foam

<table>
<thead>
<tr>
<th>Date of Issue:</th>
<th>28th July 1998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version:</td>
<td>25th January 2002</td>
</tr>
</tbody>
</table>

### Product:
Flexible Polyurethane Foam

### Manufacturer:
FOAMPARTNER
Fritz Nauer AG
Obervolhausstr. 3
CH-8033 Wolhusen
Tel. ++41 (0)55 253 63 63
Fax ++41 (0)55 253 63 73

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1. **Chemical description**
   Polyurethane foams are polyaddition products of isocyanates, polyester/polyether polycyls, additives and water.

2. **Ingredients**
   This product contains no labelled substances and no FCKW.

3. **Hazard Identification**
   Formation of decomposition products such as aliphatic and aromatic hydrocarbons, hydrogen cyanides, NOₓ, CO and CO₂ in fires.

4. **First Aid Measures**
   No special measures are required.

5. **Fire Fighting Measures**
   The product is a combustible material and causes, when burning, intense heat and dense smoke.
   The product can, when heated also melt and flammable decomposition products can be generated. In a fire, decomposition products such as carbon black, carbon monoxide, carbon dioxide, hydrogen cyanides and nitrogen containing products can be generated in various concentrations depending on the combustion conditions. Also corrosive gases could be generated if foam grade contains flame retardants.
   Suitable fire extinguishers are: Water, CO₂, dry powder, liquid foam.
   Fire fighters should use self-contained breathing apparatus.

6. **Handling and Storage**
   No special measures are required. However, users of foam in quantity should ensure that they comply with local regulations regarding storage and use.

7. **Exposure Controls and Personal Protection**
   Special protective equipment and clothing is not necessary when handling foam.

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Safety Information of flexible PU-foam
MATERIAL DATA SHEET

Polyurethane Foam

Date of Issue: 29th July 1998
Version: 26th January 2002

8. Physical and chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Open cell, flexible foam</td>
</tr>
<tr>
<td>Colour</td>
<td>Varies</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild odour</td>
</tr>
<tr>
<td>Density</td>
<td>18 - 180 kg/m³</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt; 120°C</td>
</tr>
<tr>
<td>Flash ignition point</td>
<td>&gt; 400°C</td>
</tr>
<tr>
<td>Stability and reactivity</td>
<td>The product is stable at temperatures between -40°C and +80°C</td>
</tr>
</tbody>
</table>

9. Toxicological data

<table>
<thead>
<tr>
<th>Route</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>There is no evidence that PU foam is toxic orally.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>LD₅₀ to ₅₀₆₆ mg/m³ &gt; 5000mg/m³</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Chronic inhalation of polyurethane dust particles could cause lung infection.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>No adverse effects known following contact with PU foam Dust particles can cause mechanical irritation.</td>
</tr>
</tbody>
</table>

10. Ecological Information

In the aquatic environment, flexible polyurethane foam will present few problems due to its insolubility.

In the soil environment, natural bacteria and fungi will aid biodegradation.

11. Disposal Considerations

Scrap or post consumer PU foam waste can be disposed of at licensed landfill sites or by incineration under controlled conditions.

12. Transport Information

The product is not classified for conveyance or supply under the Carriage of Dangerous Goods (classification, packaging and labeling) and Use of Transportable Pressure Receptacles Regulations 1996. The product is not classified as hazardous for any mode of transportation under current EU/UN regulations by applying the appropriate test method.

13. Other Information

none.

The data given here is based on our current knowledge and experience. The data does not signify any warranty with regard to the product's properties.

Safety Information of Open PU foam