Safety Data Sheet
Thermaflex Flexalen Corrugated Tubes
Vers. 1/04

1. Identification of

1.1 Product Thermaflex Flexalen Corrugated Tubes

1.2 Company Production plant NL
Thermaflex Isolatie bv
Industrieterrein Haven
Veerweg 1
P.O. Box 531
5140 AM Waalwijk
The Netherlands
tel. +31 - 416 567777
fax. +31 - 416 567788
Safety responsible: Gerrit-Jan Baars

1.3 Emergency phone number Do call Thermaflex Isolatie bv
+31 - 416 567736
Maikel Renders
2. **Product description:** Thermaflex Flexalen Corrugated Tubes are produced in a continuous extrusion process. Thermaflex Flexalen Corrugated Tube is based on polyolefin polymers (HDPE).

3. **Hazards identification**

   HDPE will burn when provided with an adequate amount of heat and oxygen; therefore do not expose the material to any flame or other source of ignition or heat.

   Inhalation: When burning, smoke cause mechanical irritation on the respiratory tract. Coughing.

   Skin Contact: Material is unlikely to cause irritation, but if contact with molten material occurs, treat as for thermal burn (see also section 4).

   Eyes: Smoke can cause mechanical irritation; Red Eyes. Contact with hot or molten material may cause severe injury.

4. **First aid measures**

   After contact to skin or eyes: No special measures. See 11 toxicological information

   In case of fire: if smoke gases are inhaled, which contain mainly carbon dioxide (CO₂) and carbon monoxide (CO): Fresh air and possibly artificial respiration (call immediately a doctor) are the recommended measures.

   If headache, nausea or vomiting occur, contact a doctor.

   If body skin is burned through contact with molten Corrugated Tube: Cool burned parts with water, but do not remove the material from the skin. If skin burn grad 2 or 3 is reached: call immediately a doctor.

   In case of ingestion: no danger of toxicity; this material is biologically inactive.

5. **Fire fighting measures**

   Fire extinguishing mediums are:

   Water spray, extinguishing foam, CO₂-extinguisher.

   Use respirator/oxygen masks in enclosed areas.

   Avoid dense smoke and do not inhale the smoke gases from combustion.

   Use safety glasses and protect skin/body with protective clothing against molten Thermaflex Flexalen Corrugated tubes.
<table>
<thead>
<tr>
<th></th>
<th>Accidental release measures</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.</td>
<td>Handling and storage</td>
<td></td>
</tr>
<tr>
<td>7.1</td>
<td>Handling</td>
<td>Practice reasonable care as a normal safety precaution. Fabrication areas should be well ventilated to carry away fumes, vapours and dust. Operatives should be assured of a supply of fresh air. The working environment should be kept clean and free of dust.</td>
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<tr>
<td>7.2</td>
<td>Storage Practice</td>
<td>reasonable care and cleanliness; provide adequate distance between stacks as a safety precaution. Do not expose to any source of flame, ignition or heat.</td>
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</tbody>
</table>
| 8. | Exposure controls/personal protection | Hand protection:  
Wear gloves (cotton, wool or leather), when working in fabrication areas utilising heat processes, to prevent from possible thermal injury from hot material.  

Eye protection:  
Use goggles or face masks, when working in fabrication areas utilising heat processes, to prevent possible contact with hot material and thermal injury.  

Body protection:  
Wear clothes and shoes, to protect the full bodyskin, especially when working in fabrication areas utilising heat processes, to prevent possible thermal injury (burns). |
9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid (at +20 °C)</td>
</tr>
<tr>
<td>Form</td>
<td>Corrugated Tube</td>
</tr>
<tr>
<td>Colour</td>
<td>Black</td>
</tr>
<tr>
<td>Odour</td>
<td>Weak paraffinic</td>
</tr>
<tr>
<td>Melting Point</td>
<td>120-150 °C</td>
</tr>
<tr>
<td>Decomposition Temp.:</td>
<td>&gt;300 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;350 °C</td>
</tr>
<tr>
<td>Auto Ignition Temp.:</td>
<td>&gt;160 °C</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>none</td>
</tr>
<tr>
<td>Apparent density:</td>
<td>30-35 kg/m³</td>
</tr>
<tr>
<td>Solubility in: water:</td>
<td>insoluble</td>
</tr>
<tr>
<td>organic solv.:</td>
<td>insoluble (only soluble in some aromatic hydrocarbons and/or n-paraffines (&gt;C₁₄) at high temperatures)</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Avoid any temperature >120 °C.
Avoid any contact with strong oxidising chemicals.
Dangerous decomposition products: decomposition gases/vapours in heat fabrication processes; combustion gases in case of fire.

11. Toxicological information

Toxicologically harmless.

12. Ecological information

Environmentally harmless:
- insoluble in water: no contamination
- insoluble in most solvents
- degradable only by UV light (very low UV degradability)

13. Recycling & Disposal Considerations

Recycling: 100% recyclable to be used in own products.
Disposal: When disposing of any wastes, observe all applicable national and local regulations.

14. Transport information

No restriction and non dangerous material in relation to transportation regulations according to regulations ADR/RID, IMO and IATA

15. Other information

For additional product information contact Thermoflex Isolatie BV.