Identification of the Product and Company

- **Trade Name**: PTFE Thread Seal Tape
- **Use**: Thread Sealing
- **Transmitter Department**: Environment and Safety

Composition/Information of the Components

- **Preparation/Chemical Nature**: Polytetrafluoroethylene (PTFE) unsintered, purity >99.50% (residual oil content)
- **Hazardous Components**: None
- **Classification of the Preparation**: N.A.

Hazards Identification

- **Principal Hazards**: None
- **Specifics Risks**: None

First Aid Measures

- **Inhalation**: In case of inhalation of products thermal decomposition, bring the patient to fresh air area and keep him calm. Take medical treatment.

  *Instructions for the doctor*: Symptoms: Inhalation of thermal decomposition products can give rise to fever with shivers, headaches, suffocation and cough. Symptoms would disappear in less than 48 hours and the effects are not cumulative.

Fire Fighting Measures

- **Extinguishing Mean**: All types of extinguisher
- **Specifics Hazards**: Emission of hazardous decomposition gases
- **Special Protection Equipment for Fire Fighting**: To carry an independent respiratory apparatus
Accidental Release Measures

- **Personal Precautions**: None
- **Precautions for Environment Protection**: None

Handling And Storage

- **Handling**: No particular recommendation
- **Storage**: No particular recommendation

Exposure Controls/Personal Protection

- **Hygiene Measures**: Do not smoke during manipulation
  To keep away from smoking products
  In case of high temperature manipulation >300ºC, exhausting systems for decomposition gases would be needed.

Physical And Chemical Properties

- **Physical State**: Tape
- **Colour**: Natural
- **Odour**: Without
- **PH Value**: N.A.
- **Boiling Point**: N.A.
- **Fusion Point**: =340ºC
- **Flash Point**: N.A.
- **Flammability**: N.A.
- **Self-Ignition Temperature**: N.A.
- **Explosion Hazards**: N.A.
- **Comburantes Properties**: N.A.
- **Vapour Pressure**: N.A.
- **Relative Density**: 0.50 to 1.80 g/cm³
- **Solubility**: Not soluble
- **Vapour Density**: N.A.
- **Viscosity**: N.A.
- **Miscibility**: N.A.
- **Conductivity**: N.A.
- **Evaporation Rate**: N.A.

Stability And Reactivity

- **Stability**: Thermal decomposition >300ºC

- **Hazardous Decomposition Products**: Hydrogen fluoride, Carbon oxyfluoride, Tetrafluoroethylene, Hexafluoropropylene, Perfluorisobutylene
Note: List not restrictive, dependent on climatic conditions.

**Toxicological Information**

- **Local Effect:** See chapter 4

**Ecotoxicologicals Information**

- **Ecotoxics Effects:** Without effect
- **Environment Behaviour:** Not harmful effect for the environment

**Disposal Considerations**

- **Waste:** May be evacuated by controlled rubbish’s according to local regulation. May be incinerated according to the local regulation. A suitable scrubber to eliminate the fluoro-derivatives might be necessary.
- **Contaminated Packages:** N.A.
  In any cases, respect local regulations and national regulations in force.

**Transport Information**

Product no hazardous in transport regulations.

**Regulatory Information**

- **Labelling In Accordance With The Managerial EEC:** No subjected to regulatory labelling.
Properties:
Thread seal tape is a conveniently applied sealant and lubricant for threaded joints. It can be used effectively with plastic, brass, copper, aluminium galvanized steel, or black iron pipes. Thread seal tape does not harden or dry out so joints will not freeze up. It is effective from -190°C to +370°C. Use it in place of messy compounds.

Features:
- Waterproof non-stick surface
- Resistant to enzymatic and microbiological attack
- Chemically pure and inert state which means an unequalled resistance to water, gases, solvents, acids, alkalis and other reactive media
- Resistant to cracking
- Lubricity that prevents sticking of pipes

Applications:
- Industry and mechanical construction
- Plumbing
- Automobile and aerospace industry
- Hydraulic and pneumatic systems

Directions for use:
- Place end of tape on pipe thread ¼ inch (2mm) from end of pipe.
- Wrap tape around pipe stretching slightly to pull tape into the thread.
- Slightly overlap on the starting turn.
- Cover all threads and pull hard to tear the tape.
- Assemble joint.
Physical/Chemical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Properties</td>
<td>100.0% virgin PTFE</td>
</tr>
<tr>
<td>Density</td>
<td>0.35 g/cm³</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.076mm (+/-0.01)</td>
</tr>
<tr>
<td>Pressure Rating</td>
<td>Up to 30 bars</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-190°C to +370°C</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>8n/mm²</td>
</tr>
</tbody>
</table>

Performance Tests/Uses – Finished Products:

- All tapes must meet BDM requirements
- Tapes provide a uniform seal around threads
- No tears or cuts in material
- EN – 751 Grade L 1995 (formerly BS 7786)
- Shelf Life of 5 Years
- WRAS

See document. BSI UDC 678.943:621.762.8 for full standards information
0800
GAS PTFE TAPE

DESCRIPTION: Manufactured from virgin Unsintered Fluorocarbon, Polytetrafluoroethylene, and is wound onto a plastic spool, this tape has no adhesive coating.

APPLICATION For use on thread where conformity to British gas council standard 1M/16 is required and as a single wrap PTFE tape has very good ageing insulation and corrosion resistance characteristics. Can be used on oxygen threads.

SPEC:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>0.2 mm</td>
</tr>
<tr>
<td>Density</td>
<td>0.9g/cm³</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>8N/mm²</td>
</tr>
</tbody>
</table>

Residual Lubricant Content
For BS21 Threads up to 50 mm: less than 0.1% by mass

Service Temperature: -190 °C to +370 °C
Pressure Resistance: up to 30 bars
Conforms to: BS 7786: 1995, BS6974: 1989, BGC 1M/16, BS5292 Type'C'

Percentage Elongation: 25%
Manufacturers Status: ISO9002
Shelf life: 5 Years

See document. BSI UDC 678.943:621.762.8 for full standards information