

# MATERIAL SAFETY DATA SHEET

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Product Name: **SealXpert™ Expanded PTFE Tape**  
MSDS No: 161

Revision No: 1

Issued by : Yogesh  
Issue Date: 8 December 2014

## Section 1 – Company Details

**Company Name:** SealXpert™ Products

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Singapore 415979

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## Section 2 – Composition

Description: expanded Polytetrafluorethylen tape, with adhesive backing

- Shape: flat or round gasket – tape
- Colour: white
- Odour: none

Hazardous Ingredients: combustion produces hydrogen fluoride

## Section 3 – Hazards Identification

When submitted to temperatures above 260° C hazardous fumes may occur. Toxic gases evolve above 400° C. These can give rise to a characteristic syndrome like influenza (shivering fit, fever, sore throat) which might occur several hours after inhaling the toxic gases and which will subside within 36 to 48 hours. These symptoms are known as „polymer fume fever.

## Section 4 – First Aid Measures

After inhaling thermal decomposition product:

Move afflicted person(s) immediately from danger area to fresh air.

The wearing of respiratory protection equipment is necessary in the danger area !

Medical supervision necessary!

## Section 5 – Fire Fighting Measures

Little fire hazard

Suitable extinguishing media: water etc.

Hazards of the material itself, it's decomposition products or gases: hydrogen fluoride

Use self contained breathing apparatus

## Section 6 – Accidental Release Measures

**Danger of slipping:** Remove spilled product immediately.

**In case of thermal decomposition:** Avoid inhalation of gases and fumes.

**Disposal of waste:** Dispose to the usual recycling process. Do not burn.

## Section 7 – Handling and Storage

**Handling:** Follow usual precaution and security measures when handling this product.  
No smoking is allowed in rooms where PTFE is processed.  
Avoid contact with open fire and hot surfaces, toxic substances might be set free.

**Storage:** Cover the product to avoid deposition of dust.

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## Section 8 – Exposure Controls / Personal Protection

<b>General protection and hygiene conditions:</b>	No smoking during processing
<b>Respiratory protection:</b>	Release of gases or fumes because of thermal decomposition requires immediate supply of fresh air. For persons recovery, use of self contained breathing apparatus is essential
<b>Protection of hands:</b>	Not necessary
<b>Eye protection:</b>	Not necessary
<b>Body protection:</b>	Not necessary

## Section 9 – Physical and Chemical Characteristics

<b>Shape:</b>	flat or round gasket - tape
<b>Colour:</b>	white
<b>Odour:</b>	none
<b>Flash point:</b>	n/a
<b>Ignition temperature:</b>	500 – 560 ° C
<b>Explosion limits:</b>	not explosive
<b>Density:</b>	0,65 g/cm <sup>3</sup> +/-0,1 g/cm <sup>3</sup>
<b>Thermal decomposition:</b>	starts above 260° C – (toxic gases and fumes)
<b>chemical resistance:</b>	against all media (pH 0 – 14), except molten alkali metals and fluorine compounds at high temperature and pressure

## Section 10 – Stability and Reactivity

**Hazardous decomposition products:** hydrogen fluoride, tetrafluoroethylene, perfluoroisobutene, hexafluoropropene.

Thermal decomposition starts above 260° C, chemical decomposition through molten alkali metals and elementary fluorine at high temperatures and pressures only.

## Section 11 – Toxicological Information

No toxicological examination was made yet.

After inhaling thermal decomposition products (toxic gases) “polymer fume fever“ may occur as described under item 3.

## Section 12 – Ecological Information

No known harmful effects on the environment

The substance is not water-soluble.

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## Section 13 – Disposal Considerations

Use recycling process. The product may be incinerated at temperatures above 800°C if a separator for hydrogen fluoride is installed.

**Marking of waste :**      waste of synthetic material containing fluorine

## Section 14 – Transport Information

**Transportation:**              Not classified as Dangerous Goods and can be transported by Road, Rail and Air.  
The item is not restricted or not regulated as per IATA.

## Section 15 – Regulatory Information

Avoid temperatures above 260° C.!

## Section 16 – Other Information

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not product specification. The information in this data sheet was compiled from the information supplied by the vendors of the components of this compound.

This company makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended in the specific context of the intended use and determine whether they are appropriate. This company assumes no responsibility for injury from the use of the product described herein. This information is intended only to assist in the safe handling of this material.