

## Section 1 – Chemical Product and Company Identification

**Product Name:** Style DX 550ex Expanded Virgin PTFE gasket sheet

**Chemical Name:** multi-directionally expanded Polytetrafluorethylen sheet

**Product Use:** Jointing material

**Manufacturer Information:** DXSeal, Inc.

DXSeal, Inc.

P.O. Box 223

Vienna, OH 44473

(330) 856-4635

Emergency Contacts: Kathy Thomas

**Prepared By**

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**Preparation Date:** January 24, 2007

**Supercedes:**

## Section 2 – Composition/Ingredient Information

Description: multi-directionally expanded Polytetrafluorethylen sheet

a.1 Shape: flat gasket sheet

a.2 Colour: white

a.3 Odour: none

Hazardous Ingredients: combustion produces hydrogen flouride

## 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**

- a). 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.
- b). Storage:  
Cover the product to avoid deposition of dust.

#### **Section 8 – Exposure Controls / Personal Protection**

- General protection and hygiene conditions:  
No smoking during processing.
- Respiratory protection:  
Release of gases or fumes because of the thermal decomposition requires immediate supply of fresh air. For persons recovery, use of self contained breathing apparatus is essential.

- Protection of hands:  
Not necessary
- Eye protection:  
Not necessary
- Body protection:  
Not necessary

### Section 9 – Physical and Chemical Properties

- Shape: flat gasket – sheet  
colour: white  
Odour: none
- Flash point: n/a
- Ignition temperature: 500 - 560°C
- Explosion limits: not explosive
- Density: 0.90 g/cm<sup>3</sup>
- thermal decomposition: starts above 260°C – (toxic gases and fumes)
- chemical resistance: against all media (pH 0 – 14), except molten alkali metals and fluorine compounds at high temperature and pressure.

### Section 10 – Chemical Stability & Reactivity Information

Hazardous decomposition products: hydrogen fluoride, tetrafluorethylene, 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.

### 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 – Transportation Information

No special precautions required.

### Section 15 – Regulatory Information

Avoid temperatures above 260°C

### Section 16 – Other Information

If further information required please contact Producer/Supplier stated in item 1.

All information contained are based on our actual state of knowledge and do not involve guarantee of production properties. Laws and regulations are to be followed by product consignee under his own liability.