

# Safety Data Sheet

Product name: T 1777

Date of issue:	15 January 2005	Date of revision:	18 September 2015
<b>1. Product and company identification</b>			
Product name	:	<b>T 1777</b>	
Company	:	<b>Freudenberg Performance Materials L.P.</b>	
		3500 Industrial Dr. Durham, NC 27704	
Telephone	:	(919) 620-3900	
Fax	:	(919) 620-3992	
	:	www.freudenberg-pm.com	
<b>2. Possible hazards</b>			
<b>EMERGENCY OVERVIEW:</b> No hazardous product under normal conditions			
<b>POTENTIAL HEALTH EFFECTS:</b>			
<b>Acute Eye:</b> No known effects, not tested.			
<b>Acute Skin:</b> No known effects, not tested.			
<b>Acute Inhalation:</b> No known effects, not tested.			
<b>Acute Ingestion:</b> No known effects, not tested.			
<b>Special hazard reference:</b> <i>Thermal composition and/or (partially) melting state can present hazards, see pt. 10</i>			
<b>3. Composition / information on ingredients</b>			
<b>Description</b>	:	<i>Wet-laid nonwoven, chemically bonded.</i>	
<b>Main components</b>	:	<i>Fibre type(s) : C-glass Binder type(s) : Polyacrylate</i>	
<b>Side components, additives</b>	:	<i>Fibre additives (e.g. spin finishes, etc.) Process auxiliaries (e.g. dispersing agents, defoamer, etc.)</i>	
<b>Finishings</b>	:	<i>None</i>	
<b>Further information</b>	:	<i>None</i>	
<b>4. First-aid measures</b>			
<b>EYES:</b> <i>no specific measures to be taken.</i>			
<b>SKIN EXPOSURE:</b> <i>no specific measures to be taken</i>			
<b>INHALATION:</b> <i>no specific measures to be taken.</i>			
<b>INGESTION:</b> <i>no specific measures to be taken.</i>			
<b>NOTES TO PHYSICIAN:</b> <i>no specific measures to be taken</i>			
<b>5. Firefighting measures</b>			

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**FLASH POINT:** 350-400°C (for PET)**EXPLOSIVE LIMITS (EL):** N/A**Lower EL:** N/A**Upper EL:** N/A**EXTINGUISHING MEDIA:** *All common extinguishing media (e.g. water, CO<sub>2</sub>, sand)***PERSONAL PROTECTIVE EQUIPMENT:** Self-contained breathing apparatus is recommended.**SPECIAL PROCEDURES:** Ref. to formation of flammable and toxic combustion products, as well as skin contact with molten material, see pt. 10.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None known. Product will burn under fire conditions.**HAZARDOUS DECOMPOSITION MATERIALS (UNDER FIRE CONDITIONS):** None.

## 6. Measures if released unintentionally

**Personal precautions :** *No specific measures to be taken***Environmental precautions :** No specific measure to be taken**Methods for cleaning up :** No specific measure to be taken**Further information :** None

## 7. Handling and storage

**Handling :** *Ref. to exposure controls and personal protection in case of mechanical-thermal treatment / processing, see part. 8, otherwise no specific measures to be taken.***explosion :** None Known**Storage :** Storage under cool, dry and light-protected conditions is recommended (storage temperature max. 40°C, avoidance of high relative air humidity, formation of condensed water and direct solar radiation).

## 8. Expose controls and personal protective equipment

**Technical protective measure** : *During mechanical-thermal processing (e.g. grinding, cutting, laminating), irritant (fibre) dusts and traces of irritant volatile components may possibly be released. In these cases vacuum equipment should be present or at least proper ventilation should be implemented..***Exposure control limits at work stations** : No Specified Control Limits**Personal protective equipment**

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Respiratory protection	: To avoid breathing dust, use Respirator
Hand protection	: To avoid skin contact, wear rubber gloves or, cotton gloves
Eye protection	: To avoid eye contact, wear safety glasses with side shields
Skin protection	: avoidance of intense skin contact is recommended, otherwise no specific measures to be taken.
<b>General safety and hygiene measures</b>	: Precautions similar to handling of chemicals are recommend
<b>9. Physical and chemical properties</b>	
Appearance	: Solid
Color	: White
Odor	: No specific odor
<b>Changes in physical state</b>	
Boiling point/Boiling range	(°C) : Some parts may evaporate above 85°C
Melting point	(°C) : not tested
Freezing temperature	(°C) : Can stiffen and freeze below 0 deg C
Flash point	(°C) : Not Tested
Ignition temperature	(°C) : Not Tested
Auto ignition	: Not applicable
Explosion hazard	: Not applicable
Explosion limits	(Vol.-%) : Not applicable
Vapour pressure(mbar)	: Not applicable
Density	(g/cm <sup>3</sup> ) : not tested
Bulk density	(kg/m <sup>3</sup> ) :
Solubility in water	: Insoluble in water
Solubility in other solvents	: Insoluble in most organic solvents
pH-value	: Not applicable
Viscosity	: Not applicable Solid State
<b>10. Stability and reactivity</b>	
<b>CHEMICAL STABILITY:</b>	Stable at normal temperatures and storage conditions.
<b>HAZARDOUS POLYMERIZATION:</b>	None known. Should not occur.
<b>CONDITIONS TO AVOID:</b>	<i>Product may (at least partially) melt and / or decompose at temperatures above ca. 250°C. Decomposition is enhanced resp. accelerated in case of contact with below mentioned substances to avoid..</i>
<b>Substances to avoid :</b>	Strong alkalis, strong (oxidizing) acids
<b>CHEMICAL INCOMPATIBILITY:</b>	Avoid strong acids and bases. Avoid oxidizing agents.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	<i>Under thermal-chemical decomposition resp. in case of fire flammable and toxic fumes may be generated (as e.g. carbon-monoxide (CO)). Type and amount of decomposition and oxidation products are subjected to specific (fire) conditions.</i>
<b>11. Toxicological information</b>	
Acute toxicity	: Not tested
Specific symptoms in animal experiments:	Not tested
Irritation effects	: Not tested

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Sensitization	: Not tested
Subacute to chronic toxicity	: Not tested
Carcinogenicity, mutagenicity, teratogenicity	: Not tested
Information from practical experience	: Not tested
Additional information	: Under thermal-chemical decomposition resp. in case of fire toxic substances may be generated, see pt. 10.
<b>12. Ecological information</b>	
<b>Biodegradability</b>	: Not tested
<b>Ecotoxicity</b>	: Not tested
<b>Further ecological information</b>	: In event of fire, unburned residues as well as contaminated extinguishing media must be disposed of in compliance with existing regulations.
<b>13. Disposal considerations</b>	
<b>Product</b>	: Product can be disposed of as a non-Hazardous solid waste.
<b>Disposal code number</b>	:
<b>AVV-Code</b>	: <b>040222</b>
<b>14. Transport information</b>	
Not classified as dangerous in terms of transport regulations.	
<b>15. Regulatory information</b>	
Labeling according to EC-regulation	: Not regulated (Nonwoven material).
national directives	: Not regulated (Nonwoven material).
<b>16. Other information</b>	
<p>The information contained herein is based on the present state of knowledge and does not therefore guarantee certain properties. The safety data sheet only describes the products in aspect to their safety requirements. Recipients of our products must take on responsibility for observing existing laws and regulations.</p> <p>09/18/2015 Rev2: Updated Company Name</p>	