

PRODUCT NAME: PTFE Semifinished PTFE Products	Code Nr
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1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION		
1.1 Material Identification:	CAS Number	%
POLYTETRAFLUOROETHYLENE	9002-84-0	100
1.2 Company Identification:		
Manufacturer/Distributor	GAPI s.r.l. via Marconi 108 I 24060 Castelli Calepio (BG), ITALY	
	ph	+39 035 84 70 84
	fax	+39 035 84 84 67
1.3 UK Distributor:		
	theplasticshop.co.uk 16 Bayton Road Coventry, CV7 9EJ UK	

2. COMPOSITION/INFORMATION ON INGREDIENTS	
2.1 Material:	PTFE (POLYTETRAFLUOROETHYLENE)

3. HAZARDS IDENTIFICATION	
3.1	The primary hazard associated with these polymers is the inhalation of fumes from overheating or burning Heating PTFE above 300 degrees C may liberate a fine particulate fume
3.2	Polymer fume fever, a temporary flu-like condition with fever chills, nausea, shortness of breath, chest tightness, muscle or joint ache.
3.3	The symptoms are often delayed 4 to 24 hours after exposure. These signs are generally temporary, lasting 24-48 hours and resolve without further complications.
3.4	However, some individuals with repeat episodes of polymer fume have reported persistent pulmonary effects. Exposure to decomposition products from PTFE heated above 400 degrees C may cause pulmonary inflammation, hemorrhage or oedema.
3.5	These more serious consequences of exposure may occur from extreme thermal decomposition of PTFE which can liberate fume particles, and toxic gases especially under condition of poor ventilation and/or confined spaces.
3.6	These decomposition products may initially produce chest tightness or pain, chills, fever, nausea, with shortness of breath, cough, wheezing and progression into pulmonary oedema.

4. FIRST-AID MEASURES	
4.1 Inhalation: Polymer fume fever, a temporary flu-like condition with fever chills, nausea, shortness of breath, chest tightness, muscle or joint ache.	No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult the physician if necessary. If exposed to fumes from over heating or combustion, move to fresh air. Consult the physician if symptoms persist.
4.2 Skin contact: Irritation, pain or blurred vision may result.	The compound is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.

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4.3 Eye contact Irritation, pain or blurred vision may result.	In case of contact, immediately flush eyes with plenty of water. Call a physician
4.4 Ingestion: No toxic.	No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Obtain medical attention if necessary.

5. FIRE-FIGHTING MEASURES	
5.1 Extinguishing Media:	As appropriate for surrounding materials/equipment.
5.2 Equipment:	Wear self-contained apparatus. Wear full protective equipment (antacid). Hydrogen fluoride fumes emitted during a fire can react with water to form hydrofluoric acid.
5.3 Risk:	If a flame is applied to the material it will ignite but if the flame is removed then combustion ceases. Combustion or thermal decomposition will evolve very toxic and corrosive vapours (example HF e COF ₂)

6. ACCIDENTAL RELEASE MEASURES	
6.1	No risk.

7. HANDLING AND STORAGE	
7.1 Handling	Usual protective clothing must be worn Avoid to use material at high temperature (280°C) and Care should be taken to prevent inhalation of fume When using do not smoke
7.2 Storage	Extra care should be taken to prevent burns from contact with hot material, contact with hot surface and with naked flames

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1 Occupational Exposure limits during thermal decomposition of material	
Hydrofluoric acid (HF)	TLV = 2,6mg/m ³ (Threshold Limit Value)
Carbonyl fluoride (CO F ₂)	TLV = 5,4 mg/m ³ (Threshold Limit Value)
8.2 Personal Protection Inhalation	
	Eye/Face protection : Wear safety glasses. Wear coverall chemical splash goggles and face shield when possibility exist for eye and face contact to splashing or spraying of molten material.
	Body: Wear heat resistant clothing and footwear.
8.3 Engineering Controls	
	Ventilation Use local ventilation exhaust to completely remove vapours and fumes liberated during processing from the work area.

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9. PHYSICAL AND CHEMICAL PROPERTIES	
Form	Solid tubing
Density	2,17 gr/cm3
Melting Point	327/335°C
Explosion	Not
Solubility	Not in water or in organic solvent

10. STABILITY AND REACTIVITY	
10.1 Stable at normal temperatures and storage conditions.	
10.2 Extra care should be taken to prevent heating up 350°C, to prevent burns from contact with flame s hot material, contact with hot surface and naked	

11. TOXICOLOGICAL INFORMATION	
11.1 In usual condition harmful effects for man are not knowed.	
11.2 PTFE has not cangerogenic effect.	
11.3 The thermal decomposition products are toxic	

12. ECOLOGICAL INFORMATION	
12.1 No risk of environmental pollution.	
12.2 When PTFE is burned decomposition products begin to be emissoned.	

13. WASTE DISPOSAL	
13.1 No specific risk. If possible to recycle is suggested.	
13.2 Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulation.	

14. TRANSPORT INFORMATION	
14.1 Not classified as Hazardous for transport. Only risk is when PTFE burns.	

15. REGULATORY INFORMATION	
15.1 Regulation CEE	Directive CEE 67/548 and subsequent amendments
15.2 Italian Regulation	DPR 303/56 Health controls

16. OTHER INFORMATION	
The data sheet was prepared in accordance with the Directive CEE 91/155	