



# PTFE

## Material Handling Sheet

<b>1.1 Product Identification</b>	
Tradename	PTFE
<b>1.2 Company Identification</b>	
Address	Direct Plastics Ltd Rother Valley Way Holbrook Sheffield S20 3RW
Emergency Number	0114 2560889 (during office hours)

<b>2.1 Composition</b>	
Chemical Composition	Article based on Polytetrafluoroethylene (PTFE), possibly containing glass fibre, reinforcing materials, fillers, pigments, dyes & additives.
<b>2.2 Information on Ingredients</b>	
This product contains no dangerous components	

<b>3. Potential Risks</b>	
This product is not harmful	

**Direct Plastics Ltd. Rother Valley Way, Holbrook, Sheffield, S20 3RW**  
**Tel: 0114 2560889 Email: sales@directplastics.co.uk**

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4. First Aid Measures	
Inhalation	After accidental inhalation of fumes or thermal decomposition products, using self-protection (short term filter mask type B, or breathing apparatus), remove person from the danger zone. Keep warm and quiet in fresh air. Seek medical help immediately. Symptoms of poisoning often first appear after some hours.
Skin Contact	After contact with molten polymer, immediately cool with cold water for a prolonged time. Remove affected clothing. Do not peel polymer from skin. Cover burns with sterile dressings. Obtain medical attention. For skin irritation caused by glass fibre thoroughly wash the affected area with water, do not rub.
Eye Contact	If a foreign body (splinter, chip) enters the eye do not rub. Rinse immediately with plenty of water. Seek medical attention

5. Fire Fighting Measures	
Suitable Extinguishing Media	Water, foam, dry powder, carbon dioxide
Unsuitable Extinguishing Media	None known
Special Protective Equipment For Firefighting	Wear self-contained breathing apparatus and protective clothes to prevent contact with skin and eyes
Additional Advice	This product is difficult to ignite and is auto extinguishing. But in case of fire, with thermal decomposition toxic, acidic and combustible gasses and steam are released.

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	Water used to extinguish the fire and fire remainders must be collected. Fire hydrants must be controlled and water disposed of, in accordance with local regulations

<b>6. Accidental Release Measures</b>	
Environmental Precautions	Before entry of swarf waste to sewage it should be mechanically cleaned of product remainders.
Methods For Cleaning Up	Mechanical

<b>7.1 Handling</b>	
General Advice	Avoid overheating of material by improper handling Avoid dust generation
Technical Measures	For mechanical operations local extraction / ventilation is recommended to ensure that less than the 8.1 limit is achieved. Where dust is produced, measures must be taken to avoid static electricity discharge.
<b>7.2 Storage</b>	
General Advice	The appropriate company regulations for fire prevention are to be followed
Special Requirements	Large amounts of product should not be stored with inflammable materials. If in a fire, polymers containing fluorine can cause relatively toxic gasses to be released

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<b>8.1 Exposure Controls</b>	
Guidelines For Materials Within The Working Place	For mechanical operations the following are to be observed: General dust limit value: Inhalable dust: 10mg/m <sup>3</sup> Respirable dust: 6mg/m <sup>3</sup>
<b>8.2 Personal Protection</b>	
Respiratory Protection	During dusty operations use respiratory protection (dust mask P2)
Eye Protection	For mechanical operations wear safety glasses with side pieces
Skin Protection	Skin protection should be used (barrier cream). Persons sensitive to glass fibre should wear leather protective gloves. For mechanical processing of glass fibre reinforced products loose fitting, tight work clothes should be worn.
Hygiene Measures	General industrial hygiene regulations are to be observed.

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	Wash hands before breaks and at the end of workday. Tobacco should not be kept in the workplace. Do not eat, drink or smoke in the workplace.
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<b>9. Exposure Controls</b>	
Form	Solid (semi-finished or finished parts)
Colour	Various, dependent on colourant
Odour	Odourless
Density (20°C)	2,18-2,21 g/cm <sup>3</sup> DIN 53479
Melting Point/Range	327°C DIN53765
Decomposition Temperature	400°C
Ignition Temperature	>500°C ASTM-D 1929
Explosion Limits	Not applicable
Solubility (20°C)	Insoluble in water

<b>10. Stability &amp; Reactivity</b>	
Conditions to Avoid	Temperatures >400 °C (Start of the thermal decomposition)
Substances to Avoid	
Hazards Decomposition Products	According to the fire conditions toxic gasses develop, predominantly carbon dioxide, carbon monoxide, hydrofluoric acid, tetrafluoroethylene, hexafluoro-propylene, perfluoroisobutylene, carbonyl fluoride and other low-molecular fluorohydrocarbons
Additional Information	None

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### 11. Toxicological Information

With proper use and in accordance with regulations there are no known dangers to health.

Contact with molten product can cause burns.

With mechanical operations free glass fibre or dust can cause skin, respiratory and eye irritation. By following the r there is little or no likelihood of inhaling fibre.

Slight inhalation of thermal decomposition products or smoking contaminated tobacco can cause „fluorine polymer fever“ after 2 - 6 hours (allergenic alveolaritis with influenza-like symptoms: high temperature, shivering, chest pain, cough, increased pulse). Treatment is generally not necessary, symptoms disappear after 48 hours.

The result of massive inhalation of thermal decomposition products (in temperatures > 450 °C) is that after a symp

### 12. Ecological Information

Because of insolubility in water separation by filtration or sedimentation is possible.

### 13. Disposal Considerations

Uncontaminated product can be recycled.

If no use is possible, product waste can, in accordance with official local regulations, be mixed with household waste and incinerated in an appropriate place. Burning is only allowed when fluoridic hydrogen has been removed by flue gas washing.

Waste product code No. for uncontaminated product (European waste catalogue): 20 01 39

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### 14. Transport Information

Not classified as dangerous in the meaning of transport regulations.

### 15. EU Guidelines

No warning necessary.

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