



Nylon 6

Material Handling Sheet

1.1 Product Identification	
Tradename	Nylon 6
1.2 Company Identification	
Address	Direct Plastics Ltd Rother Valley Way Holbrook Sheffield S20 3RW
Emergency Number	0114 2560889 (during office hours)

2.1 Composition	
Chemical Composition	Article based on Polyamide 6 (PA 6), possibly containing glass fibre, carbon fibre, reinforcing materials, fillers, pigments, dyes & additives.
2.2 Information on Ingredients	
This product contains no dangerous components	

3. Potential Risks	
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, remove the person from the danger zone and apply artificial respiration if necessary. Seek medical help, keep quiet and warm.
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
Additional Advice	This product ignites in a flame and continues to burn on removal of the source. With thermal decomposition toxic and combustible gasses and steam are released. There is a danger of the fire spreading through spontaneous ignition of the gaseous decomposition products. Molten product must therefore be cooled with water.

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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.

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

7.1 Handling	
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.
7.2 Storage	
General Advice	The appropriate company regulations for fire prevention are to be followed
Special Requirements	None

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8.1 Exposure Controls	
Guidelines For Materials Within The Working Place	For mechanical operations the following are to be observed: General dust limit value: Inhalable dust: 10mg/m ³ Respirable dust: 6mg/m ³
8.2 Personal Protection	
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 Wash hands before breaks and at the end of the workday Do not eat, drink or smoke in the workplace

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9. Exposure Controls	
Form	Solid (semi-finished or finished parts)
Colour	Various, dependent on colourant
Odour	Odourless
Density (20°C)	1,13-1,56 g/cm ³ DIN 53479
Melting Point/Range	220°C DIN53765
Decomposition Temperature	>300°C
Ignition Temperature	>400°C ASTM-D 1929
Explosion Limits	Not applicable
Solubility (20°C)	Insoluble in water In organic solution applications insoluble

10. Stability & Reactivity	
Conditions to Avoid	Temperatures >300 °C (Start of the thermal decomposition)
Substances to Avoid	Concentrated or strong oxidizing acids (e.g. concentrated sulphuric acid)
Hazards Decomposition Products	With carbonization and incomplete combustion toxic gasses develop, predomi-nantly carbon dioxide and carbon monoxide. In addition nitric oxide, amine, am-monia, ε-caprolactum, nitrile, aliphatic and aromatic hydrocarbons, aldehyde, hydrogen cyanide, sulphur dioxide can be generated, as well as small quantities of ketone and acids.
Additional Information	None

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.

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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.

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

Incinerated in an appropriate place.

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

14. Transport Information

Not classified as dangerous in the meaning of transport regulations.

15. EU Guidelines

No warning necessary.

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