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**EU-MATERIAL SAFETY DATA SHEET**

according to guidelines 91/155/EWG

issue 010/06 from 17.03.04  
replaces 010/05  
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**NYLON 6 EXTRUDED (NATURAL)**

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**1.1 MATERIAL/PRODUCT IDENTIFICATION**

TRADENAME: NYLON 6 EXTRUDED (NATURAL)

**1.2 COMPANY IDENTIFICATION**

Direct Plastics Online  
Unit 7, Portland Business Park  
Richmond Park Road  
Sheffield  
S13 8HS  
Tel. 0845 838 3318

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**2.1 COMPOSITION**

CHEMICAL COMPOSITION: Based on polyamide 6 (PA 6), possibly containing glass fibre, reinforcing materials, fillers, pigments, dyes, additives.

**2.2 INFORMATION ON INGREDIENTS**

This product contains no dangerous components.

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**3. POTENTIAL RISKS**

This product is not harmful.

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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 and 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.

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**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.  
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.

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**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

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**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 WORKINGPLACE:  
For mechanical operations the following are to be observed (TRGS 900, Standard 2000)

Respirable dust: MAC 6 mg/m<sup>3</sup>

**8.2 PERSONAL PROTECTION**

RESPIRATORY PROTECTION: During dusty operations use respiratory protection (e.g. filter mask with P1 filter)

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 workday.  
Do not eat, drink or smoke in the workplace.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

FORM: Solid (semifinished or finished parts)

COLOUR: Various, dependent on colourant

ODOUR: Odourless

DENSITY (20 °C): 1,13 - 1,55 g/cm<sup>3</sup> DIN 53479

MELTING POINT/RANGE: 220 °C DIN 53765

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

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**10. STABILITY AND 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, predominantly carbon dioxide and carbon monoxide. In addition nitric oxide, amine, ammonia, 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

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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 rules there is little or no likelihood of inhaling fibre.

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**12. ECOLOGICAL INFORMATION**

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

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**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 or incinerated in an appropriate place.  
Waste product code No. for uncontaminated product (European waste catalogue): 20 01 06 other plastics

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**14. TRANSPORT INFORMATION**

Not classified as dangerous in the meaning of transport regulations.

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**15.1 EU GUIDELINES**

No warning necessary.

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**16. OTHER INFORMATION**

This data sheet is valid for  
NYLON 6 EXTRUDED (NATURAL)  
NYLON 6 EXTRUDED (BLACK)  
NYLON 6 CAST (BLACK)

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This statement is valid for pure product. It is based on our current knowledge and offers no assurance of properties. It is the user's responsibility to ensure that existing legislation and regulations are followed.

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