

# Nylon 6 Rod - Safety Data Sheet



1.	Substance/preparation and Company detail	<p>Polycaprolactam</p> <p>Oadby Plastics Elland Road, Braunstone Frith Industrial Estate, Leicester, LE3 1TU 0116 232 1010</p>
2.	Composition / Indications to components	<p><b>Chemical characterization :</b> Polyamide 6 (PA6) <b>Hazardous substances:</b> Product contains no hazardous ingredients liable to be disclosed.</p>
3.	Possible dangers	<p><b>Classification :</b> Not classified <b>Physical/ chemical hazards :</b> Flammable <b>Health risks:</b> Dust can cause mechanical irritation. <b>Hazards for the environment:</b> Based on our information, there is no danger to the environment. The product is according to Directive 1999/45/EC and its annexes are not classified as dangerous.</p>
4.	First-aid measures	<p><b>General information:</b> The product is being classified as non-toxic. <b>In case of inhalation :</b> In case the plastic burns and combustion gases are inhaled, remove person to fresh air and keep warm and get medical help if necessary. <b>In case of skin contact:</b> Burns caused by molten material on skin need to be rapidly cooled down with water; do not attempt removal of plastic without medical assistance. If irritation develops, seek medical attention. <b>In case of eye contact:</b> Flush eyes well with copious quantities of water. Seek medical attention, if irritation persists. <b>In case of ingestion:</b> The product is non-toxic; no first aid procedures are required.</p>
5.	Fire-fighting measures	<p><b>Suitable extinguishing media :</b> Water, foam, gaseous and dry extinguishing media <b>Particular endangerments by :</b> Hazardous combustion products may emerge, apart from harmless <b>Fire fighting and hazardous Water (H<sub>2</sub>O); carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO) and Combustion products oxygen how hydrogen cyanide (HCN). Formation of further decomposition and oxidation products depends upon the fire conditions. Under special fire conditions traces of other toxic substances are possible. Fire fighting:</b> Approved pressure demand breathing apparatus and protective clothing should be used for all fires. <b>Additional Information:</b> Residues after the fire, after appropriate rules dispose.</p>
6.	Measures in case of unintended release	<p><b>Personal precautions :</b> N/A <b>Environmental precaution :</b> N/A <b>Methods for cleaning up :</b> Mechanical removal</p>
7.	Handling and storage	<p><b>Advice on safe handling:</b> During machining of the stock shapes, evacuate swarf to prevent slipping or tripping. <b>Storage:</b> Store inert product dry and cool. Keep storage and working areas sufficiently ventilated. Keep away form source of flame, heat and ignition. Due to the risk of collapsing, do not stack more than 2 pallets on to of each other. Pallets should not stack on to of each other along aisles.</p>
8.	Limitation of exposition	<p><b>Ingredients with :</b> none <b>Personal (body) protection General protective and :</b> Keep the workplace sufficiently ventilated; thereby smoking; <b>Hygiene measures</b> eating and drinking are not allowed. Continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Avoid breathing in gaseous degradation products and dust that may result by material overheating. <b>Hand protection :</b> Safety gloves in case of contact with warm material <b>Eye protection :</b> Safety goggles or shield during machining <b>Body protection :</b> Working clothes <b>Respiratory protection :</b> Adequate ventilation at workplace is required</p>

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9.	Physical and chemical characteristics	<p><b>Physical state</b> (rods, hollow rods and plates)  <b>Aggregate</b> : solid  <b>Colour</b> : product-specific  <b>Odour</b> : slight, product specific  <b>Safety related facts</b>  <b>Boiling point</b> : N/A  <b>Melting point</b> : 220 °C (DIN/EN/ISO 3146)  <b>Corrosion temperature</b> : &gt; 350 °C  <b>Flash point</b> : 390 °C  <b>Self ignition temperature</b> : &gt; 400 °C (ASTM D1929)  <b>Explosion hazard or limit</b> : non explosive  <b>Oxidizing characteristics</b> : None  <b>Density</b> (20 °C) : 1.15 g/cm<sup>3</sup> (ISO 1183)  <b>Solubility</b> (in Water 20 °C) : insoluble  <b>Viscosity</b> : N/A  <b>Additional Information</b> : None</p>
10.	Stability and reactivity	<p><b>Conditions to avoid</b> : Temperatures above melting point  <b>Material to avoid</b> : Strong oxidant  <b>Hazardous decomposition</b> : Carbon monoxide CAS-Nr. 630-08-0  <b>products</b> Hydrogen cyanide (HCN) CAS-Nr. 74-90-8  Ammonia (NH<sub>3</sub>) CAS-Nr. 7664-41-7</p>
11.	Toxic information	<p><b>Toxicology</b>: Based on our experience and information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses.  <b>Primary Irritation on skin</b> : N/A  <b>Primary Irritation on eyes</b> : N/A  <b>Sensitization</b> : not known  <b>Practical Tests</b> : N/A  <b>Additional information</b> : N/A</p>
12.	Ecological information	The material does not harm the environment but is not biologically degradable.
13.	Waste-disposal information	The product must be disposed in accordance with the local authorities.
14.	Transport information	Not classified as hazardous under transport regulations.
15.	Regulation	<p><b>European regulations (Identification)</b>  The product does not require a hazard warning label in accordance with EC directives.  <b>National regulations (Germany)</b>  <b>GefStoffV</b> : No identification necessary  <b>WHG</b> : No water imperilling in terms of VwVwS</p>
16.	Further information	The information is based on our current knowledge. They are meant to describe our products in respect to safety requirements. They do not represent any guarantee of the described product in the sense of the legal guarantee regulations.