

PETG - Safety Data Sheet



1.	Substance/preparation and Company detail	<p>Polyethylene terephthalate Glycol (PETG)</p> <p>Oadby Plastics Elland Road, Braunstone Frith Industrial Estate, Leicester, LE3 1TU 0116 232 1010</p>
2.	Composition / Indications to components	<p>Polymer Polyethylene terephthalate Glycol (PETG) Copolyester CAS-N° 25640-14-6 UV-Additives, Colorants</p>
3.	Possible dangers	No obligation to label in accordance to EU directive 1999/45/EG
4.	First-aid measures	<p>On inhalation of decomposition products: Keep patient calm, remove to fresh air and seek medical help</p> <p>On skin contact: Areas affected by molten material should be quickly placed under cold running water, do not remove the material and seek immediate medical help.</p> <p>Medical notes: On inhalation of decomposition products: Treat according to symptoms (decontamination, vital functions), no known specific antidote.</p>
5.	Fire-fighting measures	<p>Suitable extinguishing media: water, dry extinguishing media, foam, carbon dioxide</p> <p>Special protective equipment: In case of fire, wear a self contained breathing apparatus.</p> <p>Further information: Dispose of fire residues and contaminated extinguishing water in accordance to local regulations.</p>
6.	Measures in case of unintended release	Methods for cleaning up: Sweep/shovel up.
7.	Handling and storage	<p>Handling Ensure good ventilation and local exhaustion of the working area. In case of mechanical operations (drill, saw, mill) the instructions/limited values for handling fine dust are to be observed (VDI guideline 3673, 2263) (Germany) MAK-value (mill): 6 mg/m³.</p> <p>Storage In original packing, protected against environmental impacts, keep in a dry place.</p>
8.	Limitation of exposition	<p>Personal protective equipment In case of usual handling, no special protective equipment will be necessary. Under consideration of applied work technique it may be mandatory to use: Respiratory protection: dust filter type P1 in case of fine dust creation. Skin protection: safety gloves, in case rough edges may cause cuts Eye protection: safety glasses or complete face protection</p> <p>General safety and hygiene measures No general safety and hygiene measures necessary</p>
9.	Physical and chemical characteristics	<p>Colour: clear or coloured Odour: odourless <u>Change in physical state</u> Softening point: > 70 °C ISO 306 Ignition temperature: > 400 °C ASTM E-659 / DIN 51794 Fire promoting properties: None Density: 1,27 g/cm³ ISO 1183 Bulk density: n. a. kg/m³ Solubility in water: Insoluble Solubility in other solvents: Soluble in organic solvents</p>

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10.	Stability and reactivity	<p>Start of thermal decomposition: at 270°C Thermal decomposition, burning or faulty handling may diffuse noxious gases and vapours. Thermal decompositions release monomers, carbon dioxide, carbon monoxide, steam. Avoid thermal decomposition, do not overheat. Incompatibility: material reacts with oxidising agents.</p>														
11.	Toxic information	<p>Acute toxicity: no data existing, except those mentioned below: Water-insoluble</p> <p>Material Tests:</p> <table border="0"> <tr> <td>LD-50, oral: (male rat)</td> <td>>3,200 mg/kg (highest dose rate tested)</td> </tr> <tr> <td>LD-50, oral: (male mouse)</td> <td>>3,200 mg/kg (highest dose rate tested)</td> </tr> <tr> <td>Dermal LD-50: (Guinea pig)</td> <td>>1,000 mg/kg</td> </tr> <tr> <td>Skin irritation (guinea pig)</td> <td>Slight irritation</td> </tr> <tr> <td>Irritation of eyes (rabbit, unwashed eyes)</td> <td>Slight</td> </tr> <tr> <td>Irritation of eyes (rabbit, washed eyes)</td> <td>Slight</td> </tr> <tr> <td>Guinea pig</td> <td>None</td> </tr> </table> <p>Additional information: In our experience and according to information available to us the product is not harmful to health provided it is correctly handled and processed according to the given recommendations.</p>	LD-50, oral: (male rat)	>3,200 mg/kg (highest dose rate tested)	LD-50, oral: (male mouse)	>3,200 mg/kg (highest dose rate tested)	Dermal LD-50: (Guinea pig)	>1,000 mg/kg	Skin irritation (guinea pig)	Slight irritation	Irritation of eyes (rabbit, unwashed eyes)	Slight	Irritation of eyes (rabbit, washed eyes)	Slight	Guinea pig	None
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12.	Ecological information	<p>Behaviour and environmental effects Due to the consistency of the product, and its insolubility in water, it will apparently not be bio-available.</p>														
13.	Waste-disposal information	<p>The product is qualified for material recycling. After suitable treatment the material can again be melted and processed. The product can be dumped or incinerated in accordance to local regulations. Disposal code EAK-Code: 120 105 (sraps from mechanical forming, processing) EAK-Code: 170 203 (scap-parts, oddments)</p>														
14.	Transport information	<p>Not classified as hazardous under transport regulations.</p>														
15.	Regulation	<p>Labelling according to EU Directives Not subject to labelling National legislation / regulations Not classified according to German "Hazardous Substance" regulations (Germany). Water hazard class: WGK (0) (Germany)</p>														
16.	Further information	<p>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.</p>														