

Acrylic Cast - Safety Data Sheet



the people for plastics

1.	Substance/preparation and Company detail	<p>Acrylic Cast</p> <p>Oadby Plastics Elland Road, Braunstone Frith Industrial Estate, Leicester, LE3 1TU 0116 232 1010</p>												
2.	Composition / Indications to components	<p>Chemical nature: Polymethyl methacrylate - Copolymer Polymethyl methacrylate >98% CAS-No. 9011-14-7 Methyl methacrylate <2% CAS-No. 80-62-6 Ethyl acrylate <0.1% CAS-No. 140-88-5 Contains: light stabilizing agents, colorants, pigments and releasing agents.</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. Fire and explosion protection: no specific measures must be taken.</p> <p>Storage In original packing, protected against environmental impacts, keep in a dry place.</p>												
8.	Limitation of exposition	<p>The following can be released when the product is processed (traces): Components with workplace control parameters.</p> <table border="1" data-bbox="550 1489 1476 1713"> <tr> <td data-bbox="550 1489 726 1579">Traces of Methyl Methacrylate</td> <td data-bbox="726 1489 869 1579">210mg/m³</td> <td data-bbox="869 1489 1029 1579">50ppm</td> <td data-bbox="1029 1489 1173 1579">CAS-No 80-62-6</td> <td data-bbox="1173 1489 1332 1579">EG-No 201-297-1</td> <td data-bbox="1332 1489 1476 1579">R36/37/38, R43</td> </tr> <tr> <td data-bbox="550 1579 726 1713">Traces of Ethyl Acrylate</td> <td data-bbox="726 1579 869 1713">21mg/m³</td> <td data-bbox="869 1579 1029 1713">5ppm</td> <td data-bbox="1029 1579 1173 1713">CAS-No 96-33-3</td> <td data-bbox="1173 1579 1332 1713">EG-No 205-438-8</td> <td data-bbox="1332 1579 1476 1713">R11, R36/37/38, R43, S 20/21/22.</td> </tr> </table> <p>Threshold odour value of decomposition products: 1- 5 ppm Explosion limits of decomposition products: 1.8 – 12.5 Vol% The relevant MAK values should be observed (Germany) TRGS 900 (Germany). Given suitable ventilation, it can be assumed that the threshold limits will not be reached.</p> <p><u>Personal protective equipment</u> 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><u>General safety and hygiene measures</u> No general safety and hygiene measures necessary</p>	Traces of Methyl Methacrylate	210mg/m ³	50ppm	CAS-No 80-62-6	EG-No 201-297-1	R36/37/38, R43	Traces of Ethyl Acrylate	21mg/m ³	5ppm	CAS-No 96-33-3	EG-No 205-438-8	R11, R36/37/38, R43, S 20/21/22.
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9.	Physical and chemical characteristics	<p>Colour: clear or coloured Odour: odourless Change in physical state Softening point > 110 °C ISO 306 (Method A) Ignition temperature > 425 °C DIN 51794 Fire promoting properties none Density 1.19 g/cm³ ISO 1183 Bulk density n. a. kg/m³ Solubility in water insoluble Solubility in other solvents soluble in organic solvents</p>
10.	Stability and reactivity	<p>Start of thermal decomposition: at 350°C Thermal decomposition, burning or faulty handling may diffuse noxious gases and vapours. Thermal decompositions release carbon dioxide, carbon monoxide, monomers, steam and other degradation products. Avoid thermal decomposition, do not overheat. When burning, the material is classified F1 (AFNOR NFX 70-100 and NFF 16-101)</p>
11.	Toxic information	<p>Acute toxicity: No data available, insoluble in water 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>
12.	Ecological information	<p><u>Behaviour and environmental effects</u> 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 (waste from mechanical forming, processing) EAK-Code: 170 203 (waste-parts, oddments)</p>
14.	Transport information	<p>Not classified as hazardous under transport regulations.</p>
15.	Regulation	<p><u>Labelling according to EU Directives</u> Not subject to labelling <u>National legislation / regulations</u> 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>