

# Acrylic Sheet Cast Safety Sheet

Clear



1.	Substance/preparation	Acrylic Cast
2.	Composition / Indications to components	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.
3.	Possible dangers	No obligation to label in accordance to EU directive 1999/45/EG
4.	First-aid measures	<b>On inhalation of decomposition products:</b> Keep patient calm, remove to fresh air and seek medical help <b>On skin contact:</b> Areas affected by molten material should be quickly placed under cold running water, do not remove the material and seek immediate medical help. <b>Medical notes:</b> On inhalation of decomposition products: Treat according to symptoms (decontamination, vital functions), no known specific antidote.
5.	Fire-fighting measures	Suitable extinguishing media: water, dry extinguishing media, foam, carbon dioxide Special protective equipment: In case of fire, wear a self contained breathing apparatus. Further information: Dispose of fire residues and contaminated extinguishing water in accordance to local regulations.
6.	Measures in case of unintended release	Methods for cleaning up: Sweep/shovel up.
7.	Handling and storage	<b>Handling</b> 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/m <sup>3</sup> . Fire and explosion protection: no specific measures must be taken. <b>Storage</b> In original packing, protected against environmental impacts, keep in a dry place.

# Acrylic Sheet Cast Safety Sheet

Clear



<p>8. Limitation of exposition</p>	<p>The following can be released when the product is processed (traces): Components with workplace control parameters.</p> <table border="1" data-bbox="639 427 1549 658"> <tr> <td data-bbox="639 427 815 524"><b>Traces of Methyl Methacrylate</b></td> <td data-bbox="815 427 967 524">210mg/m<sup>3</sup></td> <td data-bbox="967 427 1114 524">50ppm</td> <td data-bbox="1114 427 1257 524"><b>CAS-No</b> 80-62-6</td> <td data-bbox="1257 427 1401 524"><b>EG-No</b> 201-297-1</td> <td data-bbox="1401 427 1549 524">R36/37/38, R43</td> </tr> <tr> <td data-bbox="639 524 815 658"><b>Traces of Ethyl Acrylate</b></td> <td data-bbox="815 524 967 658">21mg/m<sup>3</sup></td> <td data-bbox="967 524 1114 658">5ppm</td> <td data-bbox="1114 524 1257 658"><b>CAS-No</b> 96-33-3</td> <td data-bbox="1257 524 1401 658"><b>EG-No</b> 205-438-8</td> <td data-bbox="1401 524 1549 658">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>	<b>Traces of Methyl Methacrylate</b>	210mg/m <sup>3</sup>	50ppm	<b>CAS-No</b> 80-62-6	<b>EG-No</b> 201-297-1	R36/37/38, R43	<b>Traces of Ethyl Acrylate</b>	21mg/m <sup>3</sup>	5ppm	<b>CAS-No</b> 96-33-3	<b>EG-No</b> 205-438-8	R11, R36/37/38, R43, S 20/21/22.
<b>Traces of Methyl Methacrylate</b>	210mg/m <sup>3</sup>	50ppm	<b>CAS-No</b> 80-62-6	<b>EG-No</b> 201-297-1	R36/37/38, R43								
<b>Traces of Ethyl Acrylate</b>	21mg/m <sup>3</sup>	5ppm	<b>CAS-No</b> 96-33-3	<b>EG-No</b> 205-438-8	R11, R36/37/38, R43, S 20/21/22.								
<p>9. Physical and chemical characteristics</p>	<p>Colour: clear or coloured Odour: odourless</p> <p><b>Change in physical state</b> Softening point &gt; 110 °C ISO 306 (Method A) Ignition temperature &gt; 425 °C DIN 51794 Fire promoting properties none Density 1.19 g/cm<sup>3</sup> ISO 1183 Bulk density n. a. kg/m<sup>3</sup> Solubility in water insoluble Solubility in other solvents soluble in organic solvents</p>												
<p>10. Stability and reactivity</p>	<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>												
<p>11. Toxic information</p>	<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>												

# Acrylic Sheet Cast Safety Sheet

Clear



12. Ecological information	<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.
13. Waste-disposal information	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)
14. Transport information	Not classified as hazardous under transport regulations.
15. Regulation	<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)
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.