



## CE Safety Data Sheet

### PMMA (Polymethyl Methacrylate)

**1. Identification elements of the substance / product and the production company**

CO-POLYMETHYL-METHACRYLATE

**Intended use(s)**

Structural applications and mechanical processing with machine tools (milling machines, -depends on inlay-other tools)

**2. Composition / Information on the ingredients**

Acrylic polymers, obtained by polymerisation of monomer methacrylate

**3. Notes on hazards**

No special hazards exist.

**4. First-aid measures**

In the case of eye irritations from contact with milling dust of the polymer, wash the eyes thoroughly with sufficient water. If the problem persists, contact a doctor.

**5. Fire-prevention measures**

Suitable fire-fighting materials: spray with water, dry chemical powder, CO2

Unsuitable fire-fighting materials: jets of water

**Special protective equipment for fire-fighting measures**

Use of breathing apparatus with open or closed cycle

No toxic, irritant or hazardous substances are released during combustion.

**6. Measures in the event of leaks**

Cleaning / Acceptance procedure

Pick up with a shovel and broom, remove according to regulations.

**7. Handling and storage**

Handling: due to sharp edges, there is a danger of cuts to the hands

**Information on safe use**

When processing where chips arise, it is necessary to keep a safe distance away from the machines.

**Information on fire and explosion prevention**

No special measures

### **Storage**

Instructions for storage and containers: no special information

## **8. Control of individual exposure / individual protection**

### **Personal protective equipment:**

Hygiene measures: the normal hygiene measures necessary must be applied

Respiratory protection: machining can give rise to chips that make use of a dust mask necessary

Gloves: according to standard EN 388, danger of cuts

Glasses: machining can give rise to chips that make use of safety glasses necessary

## **9. Physical and chemical properties**

Appearance of the product

Form: plate or block

Colour: as ordered

Odour: odourless

Other safety data:

Softening > 100°C

Boiling temperature: not applicable

Flash point > 220°C (ASTM D1929-68)

Ignition temperature > 370°C (ASTM D1929-68)

Auto ignition: not determinable

Relative density 1.19 g/cm<sup>3</sup> at 20°C

Vapour density: not applicable

Water solubility: not soluble

Fat solubility: not determined

pH value: not applicable

Viscosity: not applicable

#### **10. Stability and reactivity**

Thermal degradation (depolymerisation): > 220°C

Hazardous reactions: not known

Hazardous decomposition products: none

#### **11. Toxicological information**

The product was not tested for toxicity. According to the analysis of existing literature on analogue polymers, it may be assumed that the product is not toxic and not harmful to health.

#### **12. Information on disposal**

Product: the wastes and processing residues are not hazardous. They must be disposed of according to legal regulations and with the approval of the local responsible authorities. The wastes may be disposed of with household waste.

CER waste code

07 02 13 Wastes from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibers - waste plastic

#### **13. Information on transport**

According to transport laws, the product is not hazardous.

#### **14. Information on regulations**

Labelling according to EU Directive 199/45/EU: not applicable

Further information on labelling

Based on the toxicological and eco-toxicological information available to us on comparable products, labelling is dispensed with in terms of the European Directive 199/45/EU.

#### *Sources*

*Manuals and publications on the subject*

*Analyses from other research and branches of industry*

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