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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

Polymethylmethacrylate (PMMA)

### Relevant identified use of substance/preparation and use which is advised against

None.

### Relevant identified uses

Vitrification of labware, booth construction, furniture, illuminated advertising.

### Details of the supplier of safety data sheet

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## SECTION 2: Hazards identification

There are no hazards known from this product.

## SECTION 3: Composition/information on ingredients

Acrylic polymer based on methyl methacrylate.

## SECTION 4: First aid measures

### Description of First aid measures

#### Eye contact

Flush eyes thoroughly with water after mechanical irritation (due to machining), seek medical attention if necessary.

## SECTION 5: Fire fighting measures

### Suitable extinguishing media

Water jet, foam, dry powder, carbon dioxide (CO<sub>2</sub>).

### Extinguishing media not suitable for safety reasons

Full water jet

**Advice for fire-fighters**

Use a self-contained breathing apparatus.

**SECTION 6: Accidental release measures****Methods and material for containment and cleaning up**

Remove mechanically. Dispose of according to regulations.

**SECTION 7: Handling and storage****Precautions for safe handling**

Use appropriate ventilation for thermal processing and/or machining of the product.

**Advice on fire and explosion protection**

No special measures necessary.

**Storage****Requirements for storage rooms and vessels**

Storage: dry

Storage category (TRGS 510): 11, combustible solids

**SECTION 8: Exposure controls/personal protection****Personal protective equipment****Hygienic measures**

The general specifications of industrial hygiene have to be followed.

**Respiratory protection**

Not necessary in case of normal handling. A respirator can be necessary for machining.

**Hand protection**

Protective gloves against mechanical risks according to EN 388.

General information: protective gloves should be changed regularly, especially after intense contact with the product. A suitable type of gloves must be chosen for each workplace.

**Eye protection**

Wear protection goggles in case of mechanical processing.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance:**

Physical state / form:

Solid, rods and sheets

Colour:

Colourless

Odour:

odourless

**Security-relevant data / Changes of status**

Softening temperature:	>100°C
Flash point:	>250 °C (ASTM D1929-68)
Ignition temperature:	>400 °C (ASTM-D 1929-68)
Auto-ignition temperature:	Not defined.
Lower explosion limit:	Not applicable.
Upper explosion limit:	Not applicable.
Vapour pressure:	Not applicable.
Density:	1,18 g/cm <sup>3</sup> at 20 °C
Melting point:	220 °C
Solubility in water:	Not soluble.
pH value:	Not applicable.
Viscosity:	Not applicable.

**9.2 Other information**

None.

**SECTION 10: Stability and reactivity****Thermal decomposition**

Above 250 °C.

**Possibility of hazardous reactions**

No hazardous reactions known.

**Hazardous decomposition products**

Thermal decomposition causes combustible vapours irritating eyes and respiratory system. These vapours mainly consist of methylmethacrylate.

**SECTION 11: Toxicological information****General information**

The product was not checked toxicologically. According to our information, there are no hazardous effects on health if it is handled appropriately and used properly.

**SECTION 12: Ecological information****General information**

The product was not checked regarding ecological toxicity. Due to its consistency and its practical insolubility in water, a bioavailability is not probable. This is confirmed by examinations of products with similar constitution.

**SECTION 13: Disposal considerations****Product**

The waste of this product is not dangerous. Correctly sorted and clean product can be recycled or disposed of in accordance with local rules or burned in an appropriate incineration plant.

**Uncleaned packaging**

Not contaminated packaging can be recycled.

**EWC waste code**

07 02 13

Waste of production, preparation, sale and application (HZVA) of plastics, synthetic rubber and fibre – plastic waste. Please check waste code according to source area in your company.

**SECTION 14: Transport information****Additional information**

No dangerous goods as defined by transport regulations.

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****Labelling according to regulation 1999/45/EC**

Not applicant.

**Additional labelling**

Due to toxicological and eco-toxicological information that we have on similar products, a labelling according to regulation 1999/45/EC is not necessary.

**Water hazard class**

nhw not hazardous to water (VwVwS)

**Status of registration**

EINECS/ELINCS : listed

**SECTION 16: Other information**

This information solely describes the safety requirements of the product(s) and is based on our current state of knowledge. It does not give any assurance concerning the product(s) described within the meaning of statutory warranty regulations.

**Change index**

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