

MATERIAL SAFETY DATA SHEET

ACRYCAST

1 Product and Company Identification

- **Trade name:** Acrycast
- **Chemical name:** Polymethyl methacrylate (PMMA)
- **Chemical family:** Methacrylic polymer

2 Hazard(s) Identification

- **Name of classification:** Not applicable.
- **Emergency overview:** Crystal-clear, opaque or colour sheets that present no immediate hazard. Avoid inhaling dust. Avoid direct contact with skin and eyes. Can burn in fire, releasing hazardous gases and fumes.
- **Potential health effects Inhalation:** Unlikely to be hazardous unless heated. Monomer vapors from heated product can cause irritation, nausea, headache and dizziness.
- **Eye contact:** Causes irritation.
- **Skin contact:** Non-irritation. Practically non-toxic. Molten material (hot) can cause severe scalds.
- **Ingestion:** Practically non-toxic.
- **Chronic:** No known effects.

3 Composition/Information on Ingredients

- **Classification as single substance / compound:** Single substance
- **Polymer type:** Methyl methacrylate polymers
- **Components:** Approx. 100%
- **Formula:** (C⁵H⁸O²) ×
- **CAS NO:** 9011 - 14 - 7

4 First-Aid Measures

- **Inhalation:** Remove patient from exposure, keep at rest. Give oxygen or artificial respiration if needed. Call a physician.
- **Skin contact:** Never try to peel molten polymer from the skin.
- **Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
- **Ingestion:** If illness or adverse symptoms develop, call a physician.



5 Fire-Fighting Measures

- **Flash point and method:** Not applicable.
- **Flammable limits-lower:** Not applicable.
- **Auto ignition temperature:** Not applicable.
- **Extinguishing media:** Use carbon dioxide or dry chemical for small fires; alcohol appropriate safety equipments for fire conditions. Including self-contained breathing apparatus and other protective equipment or garments.
- **Hazardous decomposition products:** May generate carbon monoxide, carbon dioxide and monomers.

6 Accidental Release Measures

Offcuts, swarf or dust should be collected and disposed of in a safe way.

7 Handling and Storage

- **Handling:** Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Use with adequate ventilation may from explosive dust-air mixtures.
- **Storage:** Store at ambient temperatures. Keep away from heat. Avoid direct sun light.

8 Exposure Controls/Personal Protection

- **Engineering controls (Ventilation):** Use local ventilation at places where dust can be released into the workplace air.
- **Personal protection Respiratory:** None required for occasional handling if adequate ventilation is available. A dust respirator is recommended for prolonged handling or exposure.
- **Eye protection:** Wear safety goggles or equivalence eye protection devices.
- **Protective gloves other:** When handling hot material. Wear thermal resistance gloves.
- **Work/Hygienic practices:** Wear appropriate protective clothing for prevention skin contact. Always keep protective equipments and workplaces clean.

9 Physical and Chemical Properties

- **Appearance:** Crystal-clear, opaque or colour sheet.
- **Odor:** Odorless
- **Volatility:** None
- **Melting point:** > Approx. 120 0C, varies by grade.
- **Solubility in water:** Insoluble.
- **Specific gravity** 1.1 - 1.2 (H₂O =1), varies by grade.
- **Evaporation property:** Not applicable.

10 Stability and Reactivity

- **Ignition temperature:** > 400 °C
- **Stability:** Stable
- **Hazardous polymerisation:** Will not occur
- **Conditions to avoid:** None
- **Incompatibility:** None
- **Flammability:** Decomposes with heat. Hazardous, flammable gases / vapors produced are carbon monoxide, carbon dioxide and monomers. High concentrations of monomer vapor can cause eyes and respiratory irritation, headache, and nausea.



- **Chronic effects / carcinogenicity:**
- **Mutagenicity:**

11 Toxicological Information

No data available. Not listed by IARC, NTP, or OSHA.
No data available.

- **Decomposition:**

12 Ecological Information

No data available.

13 Disposal Considerations

Please recycle this material for environmental care. May be disposed on an authorized landfill site or be incinerated under government approved controlled condition. Disposal shall be conducted in compliance with local, state and / or national legislation.

14 Transport Information

Not Classified as Dangerous for Transport.

15 Regulatory Information

- **Fire defense law:** Designated combustible material - Synthetic resins.

16 Other Information

The information is believed to be accurate and represents the best information currently available to us. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

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