

# AK Cast Acrylic Material Safety Data Sheet



## SECTION I GENERAL INFORMATION

Trade name	AK Cell Cast Acrylic Sheet
Chemical name	Polymethyl methacrylate ( PMMA )
Chemical family	Methacrylic polymer

## SECTION II IDENTITY INFORMATIONS

Classification as single substance / compound :

Polymer type	Methyl methacrylate polymers
Components	Approx. 100%
Formular	( C <sub>5</sub> H <sub>8</sub> O <sub>2</sub> ) <sub>x</sub>
CAS NO.	9011 - 14 - 7

## SECTION III HAZARDS IDENTIFICATION

Name of classification	Not applicable
Emergency overview	Crystal-clear , opaque or color 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.



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Ingestion	Practically non-toxic.
Chronic	No known effects.
<b>SECTION IV EMERGENCY AND FIRST AID MEASURES</b>	
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.
<b>SECTION V FIRE FIGHTING MEASURES &amp; EXPLOSION HAZARD DATA</b>	
Flash point and method	Not applicable
Flammable limits lower/upper	Not applicable
Autoignition temperature	Not applicable
Extinguishing media	Use carbon dioxide or dry chemical for small fires; alcohol appropriate safety equipments for fire conditions. Use a self-contained breathing apparatus and other protective equipment or garments.
Hazardous decomposition products	May generate carbon monoxide, carbon dioxide and monomers.

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## SECTION VI ACCIDENTAL RELEASE MEASURES

Will not occur.

## SECTION VII PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Handling	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Use with adequate ventilation.
Storage	Store at ambient temperatures.

## SECTION VIII EXPOSURE CONTROLS AND 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 equivalent eye protection devices.
Protective gloves	When handling hot material, wear thermal resistance gloves.
Other	Wear appropriate protective clothing to prevent skin contact.
Work / Hygienic practices	Always keep protective equipments and workplaces clean.

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## SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Crytal-clear, opaque or color sheet.
Odor	Odorless
Volatility	None
Melting point	> Approx. 120 °C , varies by grade.
Solubility in water	Insoluble.
Specific gravity	1.1 - 1.2 ( H <sub>2</sub> O =1 ) , varies by grade.
Evaporation property	Not applicable.

## SECTION X HAZARD DATA (STABILITY AND REACTIVITY)

Ignition temperature	> 400 OC
Stability	Stable
Hazardous polymerization	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.

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## SECTION XI TOXICOLOGICAL INFORMATION

Chronic effects/ carcinogenicity	No data available. Not listed by IARC, NTP, or OSHA.
Mutagenicity	No data available.

## SECTION XII ECOLOGICAL INFORMATION

## SECTION XIII DISPOSAL CONSIDERATIONS

May be buried on an authorized landfill site or be incinerated under approved controlled condition. Disposal should be in accordance with local, state and/or national legislation. The owner of the material is responsible for proper waste disposal.

## SECTION XIV TRANSPORT INFORMATION

Not regulated.

## SECTION XV REGULATORY INFORMATION

Fire defense law	Designated combustible material - Synthetic resins.
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<b>Note</b>	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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