

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE

Product Name : MASAF PLAST PMMA Sheets POLYSHIELD
Product Description : Poly(methyl methacrylate-methyl acrylate) Sheets [CASRN 9011-87-4]
Product type : Commercial Product.
Recommended use : May be used as received, processed or thermoformed to produce other articles, or as a component of other industrial products.
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2. COMPOSITION / INFORMATION ON INGREDIENTS

- This product consists primarily of high molecular weight polymers which are not expected to be hazardous.
- Product does not contain any hazardous ingredients liable to be disclosed.

3. HAZARD IDENTIFICATION

Emergency Overview Color : Colorless or colored
Appearance : Solid in various forms
Odor : Odorless

Under normal conditions of use, this product is not expected to create any unusual industrial hazards.

Primary Routes of Exposure : Eye contact (if exposed to chips)
Potential Health Effects:
Inhalation : No hazard expected in normal use.
Skin Contact : Cuts (when using cut sheets)
Ingestion : No hazard expected in normal use.

4. FIRST AID MEASURES

Inhalation : No specific treatment is necessary since this material is not likely to be hazardous by inhalation.
Ingestion : Ingestion is not considered a potential route of exposure
Skin Contact : No specific treatment is necessary since this material is not likely to be hazardous.
Eye Contact : If mechanical irritation occurs -flush eyes thoroughly with a large amount of water, consult a physician if irritation persists. (possible during machining processes)

5. FIRE FIGHTING MEASURES

Autoignition Temperature : >400°C

Explosive Limits

Upper : Not determined
Lower : Not determined

Suitable Extinguishing Media

Use dry chemical, CO₂, water spray or "alcohol" foam. Water is the best extinguishing medium. Carbon dioxide and dry chemicals are not generally recommended because their lack of cooling capacity may permit re-ignition on

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larger resin fires(blobs, drools etc.).

Unsuitable Extinguishing Media for Safety Reasons:

Do not use a solid water stream as it may scatter and spread fire. Hazards from Combustion Products:
Fire will produce dense black smoke containing hazardous combustion products, carbon oxides, hydrocarbon fragments.

Special Protective Equipment for Firefighters:

In the event of fire, wear self-contained breathing apparatus (EU: NEN-EN137).

Specific Hazards:

Take precautionary measures against static discharges. During processing, dust may form explosive mixture in air. Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	: See section 8.
Environmental Precautions	: Do not flush into surface water or sanitary sewer system. Do not release into the environment.
Clean up	: Gather and store in a closed container pending a recyclability or waste disposal evaluation.

7. HANDLING AND STORAGE

Handling	: Handle in accordance with good industrial hygiene and safety practice. Provide for appropriate exhaust ventilation and dust collection at machinery. Avoid dust formation. Accumulation of waste films, sheets may create a slipping hazard.
Storage	: Keep away from heat sources and sources of ignition. Keep under roof.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Measures to Reduce Exposure	: Handle in accordance with good industrial hygiene and safety practice. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.
Hand Protection	: Protective gloves should be worn, NEN-EN 374
Eye Protection	: Safety glasses with side-shields should be put on. (NEN-EN 165-166).
Respiratory Protection	: In the case of hazardous fumes, wear self contained breathing apparatus. In case of insufficient ventilation wear suitable respiratory equipment. (NEN-EN149).
Body Protection	: Long sleeved clothing (NEN-EN 340-369-465).
Hygiene Measures	: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Solid
Appearance	: Sheet or Film
Color	: Various
Odor	: None or Slight
Melting point/range	: This product does not exhibit a sharp melting point but softens
Auto ignition temperature	: > 400 ^o C
Density	: 1.19 g/cm ³
Explosive Limits	upper: Not applicable lower: Not applicable

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10. STABILITY AND REACTIVITY

Stability	:	Stable under ambient conditions. Hazardous polymerization does not occur
Conditions to Avoid	:	Do not exceed melt temperature recommendations in product literature.
Materials to Avoid	:	May react with strong oxidizing agents, strong acids or other highly reactive chemicals.
Hazardous Decomposition Products:		Processing fumes evolved at recommended processing conditions may include trace levels of hydrocarbons, carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

LD50/oral/rat	:	>5000 mg/kg, estimated
LD50/dermal/rabbit	:	>2000 mg/kg, estimated
Inhalation	:	Inhalation unlikely due to physical form.
Eye Contact	:	Resin particles, like other inert materials, are mechanically irritating to eyes.
Skin contact	:	Not likely to cause irritation.
Ingestion	:	Ingestion not likely due to physical form.
Chronic Toxicity	:	No information available
Special Studies	:	No information.

12. ECOLOGICAL INFORMATION

Ecological damages are not known or expected under normal use.

13. TRANSPORT INFORMATION

Transport Classification: Not regulated as hazardous for shipment, unless noted below, under current transportation guidelines.

- DOT
- ADR/RID/ADNR
- IMDG
- ICAO
- IATA-DGR
- MEXICO

14. DISPOSAL CONSIDERATIONS

Waste Disposal: Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.

US EPA Waste number: None

Other Information: Accordingly, SABIC recommends implementation of systems and practices by downstream users to prevent and address incidental releases in order to protect the aquatic environment from potential (long term) negative effects of plastic materials.

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15. REGULATORY INFORMATION

HMIS Rating Health: 0 Flammability: 1 Reactivity: 0

Statutory Instruments: Unknown.

Further regulatory information can be requested via writing.

16. SUPPLEMENTARY INFORMATION

This safety data sheet has been shared for the purpose of protecting health and safety of industrial and commercial users who are deemed capable of understanding and acting on the information. Please ensure that is passed to the appropriate persons, who can act on the information

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