

SDS - G-Cast Acrylic



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade Name: G-Cast Acrylic

Usage: Various fabrication applications

Supplier: A&C Plastics, Inc.
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Houston, TX 77087
www.acplastics.com

2. HAZARDS IDENTIFICATION

This material is classified as not hazardous under OSHA regulations. Low toxicity under normal conditions of handling and use. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors. Care should be taken during thermoforming to ensure that the product is not exposed to temperatures exceeding 392°F (200°C). Certain machining operations (e.g. laser cutting) can give rise to toxic and corrosive fumes. Adequate ventilation MUST be used.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization: >90% Poly(methyl methacrylate) [CAS# 9011-14-7]

4. FIRST AID MEASURES

Inhalation: Dust or fumes from fabrication operations may cause irritation. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact: Unlikely to cause skin irritation. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention.

Eye Contact: Dust or fumes from fabrication operations may cause irritation. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Low oral toxicity. Do not induce vomiting. Rinse mouth.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, foam, dry powder or CO2.

Specific Fire Hazards: Combustion will evolve toxic, irritant and flammable vapors.

Special Protective Equipment & Precaution for Fire Fighters: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

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6. ACCIDENTAL RELEASE MEASURES

- Personal Precaution: Provide adequate ventilation. Wear personal protection equipment. Do not breathe dust.
- Environmental Precaution: Do not allow to enter into soil, waterbodies or drains.
- Methods for Cleaning Up: Offcuts, swarf or dust should be collected and disposed of in a safe way.

7. HANDLING AND STORAGE

Max. Storage Temperature: < 104°F (< 40°C)

Handling: These sheets are heavy and unwieldy. They should be handled with care, particularly in windy locations or outdoors. If broken or chipped the resultant edges can be sharp and cause cuts to skin and eyes. Take precautionary measures against static discharges. All polymers degrade to some extent at their processing temperature, an effect which increases with increasing temperature. Under normal conditions where thermoforming temperatures will not exceed 392°F (200°C) thermal decomposition products will include methyl methacrylate. Local exhaust ventilation and/or respiratory protective equipment should be used. Certain machining operations (e.g. laser cutting) can give rise to toxic and corrosive fumes. Adequate ventilation MUST be used.

Storage: Keep away from heat. Store vertically on A-frames.

Incompatible materials: Most organic solvents, acetone, chlorinated hydrocarbons.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits :

	OSHA		ACGIH	
	PEL	STEL	TLV	STEL
1. Methyl methacrylate	100 ppm	None	50 ppm	100 ppm

Ventilation Measures: Provide good ventilation and/or an exhaust system in the work area.

Respiratory Protection: None required under normal conditions.

Hand Protection: Wear suitable gloves. Sharp edges may cause cuts.

Eye Protection: Safety glasses with side shields (ANSI Z87.1 equivalent).

Skin & Body Protection: Wear suitable protective clothing and boots. Sharp edges may cause cuts.

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Other Protective Measures: Do not eat, drink or smoke at the work place. Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapors are likely to be evolved. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. Local extraction close to the cutting head must be used when laser cutting. Where suitable engineering controls are not fitted or are inadequate, wear suitable protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid sheets
Color:	Clear or colored
Odor:	Not applicable
pH:	Not applicable
Melting Point:	Not available
Boiling Point:	Not available
Decomposition Temperature:	Not available
Flash Point:	Not available
Auto-ignition Temperature:	Not available
Explosion Limits:	Not applicable
Evaporation Rate:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density:	1.19
Solubility (Water):	Insoluble

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. Hazardous polymerization does not occur.
Conditions to Avoid:	Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation.
Materials to Avoid:	Most organic solvents, acetone, chlorinated hydrocarbons
Hazardous Decomposition Products:	Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

This product should not be harmful under normal conditions of use.

Inhalation:	Unlikely to be harmful by inhalation under ambient temperature. Inhalation of vapors from heated product can cause nausea, headache, dizziness as well as irritation of lungs, nose, and throat.
Skin Contact:	No evidence of irritant effects from normal handling and use. Sharp edges may cause cuts.
Ingestion:	Unlikely to be harmful by ingestion under ambient temperature.

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Eye Contact: Vapors from heated product can irritate the eyes. Sharp off-cuts may cause eye damage.

Carcinogenicity: Non-carcinogenic

12. ECOLOGICAL INFORMATION

Ecotoxicity: This product should have low toxicity to aquatic and terrestrial organisms.

Mobility: Due to the solid nature of this product, it should have low mobility in soil.

Persistence & Degradability: This product is non-biodegradable.

Bioaccumulation: This solid product has a low potential for bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Waste disposal should be in accordance with all federal, state and local environmental laws and regulations.

14. TRANSPORT INFORMATION

Not subject to national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION

Toxic Substances Control Act: Listed

CERCLA Hazardous
Substances (40 CFR 302): None

SARA Section 313 Toxic
Chemicals (40 CFR 372.65): None

EU Regulations: This product is an Article and as such Article 31 (Requirements for Safety Data Sheets) of Regulation (EC) #1907/2006 does not apply.

California Proposition 65: There is no substance in this product known to the state of California to cause cancer, birth defects, or other reproductive harm.

16. OTHER INFORMATION

SDS Original Date of Preparation: May 3, 2018

SDS Revision Date: August 4, 2023

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