

# Safety Data Sheet



## TruCast Acrylic Sheet

### 1. Product details

Usage:	Plastic sheet products
Chemical characterization:	Polymethyl methacrylate (PMMA) 9010-88-2 99.5 (MIN) Methyl methacrylate (MMA) 80-62-6 0.5 (MAX)

### 2. Hazards identification

Hazard scale:	0=Insignificant, 1=Slight, 2=Moderate, 3=High, 4=Extreme
Health designation:	1
Fire designation:	1
Reactivity designation:	1
Inhalation:	Inhalation of vapors from heated product can cause nausea, headache, dizziness as well as irritation of lungs, nose, and throat
Eye contact:	Vapors from heated product can irritate the eye
Ingestion:	Low hazard associated with normal conditions
Skin contact:	Possible skin irritation. Contact with molten material can result in burns.
Carcinogenicity:	N/A

### 3. First aid measures

Inhalation:	Move subject to fresh air.
Skin contact:	If molten material contacts skin, cool rapidly with cold water and obtain medical attention for thermal burn.
Eye contact:	Flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion:	This material is not expected to be absorbed within the gastrointestinal tract, so induction of vomiting should not be necessary.

### 4. Workplace exposure limits

COMPONENTS	OSHA		ACGIH	
	PEL	STEL	TLV	STEL
1. PMMA	None	None	None	None
2. MMA	100 ppm	None	100 ppm	None
3. Nuisance dusts	5 mg/m <sup>3</sup>	None	10 mg/m <sup>3</sup>	None
MMA: 100 ppm = 410 mg/m <sup>3</sup>				

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## 5. Fire – fighting measures

Flash point:	N/A
Auto ignition temperature	445° C/833° F
Upper explosion limit:	N/A
Lower explosion limit:	N/A
Extinguishing media:	Carbon dioxide, dry chemical, or water.
Fire protection equipment:	Wear self-contained, positive pressure breathing apparatus (MSHA/NIOSH approved, or equivalent) and full protective gear.
Unusual fire and explosion hazard:	Product is combustible thermoplastic material that burns vigorously with intense heat.

## 6. Accidental release measures

Personal precaution:	Provide adequate ventilation. Wear personal protective equipment. Do not breathe dust.
Environmental precaution:	Do not allow to enter into soil, waterbodies, or drains.
Methods for cleaning up:	Avoid generation of dust. Remove all sources of ignition. Sweep or scoop up into closed containers for disposal.

## 7. Handling and storage

Max. storage temperature:	99° C/210° F (softening temperature).
Handling:	If material is stored under ambient temperature conditions, it is not hazardous. However, extensive storing at higher than the maximum temperature will emit vapors, carbon monoxide or carbon dioxide.
Storage:	Processing of the material under high temperatures will cause hazardous emissions of vapors, carbon monoxide or carbon dioxide. Blower collecting and local exhaust ventilation systems should be installed to prevent contaminant dispersion into the air. Sawing of this product generates particulates regulated as "inert" or "nuisance" dusts. To minimize dust emissions, engineering controls should be employed, such as baghouse filters and cyclone separators.

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## 8. Exposure control

Ventilation measures:	Local exhaust ventilation systems should be constructed and installed in accordance with ANSI Z9.2 or ACGIH guidelines to control potential emissions near the source. None required under normal conditions.
Respiratory protection:	None required under normal conditions.
Hand protection:	Canvas or cotton gloves/
Eye protection:	Safety glasses with side shields (ANSI Z87.1 equivalent)

## 9. Physical and chemical properties

Physical state:	Solid sheets
Color:	Clear to opaque
Odor:	Not applicable
Melting point:	300°F (150°C)
Boiling point:	Not applicable
Evaporation rate:	Negligible (Butyl Acetate = 1)
Vapor pressure:	Not applicable
Vapor density:	Not applicable (Air = 1)
Specific gravity:	1.19 (Water = 1)
Solubility:	Negligible

## 10. Stability and reactivity

Stability:	Stable.
Conditions to avoid:	Temperatures over 300° C/570° F
Hazardous decomposition products:	Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide.
Incompatible compounds:	Acids, bases, and strong oxidizing agents.

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## 11. Ecological information

### Environment

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Under section 102(a) of the Act, this product is NOT designated as hazardous. In addition, no reportable quantities and no notification requirements to the National Response Center in Washington, DC are set forth for its release from a vessel, an offshore or an onshore facility (40 CFR Part 302).

Resource Conservation and Recovery Act (RCRA):

When this product becomes a waste, it is identified as solid but NOT hazardous waste under RCRA criteria (40 CFR Part 261)

Toxic Substances Control Act (TSCA):

The components of this product are on the TSCA inventory list. Any impurities present in this product are exempt from listing.

Superfund Amendment and Reauthorization Act of 1986 (SARA) Title III:

This product may be considered an immediate (acute) health hazard due to potential MMA emissions. However, reporting of thresholds for the material is not required because the concentration of its MMA component is below the de minimis concentration (40 CFR Part 370).

### Transportation

DOT Hazard Class:

Not regulated.

DOT Shipping Name:

N/A.

Labor Awareness

This product as supplied is non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). However, under processing conditions it may become a health hazard to employees because vapors and/or particulates could be released. See Section 12 for Storage and Handling Information.

## 12. Disposal considerations

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

## 13. Transport information

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

## 14. Regulatory information

OSHA Hazard Communication: Non-hazardous

Toxic Substances Control Act: Listed

CERCLA Hazardous Substances (40 CFR 302): None

SARA Section 311/312: Non-hazardous

SARA Section 313 Toxic Chemicals (40 CFR 372.65) None

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RCRA Hazardous Wastes (40 CFR 261): When this product becomes a waste, it is identified as a solid but NOT hazardous waste under RCRA criteria (40 CFR Part 261).

California Proposition 65: WARNING: This product can expose you to chemicals including Bisphenol A, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

California Proposition 65 Safe Harbor Level(s):  
Maximum Allowable Dose Level (MADL) for Bisphenol A = 3 ug/day (dermal exposure from solid material)

## 15. Other information

SDS Prepared by: A&C Plastics

The information presented herein is believed to be factual and reliable. It is offered in good faith, but without guarantee, since conditions and methods for the use of our products are beyond our control. We recommend that the prospective user determine the suitability of our products and these suggestions before adopting them on a commercial scale.

