Safety Data Sheet

A-Cast EG Acrylic Sheet

1. Product details

Usage:	High molecular weight acrylic sheet used in a wide range of applications
Chemical characterization:	> 90% Methyl methacrylate

2. Hazards identification

Low toxicity under normal conditions of handling and use. 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 200°C. Certain machining operations eg. Laser cutting, can give rise to toxic and corrosive fumes. Adequate ventilation MUST be used.

3. First aid measures

Inhalation:	Material is not expected to be harmful by ingestion. No special first aid measures are required.
Skin contact:	Wash immediately with plenty of water and soap.
Eye contact:	Rinse immediately with plenty of water for at least 15 minutes.
Ingestion:	This material is not expected to be harmful if inhaled. Remove to fresh air.

4. Fire – fighting measures

Extinguishing media:	Use water spray or fog, carbon dioxide or dry chemical.
Protective equipment:	Firefighters, and other exposed, wear self-contained breathing apparatus.
Fire rating: Classed as	DIN4102 : B2, with no burning droplets NF92500+ : M4 (no droplets) BS476 Part 7: Class 3 BS2782 method 508A: TP(b)
UL Flammability:	UL94 HB

5. Accidental release measures

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

6. Handling and storage

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 charges.

Process hazards:	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 200°C, thermal decomposition product with include methyl methacrylate. Certain machining operation eg. 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. Storage temperature: below 40°C

7. Exposure control

Exposure limits:	Not applicable.
Ventilation measures:	Provide good ventilation and/or an exhaust system in the work area.
Respiratory protection:	Not normally required. During processing, a suitable dust mask or dust respirator with filter type P may be appropriate (EN141/EN143).
Hand protection:	Sharp edges may cause cuts. Wear suitable gloves.
Eye protection:	Wear eye/face protection. Safety spectacles/goggles/full face shield.

8. Physical and chemical properties

Physical state:	Solid sheets
Color:	Clear or colored
Odor:	Not applicable
pH:	Not applicable
Melting point:	Not applicable
Boiling point:	Not applicable
Decomposition temperature:	Will not decompose below 200°C
Flash point:	11.5 (MMA). Sheet has no flash point.
Auto-ignition temperature:	421 (MMA)
Explosion limits:	Not applicable
Evaporation rate:	Not applicable
Vapor pressure:	Not applicable

Vapor density:	Not applicable
Relative density:	1.19
Solubility:	Insoluble
Softening point:	>100°C

9. Stability and reactivity

Stability:	Stable
Hazardous decomposition products:	Methyl methacrylate, traces of Acrolein

10. Toxicological information

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

Inhalation:	Unlikely route of exposure.
Skin contact:	No evidence of irritant effects from normal handling and use. Sharp edges may cause cuts.
Ingestion:	Unlikely to be hazardous if swallowed.
Eye contact:	Swarf or dust may cause irritation. Sharp off-cuts may cause eye damage.
Long term exposure:	No known hazards are associated with the use of this material.

11. Ecological information

Environmental exposure from substances of this preparation is limited due to the physical form of the product. This material is not classified as dangerous for the environment.

12. Disposal considerations

Disposal should be in accordance with local, state, or national legislation. Incineration may be used to recover energy value. Bury on an authorized landfill site or incinerate under approved controlled conditions, using incinerators suitable for the disposal fo noxious chemical waste. Large quantities of waste may be recoverable.

13. Transport information

Not classified as dangerous for transport.

14. Regulatory information

Not classified as dangerous for supply/use. Under the Classification, Packaging, and Labelling of Dangerous Substances Regulations, 1984, this material is not dangerous for supply or conveyance.

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.