Safety Data Sheet

Optix L Museum Acrylic Sheet

1. Product details

Usage:	Plastic sheet products
Chemical characterization:	~97% Poly(methyl methacrylate/butyl acrylate) [CAS# 25852-37-3] <2% Methyl methacrylate [CAS# 80-62-6] <1% n-Butyl acrylate [CAS# 141-32-2]
Other names:	Formerly known as LuciteLux Continuous Cast Acrylic Sheet

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. First aid measures

Inhalation:	Move subject to fresh air.
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 may cause irritation. Flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion:	Low oral toxicity. Do not induce vomiting. Rinse mouth.

4. Fire – fighting measures

Suitable extinguishing measures:	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:	Wear a self-contained breathing apparatus and full protective gear.

5. 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.

6. 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 392F (200C) 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. Indefinite storage life under specified storage conditions.
Incompatible materials:	Most organic solvents, acetone, chlorinated hydrocarbons.

7. Exposure control

Exposure limits:	OSHA		ACGIH	
	PEL	STEL	TLV	STEL
1. Methyl methacrylate	100 ppm	None	50 ppm	100 ppm
2. n-Butyl acrylate	None	None	2 ppm	None

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.
Other protective measures:	Wear suitable protective clothing and boots. Sharp edges may cause cuts.

8. Physical and chemical properties

Physical state:	Solid sheets
Color:	Clear or colored
Odor:	Odorless
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:	Insoluble

9. Stability and reactivity

Stability:	Stable under normal conditions.
Conditions to avoid:	Protect from excessive heat. Keep away from sources of ignition and heat.
Materials to avoid:	Most organic solvents, acetone, chlorinated hydrocarbons.
Hazardous decomposition products:	Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide.

10. 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.
Eye contact:	Vapors from heated product can irritate the eyes. Sharp off-cuts may cause eye damage.
Carcinogenicity:	Non-carcinogenic

11. 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.

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
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.

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.