Safety Data Sheet

Polycarbonate Mirror Sheet

1. Product details

Usage:	Plastic mirror sheet products
Chemical characterization:	> 97.5% Polycarbonate (PC) [Proprietary] < 0.1% Aluminum [CAS# 7429-90-5] < 1.0% Coating [Proprietary] 1.5% Paint

2. Hazards identification

This material is classified as not hazardous under OSHA regulations. Under normal conditions of use, this product is not expected to create any unusual industrial hazards. Irritating gases/fumes may be given off during burning or thermal decomposition. Contact with hot material will cause thermal burns.

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 leas 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. Fire – fighting measures

Suitable extinguishing measures:	Carbon dioxide, dry chemical, or water.
Specific fire hazards:	This product is a combustible thermoplastic material that burns vigorously with intense heat.
Special protective equipment & precaution for fire fighters:	A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

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

6. Handling and storage

Max. storage temperature: 266°F (130°C)

Handling: Ensure appropriate exhaust and ventilation at machinery and at places where dust can be generated. Avoid dust formation, and accumulation of static charges. Prohibit sources of spark and ignition, such as smoking. Processing of this product under high temperatures will cause hazardous emissions of vapors, carbon monoxide or carbon dioxide. Keep away from heat. Store vertically on A-frames. Indefinite storage life under specified storage conditions.

Storage: If this 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.

7. Exposure control

Exposure limits:

	OSHA		ACGIH	
	PEL	STEL	TLV	STEL
1. Aluminum, total	15 mg/m3	None	10 mg/m3	None
2. Aluminum, respirable	5 mg/m3	None	5 mg/m3	None

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

Respiratory protection: None required under normal conditions.

Hand protection: Canvas or cotton gloves.

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

Skin & body protection: Wear suitable protective clothing and boots.

Other protective measures: Avoid contact of molten material with skin. Do not inhale dust particles or vapors. Keep away from sources of ignition. Wash hands before breaks and after work.

8. Physical and chemical properties

Physical state: Solid mirror sheets

Color: Clear to opaque

Odor: Not applicable

pH: Not applicable

Melting point: 311°F (155°C)

Boiling point:	Not available
Decomposition temperature:	Not available
Flash point:	872°F (467°C) approx
Auto-ignition temperature:	1077°F (581°C) approx
Explosion limits:	Not applicable
Evaporation rate:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Relative density:	1.2 – 1.3
Solubility:	Insoluble

9. Stability and Reactivity

Stability:	Stable. 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:	Acids, bases, and strong oxidizing agents.
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. At high temperature, products of thermal decomposition can be irritating to the respiratory system.
Skin contact:	Not a skin sensitizer, and is non-irritating to skin under ambient temperature. At high temperature, contact with the product can cause serious burns.
Ingestion:	Unlikely to be harmful by ingestion under ambient temperature.
Eye contact:	This product in the form of dust can be irritating to the eyes. At high temperature, products of thermal decomposition can be irritating to the eyes.
Carcinogenicity:	Non-carcinogenic

11. Ecological Information

This product is a solid, inert product with low volatility, and is essentially insoluble in water.

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.
Effect in sewage plants:	May be separated mechanically.

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 313 Toxic Chemicals (40 CFR 372.65)	None
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).
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.

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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.