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**MATERIAL SAFETY DATA SHEET**

**1. PRODUCT IDENTIFICATION**

Material: Bunker Plastics Mirrorplast™ Polycarbonate Mirror Sheet  
(includes Mirrorplast™ Extruded Polycarbonate Mirror Sheet, See-Thru Polycarbonate Mirror Sheet, First Surface Polycarbonate Mirror Sheet)

Chemical Name or Synonyms: Poly (bisphenol-A carbonate) mirror sheet

**2. HAZARD INGREDIENTS / IDENTITY INFORMATION**

<u>COMPONENTS</u>	<u>CAS REG. NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>WEIGHT (%)</u>
1. Bisphenol-A polycarbonate polymer	25971-63-5	None	None	99.9
2. High Purity Aluminum	7429-90-5	15mg/m <sup>3</sup> (Total) 5mg/m <sup>3</sup> (Respirable)	10mg/m <sup>3</sup> (Total) None	< 0.01
3. Acrylic Resin		None	None	< 0.1

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.

**3. PHYSICAL / CHEMICAL CHARACTERISTICS**

Appearance:	Solid mirrored sheet
Odor:	N/A
Viscosity:	N/A
Melting Point:	218° C / 424° F
Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A (Air =1)
Specific Gravity:	1.2 (Water =1)
pH:	N/A
Solubility in Water:	Insoluble
Volatility:	Negligible (Weight %)
Evaporation Rate:	N/A



#### 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point:	N/A
Auto Ignition Temperature:	632° C / 1070° F
Upper Explosion Limit (%):	N/A
Lower Explosion Limit (%):	N/A
Extinguishing Media:	Water spray and foam. Carbon dioxide and dry chemical are not recommended because their lack of cooling capacity may permit re-ignition.
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.

#### 5. REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	Temperatures over 420° C / 788° F.
Hazardous Decomposition Products:	Thermal decomposition or combustion may emit vapors, carbon monoxide, carbon dioxide, methane, phenolics, bisphenol A, diphenyl carbonate.
Incompatible Compounds:	Acids, bases, and strong oxidizing agents.
Hazardous Polymerization:	Will not occur.

#### 6. HEALTH HAZARD DATA

Hazard Scale: 0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme

**NFPA**

**Health: 0**

**Fire: 1**

**Reactivity: 0**

Additional Hazards: There are no known acute or chronic health hazards associated with the normal use of Polycarbonate mirrored sheets.

Carcinogenicity: N/A

#### *SIGNS AND SYMPTOMS OF EXPOSURE*

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 eyes.
Ingestion:	Low hazard associated with normal conditions.
Skin Contact:	Possible skin irritation. Contact with molten material can result in burns.

#### *MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE*

N/A



## EMERGENCY AND FIRST AID PROCEDURES

Inhalation:	Move subject to fresh air.
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.
Skin Contact:	If molten material contacts skin, cool rapidly with cold water and obtain medical attention for thermal burn.

## 7. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:	Sweep or scoop up and remove.
Waste Disposal Method:	Landfill or incinerate at a facility that complies with local, state and federal regulations.
Precautions to Be Taken in Handling and Storing:	While material is stored under normal room temperature conditions, it is not hazardous. However, storing at higher than the maximum temperature (82° C / 180° F) can cause it to emit vapors, carbon monoxide or carbon dioxide. Processing of the material under high temperatures will cause hazardous emissions of vapors, carbon monoxide or carbon dioxide. Sawing of this product generates particulates regulated as "inert" or "nuisance" dusts. To minimize dust emissions, engineering controls should be employed.

## 8. CONTROL MEASURES

Respiratory Protection:	None required under normal conditions. See Section 6 &.
Hand Protection:	Leather or cotton gloves.
Eye Protection:	Safety glasses with side shield (ANSI Z87.1 equivalent).
Other Protection:	N/A
Ventilation:	Exhaust ventilation systems should be constructed and installed in accordance with ANSI Z9.2 or ACGIH guidelines to control potential emissions near the source.
Work / Hygienic Practices:	Wash hands and contaminated skin thoroughly after handling.



## 9. REGULATORY INFORMATION

### ENVIRONMENT

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

The listed hazardous components of this product may be subject to reporting requirements pursuant to section 313 of CERCLA (40 CFR 372), Section 12(b) of TSCA, or may be subject to release reporting requirements (40 CFR 307, 40 CFR 311, etc.) See Section 7 for information on waste classification and waste disposal of this product.

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 does not contain reportable quantities of substances subject to supplier notification.

### TRANSPORTATION

DOT Hazard Class:

Not regulated.

DOT Shipping Name:

N/A

## 10. GLOSSARY

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CFR</b>	Code of Federal Regulations
<b>DOT</b>	United States Department of Transportation
<b>mg/m<sup>3</sup></b>	milligrams per cubic meter (concentration)
<b>MMA</b>	Methyl methacrylate
<b>MSHA</b>	Mine Safety and Health Administration
<b>N/A</b>	Not Applicable or Not Available
<b>NIOSH</b>	National Institute for Occupational Safety and Health
<b>OSHA</b>	Occupational Safety and Health Administration (Department of Labor)
<b>PEL</b>	Permissible Exposure Limit (time-weighted average)
<b>PMMA</b>	Polymethyl methacrylate
<b>ppm</b>	parts per million (concentration)
<b>STEL</b>	Short-Term Exposure Limit (15-minute)
<b>TLV</b>	Threshold Limit Value (time-weighted average)