

Polycarbonate Mirror Material Safety Data Sheet

EMERGENCY HOTLINE:
(614) 294-3281

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Material: Polycarbonate Mirror Sheet
(includes See-Thru Polycarbonate Mirror Sheet, First Surface Polycarbonate Mirror Sheet, ARmadillo AR Scratch-Resistant Polycarbonate Mirror Sheet, Polycarbonate Mirror Sheet)

Chemical Name
or Synonyms: Polycarbonate mirror sheet

2. PRODUCT COMPONENTS

| <u>COMPONENTS</u> | <u>CAS REG. NO.</u> | <u>WEIGHT (%)</u> |
|-----------------------------------|---------------------|-------------------|
| 1. Polycarbonate resin (PC) | 24936-68-3 | 98.0 (MIN) |
| 2. Polymethyl methacrylate (PMMA) | 9010-88-2 | 0.5 (MAX) |
| 3. Aluminum | 7429-90-5 | 0.1 (MAX) |
| 4. Paint | | 1.5 |

3. PHYSICAL PROPERTIES

Appearance: Solid mirrored sheet

Odor: N/A

Viscosity: N/A

Melting Point: N/A

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A (Air =1)

Specific Gravity: 1.2 - 1.3 (Water =1)

pH: N/A

Solubility in Water: Negligible

Volatility: Negligible (Weight %)

Evaporation Rate: Negligible (Butyl Acetate = 1)

4. FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point: N/A

Auto Ignition Temperature: 630°C/1166°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.

Polycarbonate Mirror Material Safety Data Sheet

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Unusual Fire and
Explosion Hazard:

Product is combustible thermoplastic material that burns vigorously with intense heat.

5. WORKPLACE EXPOSURE LIMITS

| <u>COMPONENTS</u> | <u>OSHA</u> | | <u>ACGIH</u> | |
|--|----------------------|-------------|----------------------|-------------|
| | <u>PEL</u> | <u>STEL</u> | <u>TLV</u> | <u>STEL</u> |
| 1. PC | None | None | None | None |
| 2. PMMA | None | None | None | None |
| 3. Aluminum | | | | |
| - Total | 15 mg/m ³ | None | 10 mg/m ³ | None |
| - Respirable | 5 mg/m ³ | None | 5 mg/m ³ | None |
| 4. Paint | None | None | None | None |
| 5. Nuisance dusts (as inhalable particles not otherwise specified) | 5 mg/m ³ | None | 10 mg/m ³ | None |

6. HAZARD INFORMATION

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

Health Designation: 0
Fire Designation: 1
Reactivity Designation: 0

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.
Carcinogenicity: N/A

7. 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.

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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.

8. REACTIVITY INFORMATION

Stability: Stable

Conditions to avoid: None

Hazardous Decomposition Products: Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide.

Incompatible Compounds: Acids, bases, and strong oxidizing agents.

9. SPILL OR LEAK INFORMATION

Sweep or scoop up and remove.

10. WASTE DISPOSAL

Landfill or incinerate at a facility that complies with local, state and federal regulations.

11. EXPOSURE CONTROLS/PERSONAL PROTECTION MEASURES

Respiratory Protection: None required under normal conditions. See Section 12.

Hand Protection: Canvas or cotton gloves.

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

Other Protection: N/A

Ventilation: 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.

12. STORAGE AND HANDLING INFORMATION

Maximum Storage Temperature: N/A

Storage Measures: If material is stored under ambient temperature conditions, it is not hazardous. However, extensive storing at higher temperatures may emit vapors, carbon monoxide or carbon dioxide.

Handling Measures: 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

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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.

13. REGULATORY 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:

N/A

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.

14. GLOSSARY

ACGIH American Conference of Governmental Industrial Hygienists

CFR Code of Federal Regulations

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| | |
|-------------------|---|
| DOT | United States Department of Transportation |
| mg/m ³ | milligrams per cubic meter(concentration) |
| MSHA | Mine Safety and Health Administration |
| N/A | Not Applicable or Not Available |
| NIOSH | National Institute for Occupational Safety and Health |
| OSHA | Occupational Safety and Health Administration (Department of Labor) |
| PC | Polycarbonate resin |
| PEL | Permissible Exposure Limit (time-weighted average) |
| PMMA | Polymethyl methacrylate |
| ppm | parts per million (concentration) |
| STEL | Short-Term Exposure Limit (15-minute) |
| TLV | Threshold Limit Value (time-weighted average) |

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.