I. PRODUCT IDENTIFICATION

| Material | OPTIX® Acrylic Plastic (includes OPTIX® Acrylic Sheet, Run-to-Size OPTIX® Acrylic Sheet, OPTIX® Acrylic (PMMA) Resin, Roll Stock OPTIX® Acrylic Sheet, OPTIX® TemperElite Green Edged Acrylic Sheet, OPTIX® Colored Acrylic Sheet, OPTIX® Non-Glare Acrylic Sheet, OPTIX® Patterned Acrylic Sheet, Acrylic Lighting Sheet, ARmadillo AR Scratch-Resistant Acrylic Sheet, OPTIX® Frost Acrylic Sheet) | | | |
|------------------------------|---|-------------------------|------------|--|
| Chemical Name or Synonyms | Polymethyl metha | Polymethyl methacrylate | | |
| 2. PRODUCT INGREDIENT | S | | | |
| No. | Components | CAS No. | Weight (%) | |
| Ι | Polymethyl methacrylate (PMMA) | 9010-88-2 | 99.5 (MIN) | |
| 2 | Methyl methacrylate (MMA) | 80-62-6 | 0.5 (MAX) | |
| 3. PHYSICAL PROPERTIES | | | | |
| Appearance | Clear to opaque solid | | | |
| Odor | Not applicable | | | |
| Viscosity | Not applicable | | | |
| Melting Point | 150oC – 300oF | | | |
| Boiling Point | Not applicable | | | |
| Vapor Pressure | Not applicable | | | |
| Vapor Density | Not applicable (Air = I) | | | |
| Specific Gravity | 1.19 (Water = 1) | | | |
| рН | Not applicable | | | |
| Solubility in Water | Negligible | | | |
| Volatility | Negligible (Weigh | t %) | | |
| Evaporation Rate | Negligible (Butyl Acetate = 1) | | | |



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| | | | | 1 | |
|----------------------------------|--|---------------------|-----------|----------------------|---------|
| 4. FIRE AND EXPLOSION I | AZARD INFOR | RMATIC | N | | |
| Flash Point | Not applicable | | | | |
| Auto Ignition | 445oC – 833oF | | | | |
| Temperature | | | | | |
| Upper Explosion Limit (%) | Not applicable | | | | |
| Lower Explosion Limit (%) | Not applicable | | | | |
| Extinguishing Media | Carbon dioxide, dr | y chemic | al, or wa | iter. | |
| Fire Protection Equipment | t Wear self-containe (MSHA/NIOSH ap) | • | • | - | •• |
| Unusual Fire and Explosio | | | • | , | |
| Hazard | vigorously with intense heat. | | | | |
| 5. WORKPLACE EXPOSUR | / | | | 1 | |
| No. | Components | OSHA | | ACGIH | |
| | • | PEL | STEL | TLV | STEL |
| I | PMMA | None | None | None | None |
| 2 | MMA | 100 ppm | None | 50 ppm | 100 ppm |
| 3 | Nuisance dusts (as inhabable particles not otherwise specified) | 5 mg/m ³ | | 10 mg/m ³ | None |
| | . , | | | | |

6. HAZARD INFORMATION

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

| Health Designation | I | |
|------------------------|---|--|
| Fire Designation | I | |
| 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. | |
| Indigestion | Low hazard associated with normal conditions. | |
| Skin Contact | Possible skin irritation. Contact with molten material can result | |
| | in burns. | |
| Carcinogenicity | Not applicable | |



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. | |
| Indigestion | 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 | Temperatures over 300oC – 570oF |
| 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.

IO. WASTE DISPOSAL

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

| II. EXPOSURE CONTROLS/PERSONAL PROTECTION | | |
|---|--|--|
| 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 | Not applicable | |
| 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 HA | | |

| Maximum Storage Temperature | 99oC – 210oF (softening temperature). |
|-----------------------------|--|
| Storage Measures | If 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. |
| 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 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 designat- ed 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 | When this product becomes a waste, it is identified as solid but |
| Recovery Ace (RCRA) | NOT hazardous waste under RCRA criteria (40 CFR Part 261). |
| Toxic Substances Control | The components of this product are on the TSCA inventory list. |
| Act (TSCA) | Any impurities present in this product are exempt from listing. |
| Superfund Amendment and Reauthorization Act of 1986 (SARA) Title III | This product may be considered an immediate (acute) health hazard due to potential MMA emissions. However, reporting of thresholds for the material is not required because the concentration of its MMA component is below the de minimis concentration (40 CFR Part 370). |

Transportation

| DOT Hazard Class | Not regulated |
|-------------------|----------------|
| DOT Shipping Name | Not applicable |

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.



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| I4. GLOSSARY | |
|-------------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| CFR | Code of Federal Regulations |
| DOT | United States Department of Transportation |
| mg/m ³ | milligrams per cubic meter(concentration) |
| MMA | Methyl methacrylate |
| 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) |
| PEL | Permissible Exposure Limit (time-weighted average) |
| PMMA | Polymethyl methacrylate |
| ppm | parts per million (concentration) |
| STEL | Short-Term Exposure Limit (I5-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.



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