

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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| Product Name | Lumiform™ (resin) |
| Manufacturer/Supplier | Lumicor®, Inc. |
| Chemical Name | Copolyester |
| Synonym(s) | PETG |
| OSHA Status | Nonhazardous |

2. COMPOSITION INFORMATION ON INGREDIENTS

| Component | Weight % | CAS Registry No. |
|-------------|----------|------------------|
| Copolyester | 100% | 25640-14-6 |

One or more of the following co-components may be present in trace amounts: Polyester, Rayon, Nylon, Aluminum, Raime, Cotton, Silk, Natural straw or foliage, Paper, Glass, Natural Shells, Wood, Bamboo.

3. HAZARDS IDENTIFICATION

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| Skin Contact: | Molten material will produce thermal burns. |
| Eye Contact: | "Inert" or "Nuisance" dust may cause abrasion or irritation. |
| Inhalation: | N/A |
| Ingestion: | Low hazard associated with normal conditions. |
| HMIS® Hazard Ratings: | Health - 1, Flammability -1, Chemical Reactivity - 0 |

In the United States of America, refer to NFPA® Pamphlet No. 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries."

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

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| Inhalation: | If symptomatic, move to fresh air. Get medical attention if symptoms persist. |
| Eyes: | If dust or molten material contacts the eye, immediately flush with water for at least 15 minutes. Call a physician. |
| Skin: | If burned by contact with molten material, cool as quickly as possible with cold water. Do not peel material from skin. Get medical attention for thermal burn. |
| Ingestion: | Material is not expected to be absorbed from the gastrointestinal tract so that induction of vomiting should not be necessary. |

5. PHYSICAL AND CHEMICAL PROPERTIES

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| Physical Form: | Solid resin |
| Appearance: | Clear to opaque |
| Odor: | Slight |
| Specific Gravity: | 1.27 |
| Softening Point: | 100°C / 210°F |
| Solubility in Water: | Negligible |
| Flash Point: | N/A |
| Auto-ignition Temperature: | 454°C / 849°F (ASTM E659) |

6. STABILITY AND REACTIVITY

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| Stability: | Not fully evaluated. Materials containing similar structural groups are normally stable. |
| Incompatibility: | Strong oxidizing agents. |
| Hazardous Polymerization: | Will not occur. |
| Thermal Decomposition: | Thermal stability not tested. Stability hazard expected to be low at normal operating temperatures. |

7. FIRE FIGHTING MEASURES

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| Extinguishing Media: | Water spray or dry chemical. |
| Fire Protection Equipment: | Wear self-contained, positive pressure breather apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |
| Hazardous Combustion Products: | Carbon dioxide, carbon monoxide |
| Unusual Fire and Explosion Hazards: | Powdered material may form explosive dust-air mixture. |

8. WASTE DISPOSAL/ACCIDENTAL RELEASE MEASURES

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| Disposal: | Landfill, recycle, or incinerate at a facility that complies with local, state and federal regulations. |
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9. HANDLING AND STORAGE

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| Maximum Storage Temperature: | 82°C / 180°F (softening temperature). |
| Storage Measures: | Keep from contact with oxidizing materials. |
| Handling Measures: | Minimize dust generation and accumulation. |

10. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Respiratory Protection: | None required under normal circumstances. If during processing of the material engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator Type: Dust, Organic Vapor. |
| Eye Protection: | Wear a face shield or safety glasses with side shields when working with molten material, or when sawing, cutting, or routing the material. |
| Skin Protection: | Wear cotton or canvas gloves to protect against thermal burns, cuts, or abrasions to the hands. |
| Ventilation: | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, mechanical generation of dusts, heating, drying, etc. |

12. REGULATORY INFORMATION**ENVIRONMENT**

WHMIS (Canada) Status: Noncontrolled.

Superfund Amendment and Reauthorization Act of 1986 (SARA 313): None.

Carcinogenicity Classification: None.

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.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing.

EINECS (European Inventory of Existing Commercial Chemical Substances): All components of this product are listed on EINECS. Any polymer intentionally present in this product has regulatory clearance under Directives of the European Union.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

TRANSPORTATION

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| DOT Hazard Class: | Not regulated |
| DOT Shipping Name: | N/A |
| ICAO Status: | Not regulated |
| IMDG Status: | Not regulated |

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 9 for Storage and Handling information.

13. OTHER INFORMATION

Lumicor®, Inc. believes that the information and recommendations contained herein (including data and statements) are factual and reliable as of the date hereof. Users should perform their own tests to determine the suitability of these products for their own particular purposes. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION CONTAINED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any other process. Further, the conditions and methods of use are beyond the control of Lumicor®, Inc. Lumicor®, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.