



The Plastics Group of America

Material Safety Data Sheet (MSDS)

| Section 1. Chemical Product and Company Information | | | |
|---|---|-------------------------|--|
| Product Name/ Trade Name | Polifil® GFPC Natural Glass-Reinforced Polycarbonate | Code(s) | Polifil® GFPC-10, GFPC-20, GFPC-30, GFPC-40 |
| Supplier | The Plastics Group of America 1112 River Street Woonsocket, RI 02895-0509 Web Site URL: www.4tpg.com | CAS# | Mixture-see below |
| | | In Case of Emergency | Call: (401) 767-2700 or MSDS@4TPG.COM |
| | | Information | Call: (401) 767-2700 or MSDS@4TPG.COM |
| | | Date Prepared | August 2005 |

| Section 2. Composition and Information on Ingredients | | | |
|---|------------|-------------|--|
| Name | CAS# | % by Weight | |
| 1. Polycarbonate | 24936-68-3 | >60% | |
| 2. Glass Fibers | 65997-17-3 | <40% | |
| 3. Stabilizers (Trade secret) | n/a | <5% | |
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| Section 3. Hazards Identification | |
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| 1. Effects of Acute Exposures. | Inhalation of glass fibers may result in irritation of upper respiratory tract |
| 2. Effects of Chronic Over Exposure. | None Determined |
| 3. OSHA Permissible Exposure Limits. | 5 mg/m3 Respirable Dust 15 mg/m3 Total Dust |
| 4. Carcinogen Potential: | |
| • National Toxicology Program: | Not Listed |
| • I. A. R. C. Monograph | Not Listed |
| • OSHA: | Not Listed |

| Section 4. Emergency and First Aid Procedures | |
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| Inhalation: | Dust and process vapors may be irritating to the nose, throat and respiratory tract. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get Medical attention. |
| Eyes: | Dust, fines and process vapors may irritate the eyes. Immediately flush eyes with water for at least 15 minutes. Get medical attention. |
| Skin: | Exposure to molten resin may cause thermal burns. If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Get Medical attention. |
| Ingestion: | No adverse health effects expected from ingestion. |

| Section 5. Fire and Explosive Data | |
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| Flash Point. | >650 °F |
| Upper Explosive Limit. | Not Determined |
| Lower Explosive Limit. | Not Determined |
| Auto Ignition Temp. | >650 °F (estimated) |
| Extinguishing Method. | Dry Chemical, Water Spray, Foam, Carbon Dioxide |
| Special Fire & Explosion Hazards. | Dense smoke emitted when burned without sufficient oxygen. Possible dust explosion if fines accumulate. Wear Standard fire fighting attire. |

Section 6. Accidental Release Measures

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| Land Spill. | Spilled material should be swept up and discarded. Comply with applicable federal, state and local regulations. |
| Water Spill. | Advise local authorities if spilled in waterway or sewer. Skim from surface of water if possible. |
| Waste Disposal. | Reclaim where possible. Dispose of in accordance with local and state regulations. This is not an RCRA hazardous waste. |

Section 7. Storage and Handling

1. Keep away from sparks, heat and flame.
2. This product may react with strong oxidizing agents and should not be stored near such materials.
3. Store boxes and bags of material in areas protected with automatic sprinklers. Use proper grounding procedures.
4. Inspect handling system regularly for possible accumulation of fines. Fines can present an explosive hazard when exposed to heat, sparks and open flames.

Section 8. Protective Measures

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| Skin. | Wear gloves when handling the material. |
| Ventilation. | Adequate ventilation is recommended to minimize accumulation of fines or vapors during processing and handling. |
| Respiratory. | Wear a dust mask in exposure areas. Where exposure to nuisance dust may exceed acceptable levels, use NIOSH/MSHA approved respiratory protection equipment. |
| Eyes and Face. | Wear safety glasses, face shield or chemical goggles to avoid getting material in the eyes during bulk handling. Eyewash fountains and safety showers should be easily accessible. |
| Protective Clothing. | When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over skin to prevent contact. |
| Other Measures. | Follow normal personal hygiene and good housekeeping practices. |

Section 9. Physical and Chemical Characteristics

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| Appearance and Odor. | Odorless Resin Pellets |
| Boiling Point. | Not Applicable |
| Solubility. | Insoluble in Water |
| Evaporation. | Not Applicable |
| Specific Gravity. | 1.20 to 1.60 (g/cm ³ @ 23 °C) |
| Vapor Pressure. | Not Applicable |
| Melting Point. | 230 °F (110°C) |
| Vapor Density. | Not Applicable |
| Percent Volatile. | Negligible |

Section 10. Reactivity

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| Stability. | This material is Stable. |
| Hazardous Polymerization. | Hazardous polymerization will not occur. |
| Conditions to Avoid. | Keep away from heat, sparks and flame. Avoid storage or contact with strong oxidizing agents. |
| Combustion Products. | The following combustion products may be generated: Carbon Dioxide, Carbon Monoxide, water vapor, and Trace Volatile Organic Compounds. |

Section 11. Additional Regulatory Information

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| This Material is not regulated by D.O.T. |
| This Material is not Hazardous by OSHA Hazardous Communication Standard 29 CFR 1910.1200 |
| This Material is on the TSCA Inventory. |
| This Material is not subject to specific CERLA reporting requirements. |
| This Material is not subject to SARA 313 reporting requirements. |
| This Material is not subject to California Safe Drinking Water and Toxic Enforcement Act (Proposition 65) reporting. |
| Canadian Environmental Protection Act (CEPA) All substances in this product are listed on the Canadian Domestic Substances List (DSL) |
| This Material is compliant with European RoHS Directives 2002/95/EC and 2003/11/EC and contains no restricted substances. |
| Hazard Material Information System (USA) Health - 0, Flammability - 1, Reactivity - 0 |

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