

## MRC Polymerc Inc. Material Saefty Data Sheet

### 1. Emergency Contact Phone Number

(773) 619-5652

### 2. Product Identification

Product Name: Emarex™ Polyamide Resin

Product Series: (Nylon 6): - 300, 300GF, 300GB, 300GFM, 305, 308, 300M  
 (Nylon 6.6): - 400, 400GF, 400GFM, 400M, 405, 405GF, 405M,  
 400PTFE, 406, 408

Ingredients	Typical Levels, %
Poly (hexamethylene adipamide)	55-99
Fiberglass/minerals/modifiers	<43
Non-regulated lubricants/stabilizers	<2

The resin in specifically designated colors may contain commercially available pigments (no heavy metals), generally at levels less than 1 percent, but sometimes at levels greater than one- percent carbon black.

This document is prepared pursuant to OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not hazardous to this OSHA standard may be listed. Where proprietary ingredient shows, the identity of this substance may be made available as provided in 29 CFR 1910.1200 ( I ).

### 3. Physical Data

*Melting Point:* 210 –265 C  
*Solubility in water:* Insoluble  
*Specific Gravity (H<sub>2</sub>O=1):* 1.07 - 1.38  
*Percent Volatile:* ca 1% (water)  
*Odor:* Slight

### 4. Fire and Explosion Data

*Extinguishing Media:* Water fog, carbon dioxide, and dry chemical, foam.

*Fire Hazards:* Dense black smoke emitted when burned without sufficient oxygen. Toxic fumes are released in fire situations.

*Unusual Fire and Explosion Hazards:* The product can form an explosive dust/air mixture. Avoid dust formation and control ignition sources; employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in operations capable of generating dust and/or static electricity.

**Fire-Fighting Procedures:** Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode and full body protection when fighting fires. Water may be used to keep fire-exposed containers cool until fire is out.

## 5. Reactivity Data

**Hazardous Polymerization:** Will not occur

**Stability:** Polymer decomposes above 320° C

**Incompatibility:** Incompatible or can react with strong acids, oxidizing agents

**Hazardous Decomposition:** Thermal breakdown products may include a complex mixture of organic and inorganic compounds, which may be flammable, toxic and/ or irritating. The specific materials generated will vary depending on the specific temperature and material type, time of exposure and other environmental factors.

## 6. Environmental and Disposal Information

**Spills and leaks:** To prevent falls sweep up spills and place in waste container. Incinerate for energy recovery or dispose of in accordance with all applicable local, state and federal regulations.

**Disposal Method:** Any disposal practice must be in accordance with local, state, and federal regulations. For unused or uncontaminated material, the preferred disposal options are to send to a licensed recycler, reclaimer, or incinerator. The same disposal options are recommended for used, or contaminated material, but additional evaluation is required.

## 7. Health Hazard Data

**Exposure:** This product as shipped (pelletized) should not present a health hazard during normal handling and processing as the glass and/or minerals and/or colorants and/or flame retardants and/or other additives are wetted by the polymer. Fabrications and processing operations should be reviewed to avoid generation of dusts and/or fiber particles, which may be considered hazardous.

**Eyes:** Solid or dust may cause irritation or cornea injury due to mechanical action.

**Skin Contact:** Prolonged or repeated exposure is not likely to be hazardous to skin. Cleansing the skin after use is a good practice.

**Inhalation:** Vapors are unlikely because of physical properties. Glass fibers in this product are non-resposable due to their size.

*Ingestion:* May cause choking if swallowed. Single dose oral toxicity is believed to be very low. Considered to be physiologically inert. Consult a physician if necessary.

*Systemic and Other Effects:* Repeated exposure to particles generated by grinding fiberglass-reinforced materials may result in implantation of particles in the skin. Other additives are not anticipated to cause any significant adverse effects. Pigments and dyes are fully encapsulated in the resin and are not expected to cause any hazardous condition when processed according to manufacturing procedures. Results of in vitro mutagenicity studies have been inconclusive.

## 8. First Aid

*Eyes:* Remove contact lenses at once. Flush with water, lifting upper and lower lids occasionally. Seek medical attention.

*Skin:* Contact with molten resin can cause severe thermal burns. Cool rapidly with water and immediately seek medical attention. Do not attempt removal of plastic without medical assistance. Do not use solvent for removal.

*Ingestion:* No adverse effects anticipated by this route of exposure incidental to proper industrial handling. If a large amount is swallowed, seek medical attention.

*Inhaled:* If exposed to fumes from overheating or combustion, move to fresh air. Physician's consultation is necessary if symptoms persist.

## 9. Handling Precautions

*Skin:* Wear clean, long-sleeved, body-covering clothing. Under dry conditions, cloth gloves should provide adequate protection.

*Respiratory:* If handling at elevated temperatures and overexposure has been determined, an air-respirator is advised in the absence of proper environmental control.

*Ventilation:* Provide sufficient mechanical ventilation to maintain exposure level below the level of over exposure.

*Eyes:* Wear safety glasses in compliance with OSHA regulations.

## 10. Handling and Storage

Practice reasonable care and cleanliness. Ventilation should be provided at processing machinery to control fumes. There should be proper dust collection systems in place to avoid any dust accumulation.

**11. Regulatory Information (Not to be all inclusive)**

The information in this document is provided with good intentions and believed to be accurate, but no warranty is expressed or implied. Recipients are advised to confirm in advance of the need that the information is current, applicable, and suitable to their circumstances. Recipients are responsible for ensuring that its activities are in accordance with local, state and federal regulations.

- SARA HAZARD CATEGORY: Not to have met any hazard category
- TOXIC SUBSTANCES CONTROL ACT (TSCA) and Canadian Domestic Substance List (DSL): All ingredients are on the TSCA/DSL inventory or not required to be listed on the TSCA/DSL inventory.
- THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): This product is not a "hazardous Chemical" as defined by the OSHA hazard communication standard,
- THE CANADIAN WORKPLACE HAZARDOUS Materials information system (WHMIS) classification: Not a "Controlled Product" under WHMIS.
- CALIFORNIA PROPOSITION 65 (CA-65): MRC does not add intentionally any chemical known to State of California under the California Proposition 65 list. This product will not necessarily cause cancer or reproductive harm if used as designed.

**12. Disposal Considerations**

Disposal method must be in compliance with all Federal, State and Local laws. Do not dump into any sewers, on the ground or into any body of water. For unused product contact a waste management company or a licensed recycler.

**13. Transport Information**

US Department of Transportation (D.O.T) and Canadian TDG, does not regulate this product when shipped domestically by land.