

**Material Safety Data Sheet**

February 1, 2012

Product Name : Polylac<sup>®</sup> PA-777D

**1. COMPANY IDENTIFICATION**

Company Chi Mei Corporation  
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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Acrylonitrile-Butadiene -Styrene copolymer	$\alpha$ -methylstyrene copolymer	N-Phenylmaleimide copolymer	Additive (Lubricants & Antioxidants)
Content	15 - 35 %	10 - 40 %	45 - 75 %	< 3 %
CAS No.(TSCA No.)	9003-56-9	9010-96-2	31621-07-5	
Impurities contributing to Hazard	None			

**3. HAZARD IDENTIFICATION**

Most Important Hazards None  
Adverse Human Health Effects None  
Environmental Effects None  
Physical and Chemical Hazards None

**4. FIRST AID MEASURES**

Inhalation In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically.  
Skin Contact In case of pellets or powder, wash with water.  
In case of melt, wash affected skin area and clothing with plenty of (soap and) water. Seek medical advice.  
Eye Contact In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek medical advice if any dust particles still remain.  
In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.  
Ingestion Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

**5. FIRE-FIGHTING MEASURES**

Extinguishing Media Water, Foam, Dry chemical powder  
Special Fire-Fighting Procedure Self contained breathing apparatus  
Fire and Explosion Hazards None

**6. ACCIDENTAL RELEASE MEASURES**

Methods for Cleaning up Recovery if not contaminated or Disposal  
Personal Precautions Pellets or powder remained on ground may cause slipping  
Environmental Precautions Gather pellets and powder thoroughly to avoid birds or fishes taking from draining water.

**7. HANDLING AND STORAGE**

Handling Prevent from fire around handling area. Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.  
Storage Keep the materials at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Threshold Limit Value		Not determined
Ventilation		Necessary to exclude dust, fumes and gases.
Personal Protection	Eye	Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines.
	Respiratory	Wear masks for cleaning molding machines.
	Gloves	Necessary for handling melted resin.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Off white pellets
Melting Temperature	Softening above 115 °C
Solubility	Insoluble in water
Specific Gravity	1.03 ~ 1.10

**10. STABILITY AND REACTIVITY**

Flammability	Yes
Flash Point	404 °C
Auto-ignition Temperature	466 °C
Reactivity with Water	No
Stability	Stable and non-reactive under normal handling and storage condition.
Dust Explosion	Possible if powder exists. Explosion data for powder (< 145 mesh)
	Lower explosion limit 45 g/m <sup>3</sup>
	Minimum ignition energy 3.6 mJ
	Maximum explosion pressure 7 x 10 <sup>5</sup> Pa
	Maximum pressure increase rate 3.2 x 10 <sup>7</sup> Pa/S
Thermal Decomposition Gases	CO, HCN, AN, SM and NO
Combustion Energy	3.53 x 10 <sup>7</sup> J/kg (8424 Kcal/kg)

**11. TOXICOLOGICAL INFORMATION**

Irritation	Fumes or vapors generated from decomposing resin may be irritant to eyes.
Acute oral toxicity (LD50)	Not determined
Mutagenicity	Not determined

**12. ECOLOGICAL INFORMATION**

To avoid being taken by ocean species or birds, disposal of the waste to the ocean and water sources is inhibited.

**13. DISPOSAL CONSIDERATIONS**

Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution.  
Inadequate incineration may generate toxic gases such as CO, HCN, AN and SM.

**14. TRANSPORT INFORMATION**

Not classified

**15. REGULATORY INFORMATION**

Not available

**16. OTHER INFORMATION**

None