

## Material Safety Data Sheet

November, 18, 2010 VIW

Product Name : Polyrex<sup>®</sup> PH-55Y PH-60 PH-60C PH-60F PH-88 PH-88H  
PH-888H PH-60G PH-888G PH-88S PH-88SF

### 1. COMPANY IDENTIFICATION

Company Chi Mei Corporation  
Address 59-1, SAN CHIA, JEN TE VILLAGE, TAINAN COUNTY, TAIWAN, ROC.  
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### 2.COMPOSITION / INFORMATION ON INGREDIENTS

Substance or Preparation	Substance
Chemical Name	Styrene-Butadiene Copolymer
Content	> 96 % (Additives ≤ 4 %)
Formula	(C <sub>8</sub> H <sub>8</sub> ) <sub>m</sub> (C <sub>4</sub> H <sub>6</sub> ) <sub>n</sub>
CAS No.	9003-55-8
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 90 °C
Solubility	Insoluble in water
Specific Gravity	1.03 ~ 1.06

## 10.STABILITY AND REACTIVITY

Flammability	Yes
Flash Point	350 °C
Auto-ignition Temperature	490 °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 15 g/m <sup>3</sup> Minimum ignition energy 40 mJ Maximum explosion pressure 5 x 10 <sup>5</sup> Pa Maximum pressure increase rate 3.4 x 10 <sup>6</sup> Pa/S
Thermal Decomposition Gases	CO, CO <sub>2</sub> , SM and dimer
Combustion Energy	4.16 x 10 <sup>7</sup> J/kg (9930 Kcal/kg)

## 11. HEALTH HAZARD DATA

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 and SM.

## 14.TRANSPORT INFORMATION

Not classified

## 15.REGULATORY INFORMATION

Not available

## 16.OTHER INFORMATION

None