

## Material Safety Data Sheet

March 12, 2013

**Product Name : WONDERLOY® PC-540**

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Company	CHI MEI Corporation
Address	59-1, San Chia, Jen Te, Tainan City, Taiwan, ROC.
Information Phone No.	886-6-2663000 Ext.6122 (Safety & Health Development)
Emergency Phone No.	886-6-2663000 Ext.6122 (Safety & Health Development)
Fax No.	886-6-2660158

### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Polycarbonate	ABS	Aromatic Oligomeric Phosphate
Content	> 50 %	< 30 %	< 20 %
Formula	$-(O-C_6H_4-C(CH_3)_2-C_6H_4-O-CO-)_n$	$(C_3H_3N-C_4H_6-C_8H_8)_n$	$(C_6H_5O)_2PO(O-C_{15}H_{14}-OPO(OC_6H_5))_nOC_6H_5$ (the main ingredient : n=1~4)
CAS No.	25929-04-8	9003-56-9	181028-79-5

### **3. HAZARDS 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 molten 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 20 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 20 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 equipments as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.
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Storage	Keep the material at a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Fire is inhibited around storage area.
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## 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 machine.
	Respiratory	Wear masks for cleaning molding machine.
	Gloves	Necessary for handling molten resin.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pellet
Melting Temperature	Not applicable
Solubility	Insoluble in water
Specific Gravity	1.15~1.20
Flammability	Yes
Flash Point	Not applicable
Autoignition Temperature	> 450 C

## 10. STABILITY AND REACTIVITY

Reactivity with Water	No
Stability	Stable and non-reactive under normal handling and storage conditions.
Thermal Decomposition Gases	Processing fumes evolved at recommended processing conditions may include trace levels of triaryl phosphate ester, styrene, alkyl phenols, acetophenone, cumene, phenol, alpha-phenol, diarylcarbonates, ...etc.

## 11. TOXICOLOGICAL INFORMATION

Irritation	Fumes or vapors generated from decomposing resin may be irritant to eyes.
Acute oral toxicity (LD50)	Oral LD50(Rat) > 5g/kg, estimated.
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<sub>2</sub>, CO, HCN, AN, SM, phosphorus oxides, and hydrocarbon fragments.

## 14. TRANSPORT INFORMATION

Not regulated

## 15. REGULATORY INFORMATION

Not available

## 16. OTHER

The data given above is believed accurate and for reference only.