

## ***Material Safety Data Sheet***

April 7, 2009

**Product Name: WONDERLITE® PC-108 , PC-110 , PC-115 , PC-122 , PC-108U , PC-110U , PC-115U , PC-122U , PC-110V , PC-110L , PC-105G**

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

Company CHI MEI Corporation  
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### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name : Polycarbonate [Poly (bisphenol-A carbonate)]  
Content : > 99 % (Additives < 1 %)  
Formula :  $-(O-C_6H_4-C(CH_3)_2-C_6H_4-O-CO-)_n$   
CAS No. : 25929-04-8

### **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.  
Storage Keep the material 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 machine.
	Respiratory	Wear masks for cleaning molding machine.
	Gloves	Necessary for handling molten resin.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Pellet
Melting Temperature	Softening above 135°C
Solubility	Insoluble in water
Specific Gravity	1.18 ~ 1.20
Flammability	Yes
Flash Point	Not applicable
Autoignition Temperature	> 550°C (estimated)

**10. STABILITY AND REACTIVITY**

Reactivity with Water	No
Stability	Stable and non-reactive under normal handling and storage conditions.
Thermal Decomposition Gases	Hazardous combustion products may include dense black smoke, CO <sub>2</sub> , CO, and hydrocarbon fragments. Fumes evolved during processing may include trace levels of aliphatic and aromatic hydrocarbons, acids, phenol, and phenol derivatives.

**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 and hydrocarbon fragments.

**14. TRANSPORT INFORMATION**

Not regulated

**15. REGULATORY INFORMATION**

This product conforms with the Chemical Substance Inventory requirements of the US EPA Toxic Substances Control Act (TSCA).

**16. OTHER**

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