

Material Safety Data Sheet

Product Name : WONDERLOY® PC-540

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company CHI MEI Corporation
 Address 59-1, San Chia, Jen Te District, Tainan City, Taiwan, ROC.
 Information Phone No. 886-6-2663000
 Emergency Phone No. 886-6-2663000
 Fax No. +886-6-2665555~7
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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)
CAS No.	24936-68-3	9003-56-9	5945-33-5

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.

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	This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.
Solubility	Insoluble in water
Specific Gravity	> 1
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)	Not detected
Mutagenicity	Not detected

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 CO₂, 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.