

# Material Safety Data Sheet

## POLYSIS Co. Ltd

2374-1 Terazima Hamakita-ku Hamamatsu-si Shizuoka-ken JAPAN

Post Code : 434-0035

PHONE : +81-53-586-9410

Emergencies Phone : +81-53-586-9410

Issue Date : 13/Apr./2007

### Section.1 PRODUCT IDENTIFICATION

Product Name	<b>Polycrystal PC-18 No.2</b>
Chemical Family	Polyurethane System Material based by 2component (R:RESIN , H:HARDENER)

Table1 Product Identification

ITEM	RESIN	HARDENER
TSCA Info.	mixture	single
Chemical Name	poly blend	modified polyisocyanate
Component	polyol	99.80%
	catalyst	0.10%
	silicon	0.10%
CAS No.	industrial secret	N/E
UN No.	N/E	

### Section.2 HAZARDOUS INGREDIENTS

Table2 Hazardous ingredients

ITEM	RESIN	HARDENER
PRTR	N/E	
ACGIH	N/E	
OSHA	N/E	

### Section.3 PHYSICAL / CHEMICAL DATA

Table3 Physical / Chemical Data

ITEM	RESIN	HARDENER
Appearance	clear liquid	
Density	1.03	1.16
Melting Point	-22℃	-20℃
Solvility In Water	non-sol.	
Smell	non-smell nearly	
Vapor Pressure	---	

### Section.4 REACTIVITY DATA

Table4 Reactivity Data

ITEM	RESIN	HARDENER
Storage Stability	stable	
Reactivity	absorb water(vapor) react with isocyanate with generating heat	react with water to produce CO <sub>2</sub> gas. react with alcohol and amine.
Condition To Avoid	high heat and exposure to air	
Material To Avoid	water , alkali , amine and oxidizer	
Hazardous Polymerization	won't occur	

**Section.5 FIRE AND EXPLOSION**

Table5 Fire And Explosion

ITEM	RESIN	HARDENER
Flash Point	292°C	225°C
Extinguishing Media	dry chemical , water spray , foam or carbon dioxide	
Hazardous Thermal Decomposition products	include oxides of carbon	include oxides of carbon , nitro-gen
Special Fire Fighting Procedures	avoid breathing smoke and vapor	
Unusual Fire And Explosion Hazards	none known	

**Section.6 HEALTH HAZARD INFORMATION**

Table6 Health Hazard Information

ITEM	RESIN	HARDENER
Inharant Toxicity	none known	none known
Oral Toxicity	none known	LD50(rat) ≥ 5000mg/kg
Skin Irritation	none known	irritate skin
Eye Irritation	none known	none known

**Section.7 FIRST AID**

Table7 First Aid

ITEM	RESIN	HARDENER
Inharation	Remove to fresh air and keep warm and quiet. If abnormal respiration is observed , get medical attention.	
Eye Contact	Flush copiously with water for at least 15min. Whilst keeping the eyes wide open. Consult a physician if irritation persists	
Skin Contact	Immediately flush skin with plenty of water while remove contamnated clothes and shoes. If the site stings or blisters , consult a physician.	
Ingestion	Induce vomitting immediately by giving two glasses of water and sticking finger down throat. Get medical attention.	Give milk or water immediately. <b>Don't induce vomitting.</b> Call a physician or transpor to emergency facility immediately.

**Section.8 PERSONAL PROTECTION / EXPOSURE CONTROLS**

Table8 Personal Protection and Exposure Controls

ITEM	RESIN	HARDENER
Exposure Limits	not established by OSHA / ACGIH	
Eye Protection	chemical goggles or safety glasses	
Protective Gloves	recommended	
Local Exhaust Ventilation	recommended	
Other	rubber safety clothes or impervious clothes , safety hat , rubber safety shoes or impervious boots	

**Section.9 ENVIROMENTAL PROTECTION**

Table9 Enviromental Protection

ITEM	RESIN	HARDENER
Spill Or Leak	Take up small spills with absorbents(paper or towels) and place in a container for disposal. Large spills may be taken up with pump or vacuum and finished with absorbents.	
	CLOSE CONTAINER	<b>DON'T CLOSE CONTAINER</b>
Disposal Methods	Incinerate or place in a suitable container for disposal by a licenced contractor.	Neutralize absorbed spills with water(95) , ammmonia(5) , detergent( $\leq 0.3$ )
	Spills should be disposed of according to good waste management practices and in compliance with applicable local , state , and federal regulations.	

**Section.10 STORAGE AND HANDLING / TRANSPORT**

Table10 Storage And Handling / Transport

ITEM	RESIN	HARDENER
Storage Requirement Handling Transport	store in well-ventilated , cool , dry , area.	
	purge with nitrogen and close container when not in use.	
	keep away from sparks , open flames.	
	no smoking.	
	store , handling , package , label and transport in accordance with corresponding laws.	

**Section.11 ADDITIONAL PRECAUTIONS OR COMMENTS**

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