



# SIAM CASTING POWDERS LTD.

## INVESTMENT POWDER MATERIAL SAFETY DATA SHEET

### 1. PRODUCT IDENTIFICATION

**PRODUCT NAME :**

SIAMCAST VALUE  
SIAMCAST PROFESSIONAL  
SIAMCAST SUPREME  
SIAMCAST OMEGA MAXX

**MANUFACTURER**

Siam Casting Powders Ltd.  
185 Moo 5 Salaya  
Bhudhamontol Nakornpathom 73170  
Thailand  
E-mail: scp@siamcastingpowders.co.th      www.siamcasting.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Cristobalite (Silicon dioxide, SiO<sub>2</sub>)  
Silica (Silicon dioxide, SiO<sub>2</sub>)  
Plaster (Calcium sulfate hemihydrate, CaSO<sub>4</sub>·½H<sub>2</sub>O)  
Additive

### 3. HAZARDS IDENTIFICATION

These products contain crystalline silica. Prolonged exposure to respirable crystalline silica may cause chronic lung injury (silicosis). There is limited evidence that suggests that crystalline silica may cause cancer in humans.

**EMERGENCY TELEPHONE NUMBER**  
**(034) 246037-8**

### 4. FIRST AID

Oral : Give plenty of water to drink and seek medical advice.  
Eye : Wash with copious amounts of water. If irritation persists, seek medical advice.  
Skin : Wash with soap and water.  
Inhalation : Remove from exposure immediately. Seek medical advice.

### 5. FIRE AND EXPLOSION

These products are non-flammable. There are no limitations on extinguishing media.

## 6. EMERGENCY / ACCIDENTAL

Personal precautions : See section 8 Exposure controls / personal protection.  
Spillage : Small quantities can be washed to drain with plenty of water. Larger quantities should be collected by vacuum.

## 7. HANDLING AND STORAGE

### HANDLING

The uses of engineering measures (e.g. local dust extraction) are recommended to provide effective dust control in order to ensure compliance with the current Occupational Exposure Limits (OEL.).

### STORAGE

Store under normal dry conditions. Keep containers closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

C.A.S. No.	SUBSTANCE	OEL. (mg/m <sup>3</sup> )
14464-46-1	Cristobalite	0.05
14808-60-7	Silica	0.1
7778-18-9	Gypsum	5

### PERSONAL PROTECTION

Respiration : The use of a dust mask or equivalent to EN149, Category FFP2S, and the provision of dust extraction/ventilation where dust is produced are recommended.

Hands : Gloves

Eyes : Goggles

Skin : General protective overalls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: White powder
Odour	: None
pH	: 8 – 9
Boiling point	: Not applicable
Melting point	: Not applicable
Flash point	: Not applicable
Flammability	: Non flammable
Explosive properties	: Not applicable
Relative density	: 2.4
Solubility in water	: Non soluble
Particle size	: Typically 95% < 0.053 mm.

## 10. STABILITY AND REACTIVITY

The material is considered to be stable, but can react with hydrofluoric acid and produce the corrosive gas silicon tetrafluoride.

## 11. TOXICOLOGICAL INFORMATION

Prolonged exposure to respirable crystalline silica may cause chronic lung injury (silicosis). Silicosis is a form of disabling pulmonary fibrosis, which can be progressive and may lead to death. Acute developing silicosis may occur in a short time in heavy exposure. There is limited evidence that suggests that crystalline silica may cause cancer in humans.

## 12. ECOLOGICAL INFORMATION

According to our experience, no adverse effects are to be expected. The product should not however be discharged in large quantities into the public sewage system.

## 13. DISPOSAL CONSIDERATIONS

As required by Local Regulations (e.g. by landfill) at an approved site.

## 14. TRANSPORTATION

No special precautions are required. This product is not classified as dangerous for conveyance.

## 15. REGULATORY INFORMATION

This product is classified as "Harmful" for the supply due to its crystalline quartz content, under the current Chemicals (Hazard Information and Packaging) Regulations.

The appropriate risk and safety phrases are : Harmful by inhalation (R20)  
Danger of cumulative effects (R33)  
Do not breathe dust (S22)  
Possible risk of irreversible effects (R68)

## 16. OTHER INFORMATION

### LIABILITY

Such information given on this Material Safety Data Sheet is to the best of our knowledge and belief, accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.