

Date Issue :

Issue Number:

## 1. Identification Of Material

**Product:** Jewellery Investment Powder  
**Steelcast**

**Manufacturer:** Specialist Refractory Services Ltd  
The Amber Business Centre  
Riddings, Derbyshire. DE55 4BR  
Tel. 0044 - (0)1773 608969 Fax. 0044 - (0) 773 540105



## 2. Composition

A blend of silica, phosphates and magnesia with traces of modifying additives which are non-hazardous at the levels of addition.

Crystalline Silica CAS 14808-60-7

	% composition
Quartz	50-70%
Cristobalite	20-30%
Mono-ammonium Phosphate	3-7%
Magnesia	2-5%

## 3. Hazards Identification

This product contains crystalline silica. Long term over exposure to crystalline silica may cause chronic lung injury (silicosis).

## 4. First-Aid Measures

- Skin contact** - Wash off with soap and water. Remove badly contaminated clothing.
- Eye contact** - Irrigate immediately with copious amounts of water. If irritation persists consult medical advise.
- Inhalation** - Remove from exposure immediately. Seek medical advice.
- Ingestion** - Unlikely to cause an adverse reaction. Do not induce vomiting. Drink water and seek medical advice if symptoms develop.

## 5. Fire-Fighting Measures

This is a non-flammable product which will not support combustion. There are no limitations on extinguishing devices.

## 6. Accidental Release Measures

Contain spillages and remove using ventilated vacuum cleaning systems. Care must be taken when emptying cleaner. Small quantities can be washed to drain with plenty of water, larger quantities can be collected by vacuum or wet sweeping.

Personal precautions: see section 8 Exposure Controls/ Personal Protection

## 7. Handling And Storage

- Handling** - Avoid contact with skin and eyes. Use in a well ventilated area. Avoid inhaling dust. Do not eat drink or smoke in areas where the material is used. Recommend the use of engineering measures (e.g. local dust extraction) to provide effective dust control to comply with current Occupational Exposure Limits.
- Storage** - Store in cool, dry environment.

## 8. Exposure Controls/ Personal Protection

The use of skin and eye protection is recommended. Exposure to dust should be assessed and monitored at every stage of the casting process. Wear suitable dust masks if the OEL cannot be achieved by local exhaust ventilation (FFP2 or FFP3 types)

### Occupational Exposure Limit

C.A.S. No.	SUBSTANCE	O.E.L. mg/m <sup>3</sup>
14464-64-1	Cristobalite	0.05
14808-60-7	Quartz	0.1
7722-76-1	Mono ammonium phosphate	10
1309-48-4	Magnesia	10

### Personal Protection

Respiratory:	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. Soiled clothing must be adequately laundered to avoid becoming a dust source.

## 9. Physical appearance and Chemical properties

Colour:	Off white
Appearance:	Gritty powder
Odour:	None
PH:	5-6
Relative Density:	2.4

## 10. Stability And Reactivity

Stable.

## 11. Toxicological Information

Inhalation:	Dust from this product may irritate the respiratory.
Skin contact:	May cause irritation in sensitive individuals.
Eye contact:	Irritation is unlikely.
Ingestion:	May cause irritation.
Long term exposure:	Prolonged and repeated contact with this material could lead to respiratory tract damage, silicosis or pneumoconiosis.

## 12. Ecological Information

No adverse effects are to be expected. However avoid contamination of drains and water sources.

## 13. Disposal Considerations

As an inert solid in accordance with local waste disposal legislation.

## 14. Transport Information- not classified as dangerous

No special precautions required, product not classified as dangerous.

## 15. Regularity Information

EC Supply Labelling	Harmful
R-Phrases	Harmful by inhalation Danger of serious damage to health by prolonged exposure.
S-Phrases	Do not breath dust.