



# SAFETY DATA SHEET

SDS No.: SEC-SDS-CAS08

Revision No.: 04

SIAM ENGINEERING CERAMICS CO.,LTD.

Issue Date: 29 MAY 2024

## CASTABLE

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name :** CAST-18  
**Product Code :** PC0800  
**Chemical Name :** HIGH ALUMINA CASTABLE  
**Product Use :** REFRACTORY CASTABLE MATERIAL  
**Manufacturer/Supplier :** SIAM ENGINEERING CERAMICS COMPANY LIMITED  
204/6 Village No.7 Charoen Tham Sub-District, WihanDaeng District,  
Saraburi, Thailand 18150  
Tel. +66-3634-0414, Fax. +66-3634-0242  
Email. [sec@secrefrac.com](mailto:sec@secrefrac.com)

### 2. HAZARD IDENTIFICATION

#### Hazardous Substance. Non-dangerous Goods

Long term overexposure to mineral dusts may reduce breathing capacity and make the lungs more vulnerable to respiratory disease. Overexposure to dust may cause irritation to eyes, skin and respiratory tract. Wet Castable can irritate the eyes and skin and cause alkali burns.

#### Risk Phrases

R36/R37/38 : Irritating to eyes, respiratory system and skin.

R43 : May cause sensitization by skin contact.

#### Safety Phrases

S2 : Keep out of the reach of children.

S24/25 : Avoid contact with skin and eyes.

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.



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## 3. COMPOSITION/INFORMATION ON THE COMPONENTS

Composition	CAS. No.	Proportion
Al <sub>2</sub> O <sub>3</sub>	1344-28-1	90.0-97.0 %
SiO <sub>2</sub>	7631-86-9	0.5-2.0 %
Fe <sub>2</sub> O <sub>3</sub>	1309-37-1	0.0-1.0 %

## 4. FIRST AID MEASURES

- Swallowed :** Rinse mouth and lips with water. Do not induce vomiting. Give water to drink to dilute stomach contents. If symptoms persist, seek medical attention.
- Eyes :** Flush thoroughly with flowing water for 15 minutes to remove all traces. If symptoms such as irritation or redness persist, seek medical attention. If wet Castable is splashed in the eye, always treat as above, and seek urgent medical attention.
- Skin :** Remove heavily contaminated clothing immediately. Wash off skin thoroughly with water. Use a mild soap if available. Shower if necessary. Seek medical attention.
- Inhalation :** Remove to fresh air, away from dusty area. If symptoms persist, seek medical attention.
- First Aid Facilities :** Eye wash station. Washing facilities with running water.
- Advice to Doctor :** Treat symptomatically. Wet Castable burns to skin or eye may result in corrosive caustic burns. Ingestion of significant amounts of Castable dry or wet is unlikely. Do not induce emesis or perform gastric lavage. Neutralization with acidic agents is not advised because of increased risks of exothermic burns. Water-mineral oil soaks may aid in removing hardened Castable from the skin. Ophthalmological opinion should be sought for ocular burns.



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## 5. FIRE FIGHTING MEASURES

<b>Fire/Explosion Hazard :</b>	None.
<b>Flammability :</b>	Not flammable.
<b>Extinguishing Media :</b>	Not readily combustible. Use water spray, foam, dry chemical or carbon dioxide.
<b>Hazards from Combustion</b>	None.
<b>Products :</b>	
<b>Protective Equipment for Fire-Fighting :</b>	A self-contained breathing apparatus should be used to avoid inhalation of the product.

## 6. ACCIDENTAL RELEASE MEASURES

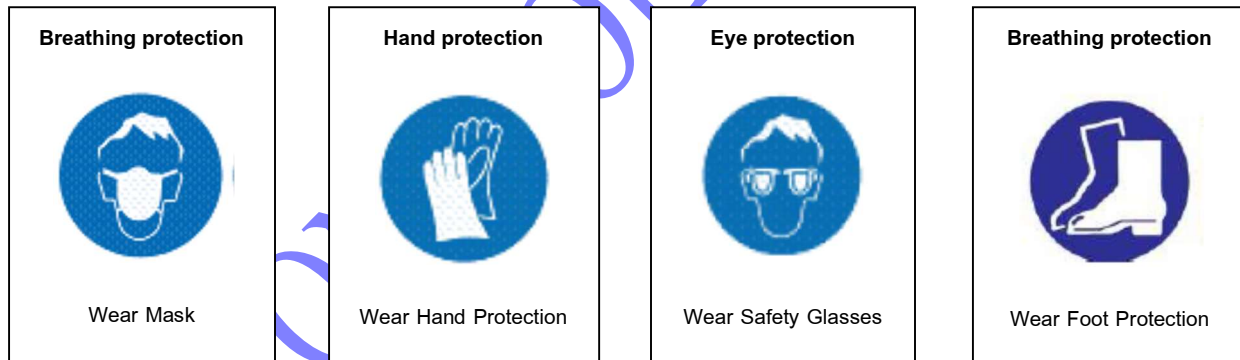
<b>Personal Precautions :</b>	Wear appropriate protective clothing.
<b>Environmental Precautions and Clean-up Methods :</b>	Vacuum or sweep up material and place in a designated labeled waste container. Try to prevent the material from entering drains or water courses.
<b>Spillages :</b>	Spillages should be removed promptly. Floors may become slippery where this product has been spilled, especially when wet. Sweep up into suitable containers for recovery or disposal. Avoid creating a dust.

## 7. HANDLING AND STORAGE

<b>Handling :</b>	Avoid creating a dust. Use in well ventilated area. Avoid contact with eyes, skin and clothing.
<b>Storage :</b>	Keep container tightly closed in a cool, well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Engineering Control Measures :</b>	Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
<b>Respiratory Protection :</b>	Good ventilation should be provided to keep airborne dust levels below exposure limits. Dust mask if conditions are dusty.
<b>Hand Protection :</b>	Wear suitable impervious gloves.  The nature of the work in hand will determine the choice of gloves.
<b>Eye Protection :</b>	Wear safety glasses if risks of accidental contamination are possible during application.
<b>Other Protective Clothing or Equipment :</b>	Wear full long-sleeved clothing closed at the neck to prevent skin contact. Use extra precaution especially with the hands and eyes when steel needles are contained in the product.


**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State :</b>	Dry Powder/ Granules
<b>Color :</b>	Off-White
<b>Odor :</b>	Odourless
<b>pH :</b>	7-8



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<b>Solubility :</b>	Slightly soluble
<b>Boling/Melting Point :</b>	More than 1800 °C
<b>Specific Gravity :</b>	3.70-3.80 g/cm <sup>3</sup>
<b>Vapour Pressure :</b>	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Flammability :</b>	Not flammable
<b>Auto-ignition Temperature:</b>	Not ignition
<b>Dust Explosion hazard :</b>	Dust from this product may be capable of igniting and propagating a flame.

## 10. STABILITY AND REACTIVITY

Castable is stable, compatible with most other building materials, will not decompose into hazardous by-products and does not polymerise.

<b>Stability :</b>	Stable under normal conditions.
<b>Conditions to avoid :</b>	No decomposition if stored and applied as directed.
<b>Hazardous Decomposition</b>	None.
<b>Products :</b>	
<b>Incompatible Materials:</b>	None.

## 11. TOXICOLOGICAL INFORMATION

There is no direct toxicological data on this product.

<b>Acute toxicity :</b>	Low order of acute toxicity.
<b>Eye irritation :</b>	The product should be considered as a severe eye irritant.
<b>Skin irritation :</b>	May cause slight transient irritation.



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## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Product forms an alkaline slurry when mixed with water.
<b>Persistence and Degradability:</b>	Product is persistent and would have a low degradability.
<b>Mobility:</b>	A low mobility would be expected in a landfill situation.

## 13. DISPOSAL CONSIDERATIONS

Castable can be treated as a common waste for disposal or dumped into a landfill site, in accordance with local authority guidelines. Keep material out of storm water and sewer drains. Measures should be taken to prevent dust generation during disposal, and exposure and personal precautions should be observed (see above)

## 14. TRANSPORT INFORMATION

Transportation is done in bulk or bag form by Ship, Rail and Road.

<b>UN Number:</b>	None allocated.
<b>Proper Shipping Name:</b>	None allocated.
<b>Class and Subsidiary Risk:</b>	None allocated.
<b>Packing Group:</b>	None allocated.
<b>Hazchem Code:</b>	None allocated.
<b>Hazard Classes :</b>	Transportation is not dangerous.
<b>Environmental Hazard :</b>	Transportation is not dangerous.



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## 15. REGULATORY INFORMATION

Castable is not classified as Dangerous Goods. Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition. Exposures by inhalation to high levels of dust may be regulated under the Hazardous Substances Regulations (State) as they are applicable to Respirable Crystalline Silica, requiring exposure assessment, controls and health surveillance (NOHSC).

## 16. OTHER INFORMATION

It is recommended that the product only be employed for the purposes advised.

Risk classification system NFPA 704 :



Health hazard : 1 (Irritants Material)  
Flammability : 0 (Will not burn)  
Reactivity : 0 (Stable)

**First Issue Date :** 1 September 2016

**Revisions Highlighted :** Future revisions will incorporate such information as is required but which is not available at this time.

**Uses and Restrictions :** Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.



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**Footnote :**

The information contained in this Safety Data Sheet on the Preparation is based on current knowledge and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Data Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of this properties. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the Technical Data Sheet prior to use.

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