

Product Name **CAST 16 T**

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## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Product Name CAST 16 T

Product Group High Alumina Castable

Supplier Name THE SIAM REFRACTORY INDUSTRY Co., Ltd.

Address 1 Siam Cement Road, Bangsue, Bangkok 10800, THAILAND

Telephone (662) 5863241-9

Fax (662) 5872149

Emergency (668)19346976

Web site [www.siamrefractory.com](http://www.siamrefractory.com)

Recommended Use High Temperature Thermal Insulation

For additional MSDSs and to confirm the most current MSDS of this product, please visit our website ([www.siamrefractory.com](http://www.siamrefractory.com))

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## 2. HAZARDS IDENTIFICATION

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Hazard classification Not classified as a hazardous material according to criteria of NOHSC  
NON-HAZARDOUS SUBSTANCE.  
NON-HAZARDOUS GOODS.

Risk phrase (s) Not classified as a hazardous material according to criteria of NOHSC

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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| Ingredient        | CAS Number | Proportion (%) |
|-------------------|------------|----------------|
| Alumina           | 1344-28-1  | 50-70          |
| Silica            | 14808-60-7 | 20-40          |
| Calcium Aluminate | 65997-16-2 | 0-20           |

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## 4. FIRST AID MEASURES

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| Eye Contact  | If in eyes, hold eyelids apart and flush the eyes thoroughly and continuously with running clean water. Continue flushing for at least 15 minutes. If irritation persists, seek medical attention. Contact lenses removal should only be undertaken by skilled personnel. |
| Skin Contact | Wash areas of contact with clean water and pH-neutral soap. If irritation continues, seek medical attention.                                                                                                                                                              |
| Inhalation   | Move to fresh air. Seek medical attention if coughing or other symptoms persist.                                                                                                                                                                                          |
| Ingestion    | As shipped, product not likely to be ingested; but if it occurs, do not induce vomiting, drink plenty of water. Seek medical attention.                                                                                                                                   |

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## 5. FIRE FIGHTING MEASURES

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|------------------------------|--------------------------------------------|
| Flammability                 | Non flammable                              |
| Fire and Explosion           | Non flammable. No fire or explosion exists |
| Suitable Extinguishing media | No specific requirements                   |

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## 6. ACCIDENTAL RELEASE MEASURES

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Precautions | Avoid direct contact with product or dusts from product by wearing protective clothing, using approved respiration protection and wearing gloves. |
| Cleanup measures     | Dry sweeping of materials should be avoided to minimize dust emissions into the air.                                                              |

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## 7. HANDLING AND STORAGE

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| Precautions for Safe Handling | Avoid direct contact with product or dusts from product by wearing protective clothing, using approved respiratory protection and wearing gloves of the impermeable type. |
| Conditions for safe storage   | The product should be kept in a dry location until used and away from sources of heat (furnaces, boilers, incinerators, etc.).                                            |

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Engineering Controls                   | Process enclosures, local exhaust ventilation, or other engineering process controls may be necessary to keep any air contaminants associated with this product within their TLV's. This is particularly true if user operation generates dust.                                                                                                                                                                                                                                                                                           |
| Respiratory Protection                 | This product is a proprietary mixture of unique ingredients. It does not have an established limit for airborne concentration, which workers can routinely be exposed to without suffering adverse health effects. The user must review his/her own circumstances and then determine what is required to establish a respiratory program. Some type of respiratory protection is recommended even for the best conditions. Actual respirator selection should be made after consultation with a competent health and safety professional. |
| Eye Protection                         | Wear safety glasses with side shields or goggles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hand Protection                        | Wear gloves to prevent direct skin contact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Other Protective Clothing or Equipment | Wear clothing designed to limit direct exposure to product or dusts associated with product. If clothing becomes contaminated, it should be laundered before wearing again. Maintain good personal hygiene. Wash hands thoroughly before eating or drinking.                                                                                                                                                                                                                                                                              |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|                     |                                       |
|---------------------|---------------------------------------|
| Appearance          | White/Gray/Brown aggregate and powder |
| Odor                | Odorless                              |
| pH value            | 6-9                                   |
| Vapor Pressure      | Not available                         |
| Vapor Density       | Not available                         |
| Boiling Point       | Not available                         |
| Melting Point       | > 1600°C                              |
| Solubility in water | Slightly (Calcium Aluminate Cement)   |
| Density             | 2000-2600 kg/m <sup>3</sup>           |
| Evaporation rate    | Not available                         |

|                        |               |
|------------------------|---------------|
| % Volatiles            | Not available |
| Flammability           | Non Flammable |
| Flash Point            | Not available |
| Flammable Limits-Lower | Not available |
| Flammable Limits-Upper | Not available |

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## 10. STABILITY AND REACTIVITY

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|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Stability       | This product is stable under normal conditions for shipping, storage and installation. Product will react with water and solidify within 1-24 hours |
| Conditions to Avoid      | None                                                                                                                                                |
| Incompatible Material    | None Hazardous Decomposition None                                                                                                                   |
| Hazardous Polymerization | None                                                                                                                                                |
| Hazardous reaction       | None                                                                                                                                                |

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## 11. TOXICOLOGICAL INFORMATION

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| Health Hazard summary | Low toxicity. Use safe work practices to reduce eye or skin contact and dust generation-inhalation.                      |
| Eye                   | Contact with dust or powder may cause irritation                                                                         |
| Skin                  | Repeated or prolonged contact may cause irritation                                                                       |
| Inhalation            | May irritate the respiratory tract on prolonged or repeat contact and may aggravate pre-existing respiratory conditions. |
| Ingestion             | Not applicable                                                                                                           |
| Carcinogenicity       | Not applicable                                                                                                           |
| Chronic Effects       | Prolonged breathing of dust may cause lung disease.                                                                      |

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## 12. ECOLOGICAL INFORMATION

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| Accidental Release | No information has been developed regarding the eco-toxicity or environmental fate of this product. |
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## 13. DISPOSAL CONSIDERATIONS

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| Waste Disposal Method | The as-manufactured refractory or dust from this material is not considered a hazardous. However, used product (and dusts generated during maintenance and tear-out operations) May be contaminated with other hazardous substances from the particular application (for example, metals). Therefore, appropriate waste analysis may be necessary to determine proper disposal. A qualified environmental professional in accordance with applicable federal, state, and local regulations should determine waste characterization and Disposal/treatment methods. |
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## 14. TRANSPORT INFORMATION

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| Transport Information | Not regulated as a hazardous material |
| U.N. Number           | Not applicable                        |

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## 15. REGULATORY INFORMATION

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Not applicable

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## 16. OTHER INFORMATION

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|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Information | The information contained in this Material Safety Data Sheet is believed to be accurate. However, SRIC makes no warranty with respect to the accuracy of the information or the suitability of the recommendations and assume no liability to any user based upon use of the product or reliance upon the information contained in this Material Safety Data Sheet. |
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