



## Safety Data sheet

Revision date: 2024.08.20

### Fine Cast

#### 1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

Product name: Fine Cast  
Product Description: Aluminosilicate refractory with calcium aluminate binder.  
Supplier Name: MT Refractories (Pty) Ltd  
Address: Unit C 61 Steyr Street, Aureus, Randfontein, 1759  
Telephone: +27 (0)67 325 5930  
Emergency: +27 (0)72 875 0191

#### 2. HAZARDS IDENTIFICATION

Hazard Classification: The product is supplied as a dry powder that can become airborne when using.  
Upon reacting with water heat will be generated when starting to set.  
The rise in temperature may cause burns when used in large quantities and castings.

Risk phrase (s): Non-hazardous materials.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%)
Aluminosilicate	92704-41-1	<55
Calcium Aluminate	65997-16-2	<35
Alumina	1344-28-1	<20
Aluminium silicate	68131-470-8	<15
Silica	69012-64-2	<15
Additives	-	<2

#### 4. FIRST AID MEASURES

Eye Contact: If in contact with eyes, thoroughly flush eyes with running clean water for at least 15 minutes. If person is wearing contact lenses, removal should be undertaken by skilled persons. Seek medical attention if irritation persists.

Skin contact: Wash areas that were in contact with the product with clean water and soap. Seek medical attention if irritation persists.

Inhalation: Move to fresh air. If coughing or other symptoms persist seek medical attention.

Ingestion: Product is not likely to be ingested but if this occurs do not induce vomiting, drink plenty of water and seek medical attention.



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### 5. FIRE FIGHTING MEASURES

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Flammability:	Non flammable.
Fire and explosion:	Incombustible and inert in fire.
Suitable Extinguishing media:	No specific requirements. Use suitable extinguishing media for surrounding combustible materials.

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### 6. ACCIDENTAL RELEASE MEASURES

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Avoid contact with water, drains and sewers as materials harden upon contact.	
Personal Precautions:	Wear personal protective equipment (clothing, respiration protection and suitable gloves) to avoid direct contact with product or dust.
Clean up measures:	Avoid dry sweeping of the product to minimize dust emissions.

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### 7. HANDLING AND STORAGE

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Safe Handling:	Wear personal protective equipment (clothing, respiration protection and suitable gloves) to avoid direct contact with product or dust. Minimise dust generation.
Safe storage:	Product should be kept in a dry location to avoid contact with moisture and water.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational exposure limits:	Not determined.
Biological limit values	Not determined.
Engineering Control Measures	Use control measures to keep airborne concentration below limits
Respiratory Protection:	This product is a proprietary mixture of unique ingredients. No established exposure limit for airborne concentrations and people working in the environment. Some type of respiratory protection is recommended even under the best conditions. Respirator selection should be made after consultation with a competent health and safety professional.
Eye Protection:	Wear goggles or safety glasses with side shields where there is a risk of contact with dust or the wet mixture.
Hand Protection:	Wear suitable gloves to avoid contact with skin.
Protective Clothing:	Protective clothing designed to limit direct exposure to product or dust associated with product.
Hygiene Measures:	Wash clothing after contamination, dispose of gloves, wash hands before eating and drinking.
Thermal Protection:	When necessary, wear appropriate thermal protective clothing.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance:	Grey powder
Odor:	Odorless
pH:	Alkaline
Vapor Pressure:	Not available
Vapor Density:	Not available
Boiling Point:	Not available
Melting Point:	>1200°C
Density (wet):	2160 kg/m <sup>3</sup>
Evaporation rate:	Not available
% Volatiles:	Not available
Flammability:	Non Flammable
Flash Point:	Not available
Flammable Limits – Lower and Upper:	Not available

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### 10. STABILITY AND REACTIVITY

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Chemical Stability:	Product is stable under normal conditions for shipping, storage and installation. The reaction with water is exothermic and the product will heat up after approximately 1-3 hours and solidifies within 1-24 hours.
Conditions to avoid:	Keep dry until use.
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:	Not acutely toxic. Reduce eye and skin contact and dust 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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No information regarding the eco-toxicity or environmental fate of the product

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### 13. DISPOSAL CONSIDERATIONS

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Unused products are classified as non-hazardous and inert and may be disposed according to local regulations.

The used product and any dust generated during maintenance or repairs may be contaminated with hazardous materials.

The proper disposal must be determined with waste analysis.

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### 14. TRANSPORT INFORMATION

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Not regulated as a hazardous material

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### 15. REGULATORY INFORMATION

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Not applicable

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### 16. OTHER INFORMATION

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The information provided in this document has been compiled from sources considered accurate and dependable to the best of our knowledge, but it is not guaranteed to be so. This information is for the use and evaluation of this product in respect to hazards (safety, health and environmental). It remains the responsibility of the user to determine the product suitability for a specific purpose and to adopt the necessary safety precautions. We make no warranty as to the results to be obtained in using any material. This information is no product warranty or base for legal relationship.

It is not allowed to derive liabilities and warranties from this safety data sheet against MT Refractories (Pty) Ltd.