

Safety Data sheet

Revision date: 2024.08.20

Calsicast

1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

Product name:	Calsicast
Product Description:	Lightweight aluminosilicate refractory with calcium aluminate binders for creating shapes.
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 containing a small percentage of AR Glass fibres and can become airborne when using. Upon mixing 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	93924-19-7	<60
Calcium Aluminate	65997-16-2	<40
Alumina	1344-28-1	<40
Silica	69012-64-2	<10
Fibres	-	<2
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.

Safety Data sheet

Revision date: 2024.08.20

5. FIRE FIGHTING MEASURES

Flammability	Non flammable.
Fire and explosion	Incombustible and inert in fire.
Suitable Extinguishing media	No specific requirements. Material is not combustible. Use suitable extinguishing media for surrounding combustible materials.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 proper 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.

Safety Data sheet

Revision date: 2024.08.20

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White/light grey powder
Odor	Odorless
pH	Alkaline
Vapor Pressure	Not available
Vapor Density	Not available
Boiling Point	Not available
Melting Point	>900°C
Density (wet)	1100-1200 kg/m ³
Evaporation rate	Not available
% Volatiles	Not available
Flammability	Non Flammable
Flash Point	Not available
Flammable Limits – Lower and Upper	Not available

10. STABILITY AND REACTIVITY

Reactivity	Product is stable under normal conditions for shipping, storage and installation.
Chemical Stability	The reaction with water is exothermic and will heat up after approximately 1 hour depending on weather conditions 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

11. TOXICOLOGICAL INFORMATION

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.

Safety Data sheet

Revision date: 2024.08.20

12. ECOLOGICAL INFORMATION

No information regarding the eco-toxicity or environmental fate of the product

13. DISPOSAL CONSIDERATIONS

Unused products are classified as non-hazardous and inert materials 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.

14. TRANSPORT INFORMATION

Not regulated as a hazardous material

15. REGULARITY INFORMATION

Not applicable

16. OTHER INFORMATION

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.