

Safety Data sheet

Revision date: 2024.08.13

Refractory Glue

1. IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER

Product name: Refractory Glue
Product Description: A refractory adhesive for joining/bonding different refractory materials including those with very fine porosity.
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

Physical hazards: Not classified

Health hazards: H319: Serious eye damage / irritation Category 2
H315: Skin corrosion / irritation Category 2

Hazards summary: Alkaline
Irritating to eyes and skin

Environmental hazards: Not classified

Label elements:



Signal word: Warning

Hazard statement: H319: Serious eye damage / irritation
H315: Skin corrosion / irritation

Precautionary statement

Prevention: Wash thoroughly after handling it. Wear protective gloves, clothing, eye / face protection.

Response: Product ingested: Do NOT induce vomiting, rinse mouth.
Product on skin: Take off contaminated clothing. Rinse skin
Product inhaled: Move person to fresh air and ensure comfortable breathing.
Product in eyes: Rinse eyes with water for several minutes. If needed and possible remove contact lenses. Continue rinsing.

Immediately call a doctor or medical personnel.
Wash contaminated clothing.

Storage: Store locked up. Product should be stored in a container and away from excessive heat.

Safety Data sheet

Revision date: 2024.08.13

Disposal: Dispose product/container according to local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Proportion (%)
Calcined Clay	1332-58-7	<55
Silica	7631-86-9	<20
Sodium Silicate	1344-09-8	<70
Organic Additives	-	<5

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	Remove any contaminated clothing. 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 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.
Most important symptoms/effects:	Alkaline Irritating to eyes and skin.
Indication of immediate medical attention / treatment needed:	Treat symptomatically. Skin irritation: Immediately flush with water. Remove clothing that does not affect the contaminated area while continuously flushing. Call an ambulance. Continue to flush during transportation. Keep person under observation. Some symptoms might be delayed.
	Ensure medical personnel are aware of material(s) involved.

5. FIRE FIGHTING MEASURES

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.

Safety Data sheet

Revision date: 2024.08.13

6. ACCIDENTAL RELEASE MEASURES

Slippery when spilt and wet. Avoid accidents and immediately clean up area. Do not flush spillage into drain and prevent material from entering natural water systems.

Personal Precautions	Wear personal protective equipment (clothing, safety glasses, respiration protection and suitable gloves) to avoid direct contact with product or dust generated from dry or fired product.
Clean up measures	Clean up using an absorbent such as soil, sand, vermiculite or an inert material. Collect material and seal in labelled containers. Was down area with water, preferably hot water, to keep it from solidifying.

7. HANDLING AND STORAGE

Safe Handling	Wear personal protective equipment (clothing, safety glasses, respiration protection and suitable gloves) to avoid direct contact with product or dust.
Safe storage	Minimise dust generation with hardened and fired material. Product should be kept in a closed well-labelled container in a ventilated area. Material will harden when exposed to air and heat.

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 material.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown-red paste
Odor	Odorless
pH	Alkaline
Vapor Pressure	Not available



Safety Data sheet

Revision date: 2024.08.13

Vapor Density	Not available
Boiling Point	Not available
Melting Point	Tested to 1250°C
Density (wet)	~1.82 g/cm 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 and storage and installation.
Chemical Stability	Exposure to air and heat will cause the material to solidify.
Conditions to avoid	Keep in closed / sealed container until use.
Incompatible Material	Sodium silicate solutions are strongly alkaline, therefore avoid contact with aluminium, copper, brass, bronze, zinc and tin.
Hazardous Decomposition	None
Hazardous Polymerization	None
Hazardous Reaction	None

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Not acutely toxic. Reduce eye and skin contact and product related dust inhalation. Dried material can have sharp edges.
Eye	Contact with material 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	Not applicable.

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 may be contaminated with hazardous materials.

The proper disposal must be determined with waste analysis.

Safety Data sheet

Revision date: 2024.08.13

14. TRANSPORT INFORMATION

Not regulated as a hazardous material

15. REGULATORY 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.