Calcined Bauxite 75% Al_2O_3

Material Safety Data Sheet

Section 1. Identification of the Substance and Company

Item	Detail
Product name	Calcined Bauxite 75% Al_2O_3
Chemical description	Calcined bauxite (high-alumina refractory raw material)
Recommended use	Raw material for refractories, castables, ramming mass, foundry and casting applications
Supplier	Ochnology Solution Private Limited, B-153, Sector-4, Defence Colony, Dehradun 248001, India
Telephone / email	+91 9286823642 / 43 | info@ochnology.com
Emergency contact	+91 9286823642

Section 2. Hazards Identification

Item	Detail
GHS classification	Not classified as hazardous under GHS
Signal word	None
Hazard statements	None
Other hazards	Dust may cause mechanical irritation of the eyes, skin and respiratory tract. May contain small amounts of crystalline silica; prolonged inhalation of respirable dust may cause lung injury. Avoid dust formation.

Section 3. Composition and Information on Ingredients

Component	CAS number	Typical range (%)
Aluminium oxide	1344-28-1	75 min
Iron(III) oxide	1309-37-1	4.0 max
Titanium dioxide	13463-67-7	3.5 max
Silicon dioxide and others	7631-86-9	Balance

Section 4. First Aid Measures

Item	Detail
Inhalation	Move the person to fresh air. Get medical attention if coughing or breathing difficulty persists.
Skin contact	Wash with soap and water. Get medical attention if irritation persists.
Eye contact	Rinse with plenty of water for at least 15 minutes. Remove contact lenses if easy to do. Get medical attention if irritation persists.
Ingestion	Rinse mouth with water. Get medical attention if symptoms occur.

Section 5. Fire-Fighting Measures

Item	Detail
Suitable extinguishing media	Not combustible. Use media suitable for the surrounding fire.
Specific hazards	None; the product does not burn or support combustion.
Protective equipment	Self-contained breathing apparatus if dust or fumes are present

Section 6. Accidental Release Measures

Item	Detail
Personal precautions	Avoid dust. Wear dust mask, goggles and gloves.
Environmental precautions	No special precautions. Prevent large quantities from entering drains.
Clean-up	Sweep or vacuum into closed containers without creating dust. Dispose of as non-hazardous solid waste.

Section 7. Handling and Storage

Item	Detail
Handling	Minimise dust formation. Use in a ventilated area or with local exhaust. Avoid contact with eyes and prolonged breathing of dust.
Storage	Store dry in a covered area, away from moisture and in closed packing.
Packing	As stated on the Technical Data Sheet

Section 8. Exposure Controls and Personal Protection

Item	Detail
Exposure limit (particulates not otherwise specified, ACGIH)	Inhalable 10 mg/m³; respirable 3 mg/m³
Engineering controls	Local exhaust ventilation or dust suppression where dust is generated
Eye and face	Safety goggles
Skin and hands	Gloves and protective clothing
Respiratory	Dust mask or respirator (FFP2 or higher) where dust levels are high

Section 9. Physical and Chemical Properties

Item	Detail
Appearance	Grey to greyish-brown granular material
Odour	Odourless
Solubility in water	Insoluble
Specific gravity (true density)	About 3.4–3.6
Melting point	Above 1700 °C
Flash point	Not applicable (not combustible)
pH	Not applicable

Section 10. Stability and Reactivity

Item	Detail
Stability	Stable under normal conditions
Conditions to avoid	Dust generation
Incompatible materials	Hydrofluoric acid
Hazardous decomposition	None under normal conditions

Section 11. Toxicological Information

Item	Detail
Acute toxicity	Low acute toxicity.
Irritation	Dust may irritate the eyes, skin and upper respiratory tract.
Chronic	Prolonged inhalation of respirable dust containing crystalline silica may cause silicosis. No carcinogenic classification for the product as supplied.

Section 12. Ecological Information

Item	Detail
Ecotoxicity	Not expected to be harmful to the environment; insoluble inorganic solid.
Persistence	Inorganic; not biodegradable.
Bioaccumulation	No bioaccumulation expected.

Section 13. Disposal Considerations

Item	Detail
Waste disposal	Dispose of in accordance with local, state and national regulations. Not classified as hazardous waste.

Section 14. Transport Information

Item	Detail
UN number	Not regulated
Transport hazard class	Not classified as dangerous goods
Marine pollutant	No

Section 15. Regulatory Information

Item	Detail
Classification	Not classified as hazardous under GHS.
Labelling	No hazard labelling required

Section 16. Other Information

Item	Detail
Issue date	03 November 2026
Prepared by	Ochnology Solution Private Limited