1. Identification

Product identifier: DRY GROUND CLAY

Other means of identification: FDS-04

Recommended use of the chemical: Refractories, electrical ceramics and ceramic tiles.

Restrictions on use of the chemical: This product should only be used for the indicated uses.

Supplier: ALPHALUM LTDA

Address: Avenida João Pinheiro, 3665, Sala Alopar

Address line 2: Poços de Caldas/MG - Brazil ZIP Code: 37.701-386

Contact phone: +55 (19) 99215-6187

Emergency phone: +55 (19) 99215-6187

2. Hazard identification

Classification of the substance or mixture: Not classified as hazardous according to ABNT NBR 14725-2:2023.

The following statements summarize the health effects normally observed in cases of overexposure. Each user's specific situation must be assessed by a qualified professional. Further information is provided in section 11.

Causes mild eye irritation because it is a particulate material.

May cause mild irritation of the skin and upper respiratory tract.

Ingestion may cause mild irritation.

Other information: The product does not contain crystalline silica in its composition.

3. Composition/information on ingredients

Product type: Substance

Chemical identity: Kaolin

Synonym: Clay; aluminum silicate

CAS No.: 1332-58-7

Composition comments: This substance does not contain impurities that could contribute to the hazard.

4. First-aid measures

Eye contact: Rinse the eyes with plenty of water or saline solution for at least 15 minutes. Seek medical attention if symptoms appear. Take this SDS with you.

Skin contact: Wash the skin immediately with plenty of water for at least 15 minutes. Seek medical attention if symptoms occur. Take this SDS with you.

Inhalation: Move the victim to a ventilated area and keep them in a comfortable position. Seek medical attention if symptoms appear. Take this SDS with you.

Ingestion: If the product is swallowed, rinse the mouth with water. Do not induce vomiting. If you feel unwell, contact a physician. Take this SDS with you.

5. Firefighting measures

Flammable/combustible properties: The product is not combustible.

Suitable extinguishing media: Fire involving this product is unlikely, but if it occurs it can be controlled with all types of extinguishers.

Unsuitable extinguishing media: Do not use a direct water jet.

Hazardous decomposition products: There are no hazardous products derived from decomposition.

Protective measures for firefighters: Use positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water spray.

6. Accidental release measures

Personal precautions: Keep unauthorized persons away. Wear protective equipment. Do not smoke. Do not touch damaged containers or spilled material without suitable protective clothing. Avoid exposure to the product.

Environmental precautions: Prevent the product from entering water and sewage systems.

Spill or leak procedure: Sweep up, collect and place the product in a suitable container for disposal. Use shovels, brooms, buckets or other bulk material handling equipment to place it in the containers.

Evacuation procedure: Not necessary.

Cleaning methods: Collect the product with a shovel. Gather the product and place it in a labeled container.

Reference to other sections: See section 13 for waste disposal.

7. Handling and storage

Safe handling: Avoid contact with eyes and skin. Use ventilated areas. Avoid dust formation during handling. Use the indicated PPE.

Suitable storage and precautions: Keep in the original, tightly closed packaging in a dry, cool and well-ventilated place. Store in a dry, covered place. Keep the material dry and free from contact with water or any other type of liquid or fluid.

8. Exposure controls/personal protection

Control parameters: This product has no occupational exposure limit under NR 15 or by the Association Advancing Occupational and Environmental Health (ACGIH).

Personal protective measures

- **Eye/face protection:** Panoramic or wide-vision safety glasses with side protection, tested and approved according to current standards.
- **Respiratory protection:** Use a respirator with a particulate filter (P2 or P3).
- **Hand protection:** Handle with suitable gloves. Use nitrile rubber, PVC, rubber or neoprene gloves.
- **Hygiene measures:** Change clothing that has been in contact with the product; wash hands and face with soap.

9. Physical and chemical properties

Appearance / Form: Solid, powder.

Odor: Odorless

Odor threshold: No data available.

Color: Gray or Beige.

Flash point: Not applicable.

Evaporation rate: Not applicable.

Boiling point: Not applicable.

Melting point: Not available.

Decomposition temperature: Not available.

Flammability (solid, gas): Not flammable.

Auto-ignition temperature: Not applicable.

Vapor pressure: Not applicable.

Vapor density: Not applicable.

Solubility (Water): insoluble in water.

pH: Neutral.

Loose Bulk Density: 0.40 – 1.20 g/cm^3.

Viscosity: Not applicable.

Oxidizing properties: Not applicable.

Partition coefficient (n-octanol): Not available.

10. Stability and reactivity

Chemical stability: The product is stable under normal conditions of use, storage and transport.

Precautions: None known.

Incompatible materials: None known.

Hazardous decomposition products: No decomposition into hazardous products occurs.

Possibility of hazardous reactions: None known.

Hazardous polymerization: None known.

11. Toxicological information

Health effects of the ingredients: Product with low health risk by inhalation. It is generally considered biologically inert.

Health effects of additional compounds that may form: No new or additional components are expected to form during processing.

Acute toxicity: The product is not classified for this hazard according to GHS criteria.

Aspiration toxicity: The product is not classified for this hazard according to GHS criteria.

Corrosivity: Non-corrosive product.

Eye irritation: The product is not classified for this hazard according to GHS criteria.

Skin irritation: May cause mild irritation on contact with the skin.

Respiratory or skin sensitization: The product is not classified for this hazard according to GHS criteria.

Chronic toxicity: The product is not classified for this hazard according to GHS criteria.

Carcinogenicity: The product is not classified for this hazard according to GHS criteria.

Mutagenicity: The product is not classified for this hazard according to GHS criteria.

Effects on reproduction and lactation: The product is not classified for this hazard according to GHS criteria.

Signs and symptoms of exposure: Nausea, vomiting, constipation.

12. Ecological information

Ecotoxicity: The product is not classified for this hazard according to GHS criteria.

Persistence and degradability: The product is persistent and not readily degradable.

Bioaccumulation: Not bioaccumulative.

Mobility in soil: Solid product with low mobility.

PBT and vPvB assessment: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Recommended disposal methods

- **Product:** Keep product residues in their original, properly closed packaging. Disposal must be carried out as established for the product. Consult federal, state and municipal legislation, including Law No. 12,305 of 02/08/2010.
- **Packaging:** Do not reuse empty packaging. It may contain product residues and must be disposed of in accordance with Law No. 12,305 of 02/08/2010 or state/municipal legislation.
- **Other recommendations:** Disposal recommendations are based on the type and form in which the material is supplied. Disposal must comply with current applicable laws and regulations and with the characteristics of the material at the time of disposal. Collect and reuse or recycle, if possible.

14. Transport information

National and International Regulations

Land: This product is not classified as hazardous for land transport. Land regulations established by the National Land Transport Agency (ANTT) – Resolution No. 5998 and its amendments, Decree No. 98,973/1990.

Mercosur Regulation by Decrees No. 1797/1996 and 2866/1998.

Waterway: This product is not classified as hazardous for waterway transport. Waterway regulations established by the National Waterway Transport Agency (ANTAQ) – Resolution No. 2239.

Directorate of Ports and Coasts of the Brazilian Navy – Normam-05/DPC.

International Maritime Dangerous Goods – Code (IMDG Code).

Air: This product is not classified as hazardous for air transport. Air regulations established by the National Civil Aviation Agency (ANAC). Transport of dangerous goods in civil aircraft – RBAC – No. 175 – Amendment No. 03. Supplementary Instruction – IS No. 175-001 Revision I.

International Civil Aviation Organization – Technical Instructions (ICAO-TI), International Air Transport Association – Dangerous Goods Regulations (IATA-DGR).

Additional regulations: Not available.

15. Regulatory information

This Safety Data Sheet (SDS) was prepared in accordance with ABNT NBR 14725-2/2023.

The inventory name by country or region is listed below.

Resolution No. 5998 and its amendments (National Land Transport Agency) Federal Decree No. 2,657 of the Ministry of Labor and Employment

Regulatory Standard 26 – Decree 229 of the Ministry of Labor and Employment

ABNT NBR 14725-2:2023

Regulatory Standard 15 of the Ministry of Labor and Employment.

16. Other information

This SDS was prepared based on current knowledge of the chemical product and provides information on protection, safety, health and the environment. The data and information transcribed herein are merely complementary in nature, provided in good faith and based on our knowledge of the product at the date of publication of this SDS. No warranty is given as to the result of applying these data and information, and users are not exempt from their responsibilities at any stage of handling the product. The provisions of existing government regulations prevail over the data contained herein.

SDS history: Created on 01/12/2025.

Prepared by: Alphalum technical manager.

Other information: Not applicable.