

RUTA de la CERA, S.L.
B66957648
VELAZQUEZ 9
08140 CALDES DE MONTBUI
BARCELONA
+34 93 688 31 07
info@rutadelacera.es



Material Safety Data Sheet

1. Product and company identification

Company: Ruta de la Cera, S.L.
Address: c/Velázquez, 9 - Caldes de Montbui, Barcelona
Postal Code: 08140
Emergency Number: +34 915 620 420

Product's name: Kaolin

REACH register nº: Exempted in accordance with Annex V.7.

Synonyms: Kaolin, clay, chamotte.

Trade names: Caolín Especial, Caolín Supremo, P5B, MC, M, A, TM.

Relevant identified uses of the substance or mixture and uses advised against: Raw material employed in various production processes (manufacturing of ceramics, fibre glass, adhesives, paints, tiles, etc.).

2. Hazard identification

Classification of the substance or mixture: This product does not meet the criteria for classification as hazardous, as defined by Regulation EC 1272/2008 and Directive 67/548/EC.

REACH registration no: Exempted, in accordance with Annex V.7.

Classification EU (67/548/EEC): No classification

Regulation EC 1272/2008: No classification. This product contains less than 1% respirable quartz.

Label elements: None

Other hazards: This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

3. Composition/Information on ingredients

Substance: Kaolin

Chemical nature: hydrated alumina silicate

Empirical formula: $\text{Si}_2\text{O}_5(\text{OH})_4 \text{Al}_4$

Structural formula: $(\text{Si}_4\text{O}_{10})(\text{OH})_8 \text{Al}_4$

CAS: 1332-58-7

EINECS: 310-194-1

Impurities: This product contains less than 1% respirable quartz and is therefore not classified.

4. First aid measures

Description of first aid measures

Eye contact: Rinse with copious quantities of water and seek medical attention if irritation persists. Do not rub eyes.

Ingestion: No first aid measures are required.

Inhalation: No specific first aid measures are required. Movement of the exposed individual from the area to fresh air is recommended. In case of serious respiratory problems, seek medical attention.

Skin contact: No specific first aid measures are required. The product is inert and can be removed easily with water.

Most important symptoms and effects, both acute and delayed: No acute or delayed symptoms and effects are observed.

Indication of any immediate medical attention and special treatment needed: No specific first aid measures are required.



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5. Fire-fighting measures

Extinguishing media: No specific extinguishing media are needed.

Special hazards arising from the substance or mixture: Non-combustible. No hazardous thermal decomposition.

Advice for fire-fighters: No specific fire-fighting protection is required

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid airborne dust generation. Wear personal protective equipment in compliance with national legislation (personal respiratory equipment, gloves, safety glasses, etc.).

Environmental precautions: No special requirements.

Methods and material for containment and cleaning up: Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation (personal respiratory equipment, gloves, safety glasses, etc.).

Reference to other sections: See sections 8 and 13.

7. Handling and storage

Precautions for safe handling: Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Wash hands before breaks and at the end of the working day. Do not eat or drink when handling the product. Remove and wash soiled clothing.

Conditions for safe storage, including any incompatibilities: Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Store the product in a dry place in the original containers/recipients. Keep containers firmly closed. It is recommended to store the product in silos (ensure that the dust generated during transfer is contained) or bulk bags.

8. Exposure controls / Personal protection

Control parameters: Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust). For the occupational exposure limits in your country, please consult a competent occupational hygienist or the local regulatory authority.

Exposure controls:

Appropriate engineering controls. Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Individual protection measures, such as personal protective equipment:

Respiratory protection: In case of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of European and national legislation.

Hand protection: Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

Eye protection: Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.

Skin protection: No specific requirement. For hands, see above. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

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9. Physical and chemical properties

General Information

Information on basic physical and chemical properties:

Physical state: Solid

Colour: White / Whitish

Odour: Odourless

Important health, safety and environmental information:

pH: 4.5 – 8 (400 g/l of water at 20 °C)

Relative Density: 2.6 g/cm³

Grain shape: platy

Solubility in water: Negligible

Solubility in hydrofluoric acid: Soluble

Melting point: >1610 °C

10. Stability and reactivity

Chemically stable with no particular incompatibility.

Possibility of hazardous reactions: no dangerous reactions

Conditions to avoid: irrelevant

11. Toxicological information

Information on toxicological effects:

Skin irritation: Non-irritant

Eye irritation: Non-irritant

Acute oral toxicity: Non-toxic

Acute dermal toxicity: Non-toxic

Chronic effects: Prolonged and/or massive exposure to respirable quartz-containing dust may cause mucosal irritation and pulmonary damage. Symptoms include breathing difficulties and reduced lung function. Dust inhalation may cause irritation of the nose, throat and respiratory tract. In 1997, the IARC (International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France). In June 2003, the SCOEL (Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003).

So, there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see section 16 below).

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12. Ecological Information

No specific adverse effects known.

Mobility: Insignificant/Negligible

Persistence: Not relevant

Bio accumulative potential: Not relevant (some organisms accumulate $\text{Si}(\text{OH})_4$).

Toxicity: Not relevant

13. Disposal considerations

Waste treatment methods: Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations. This material is not classified as hazardous waste, in accordance with Decisions 2000/532/EC and 2001/118/EC.

Packaging: Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations.

14. Transport information

UN number: Not relevant

UN proper shipping name: Not relevant

Transport hazard classes:

ADR: Not classified

IMDG: Not classified

ICAO/IATA: Not classified

RID: Not classified

Packing group: Not relevant

Environmental hazards: Not relevant

Special precautions for user: No special precautions are necessary in accordance with regulations on the transport of dangerous goods. Road transport by lorry is the most common mode of transport used for this product. When transporting packaged material (sacks, Big Bags), it is recommended to cover the lorry body with a tarpaulin or similar system in both dry and wet seasons. For material transported in bulk, road tankers should be used. Following these instructions will prevent potential dust emissions on public highways, which could constitute a hazard and/or endanger road safety.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification according to 67/548/EC: Not classified

Classification according to EC 1272/2008: Not classified

Chemical safety assessment: Exempted from REACH registration in accordance with Annex V.7.



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16. Other information

Third party materials: This information refers solely to the material specified and is not valid if this material is used in combination with other materials or if it is used for purposes other than those indicated, unless otherwise stated explicitly in the text.

Liability: The information contained in this Safety Data Sheet is the most accurate available to RUTA de la CERA, S.L. on the date of publication. However, no guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and accuracy of this information for his own particular use.

Training: Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.