Safety Data Sheet
Kaolin Clay

SECTION 1: Identification

1.1 Product identifier
- Product name: Kaolin Clay
- Product number: clay-9
- Brand: Bulk Apothecary

1.4 Supplier’s details
- Name: Bulk Apothecary
- Address: 115 Lena Dr
  Aurora OH 44202
  United States
- Telephone: 1-888-728-7612
- Email: sales@bulkapothecary.com

1.5 Emergency phone number(s)
- Domestic: 1-800-633-8253
- International: 801-629-0667

SECTION 2: Hazard identification

General hazard statement
Not Hazardous.

2.1 Classification of the substance or mixture
GHS classification in accordance with: OSHA (29 CFR 1910.1200)
Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements
Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification
Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients
3.2 Mixtures

Components

1. Kaolin, Total dust
Concentration 85 - 93 % (weight)
CAS no. 1332-58-7

2. Silica, crystalline
Concentration 7 - 15 % (weight)
EC no. 238-878-4
CAS no. 14808-60-7
- Carcinogenicity, Cat. 1A
- Specific target organ toxicity (repeated exposure), Cat. 1

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled
First aid is not generally required. If irritation develops from breathing dust, move the person from the overexposure and seek medical attention if needed.

In case of skin contact
First aid is not required.

If swallowed
First aid is not required.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical
Product is not flammable, combustible or explosive.

5.3 Special protective actions for fire-fighters
None required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing and respiratory protection (see Section 8). Do not generate airborne dust during clean-up.

6.2 Environmental precautions
No specific precautions. Report releases to regulatory authorities if required by local, state and federal regulations.

6.3 Methods and materials for containment and cleaning up
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Do not dry sweep. Do not use compressed air to clean spilled product. Use water spraying/flushing or ventilated or HEPA filtered vacuum cleaning system, or wet before sweeping. Dispose of in closed containers.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Do not generate dust. Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Respirable crystalline silica dust may be in the air without a visible dust cloud. Use adequate exhaust ventilation and dust collection to reduce dust and respirable crystalline silica dust levels to below the permissible exposure limit (“PEL”) or other applicable limit (if lower than the PEL). Maintain and test ventilation and dust collection equipment. Use all available work practices to control dust exposures, such as water sprays. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Keep airborne dust concentrations below permissible exposure or other applicable limits. Where necessary to reduce exposures below the PEL or other applicable limit (if lower than the PEL), wear a respirator approved for silica containing dust when using, handling, storing or disposing of this product or bag. See Section 8, for further information on respirators. Do not alter the respirator. Do not wear a tight-fitting respirator with facial hair such as a beard or mustache that prevents a good face to face piece seal between the respirator and face. Maintain, clean, and fit test respirators in accordance with applicable standards. Wash or vacuum clothing that has become dusty. Participate in training, exposure monitoring, and health surveillance programs to monitor any potential adverse health effects that may be caused by breathing respirable crystalline silica.

7.2 Conditions for safe storage, including any incompatibilities
Use dust collection to trap dust produced during loading and unloading. Keep containers closed and store bags to avoid accidental tearing, breaking, or bursting.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Kaolin, Total dust (CAS: 1332-58-7)
PEL (Inhalation): 15 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
REL (Inhalation): 10 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

2. Kaolin, Respirable fraction (CAS: 1332-58-7)
PEL (Inhalation): 5 mg/m³ (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): 2 mg/m³, (no asbestos, < 1% crystalline silica) (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
REL (Inhalation): 5 mg/m³ (NIOSH)
OSHA Annotated Table Z-1, www.osha.gov

PEL-TWA (Inhalation): 10 mg/m³ / (% Silica + 2) respirable 30 mg/m³ / (% Silica + 2) total (OSHA)
OSHA Annotated Table Z-1, www.osha.gov
PEL (Inhalation): 0.05 mg/m³ (Cal/OSHA)
OSHA Annotated Table Z-1, www.osha.gov
REL (Inhalation): Ca 0.05 mg/m³ (NIOSH)
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OSHA Annotated Table Z-1, www.osha.gov
TLV® (Inhalation): 0.025 mg/m³ (resp.) for α-quartz and cristobalite (ACGIH)

8.2 Appropriate engineering controls
Use adequate general or local exhaust ventilation to maintain concentrations in the workplace below the applicable exposure limits listed above.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses with side shields or goggles recommended if eye contact is anticipated.

Skin protection
Maintain good industrial hygiene. Protection recommended for workers suffering from dermatitis or sensitive skin.

Respiratory protection
If it is not possible to reduce airborne exposure levels to below the OSHA PEL or other applicable limit wear respiratory protection.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/form (physical state, color, etc.)</td>
<td>light pink to white powder</td>
</tr>
<tr>
<td>Odor</td>
<td>oderless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>3155-3245°F/1735- 1790°C</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>: Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability limits</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>2.61g/cc</td>
</tr>
<tr>
<td>Relative density</td>
<td></td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Insoluble in water, soluble in hydrochloric acid and perchloric acid</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1 Reactivity
Not reactive under normal conditions of use.

10.2 Chemical stability
Stable
10.3 Possibility of hazardous reactions
Contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride and oxygen difluoride, may cause fires.

10.4 Conditions to avoid
Avoid generation of dust in handling and use.

10.5 Incompatible materials
Powerful oxidizers such as fluorine, chlorine trifluoride, and oxygen difluoride and hydrofluoric acid.

10.6 Hazardous decomposition products
Silica will dissolve in hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride.

SECTION 11: Toxicological information

Information on toxicological effects

Skin corrosion/irritation
May dry the skin.

Serious eye damage/irritation
Particulates may cause abrasive injury.

Respiratory or skin sensitization
Inhalation of dust may cause respiratory tract irritation. Symptoms of exposure may include cough, sore throat, nasal congestion, sneezing, wheezing and shortness of breath.

Carcinogenicity
Prolonged inhalation of respirable crystalline silica may cause lung disease, silicosis, lung cancer and other effects as indicated below.

SECTION 12: Ecological information

Toxicity
Kaolin clay and crystalline silica are not known to be ecotoxic.

Persistence and degradability
Kaolin clay is not degradable.

Bioaccumulative potential
Kaolin clay is not bioaccumulative.

Mobility in soil
Kaolin clay is not mobile in soil.

SECTION 13: Disposal considerations

Disposal of the product
Discard any product, residue, disposable container or liner in full compliance with national regulations.
SECTION 14: Transport information

DOT (US)
Not regulated

IMDG
Not regulated

IATA
Not regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

New Jersey Right To Know Components
Common name: KAOLIN
CAS number: 1332-58-7

Pennsylvania Right To Know Components
Chemical name: Kaolin
CAS number: 1332-58-7

New Jersey Right To Know Components
Common name: SILICA, QUARTZ
CAS number: 14808-60-7

Massachusetts Right To Know Components
Chemical name: Quartz
CAS number: 14808-60-7

California Prop. 65 Components
WARNING! This product contains a chemical known to the State of California to cause cancer.
Quartz
CAS-No. 14808-60-7

Pennsylvania Right To Know Components
Chemical name: Quartz
CAS number: 14808-60-7

California Prop. 65 components
Chemical name: Silica, crystalline
CAS number: 14808-60-7
10/01/1988 - cancer

15.2 Chemical Safety Assessment
Not regulated

SECTION 16: Other information

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16.1 Further information/disclaimer

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