

## KAOLIN

### Material Safety Data Sheet (MSDS)

#### 1. PRODUCT IDENTIFICATION

Product Name: kaolin  
INCI Name: kaolin, anhydrous aluminum silicate  
Synonyms: china clay, nacrite, kaolinite, metakaolin  
CAS Number: 1332-58-7  
EINECS Number: 310-127-6  
Origin: natural

Eye Contact: may cause irritation; if symptoms develop seek medical attention.  
Skin Contact: no irritation is likely to occur  
Ingestion: no evidence from adverse effects from available information.

#### 2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: 1700°C (3092°F)  
Boiling Point: not determined  
Vapor Density, Air= 1: not determined  
Particle Size: 0.78 - 3.8 µm  
Specific Gravity: 2.6 g/ml at 25°C  
Solubility in water: insoluble  
pH Value: 5 (5% solution)  
Appearance & Odor: off-white, fine powder, no odor

#### 8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 20 minutes. Seek medical attention if symptoms persist.  
Skin: Wash exposed areas of the skin with soap and water.  
Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.  
Ingestion: Material will pass through body in normal manner. Consult medical personnel if symptoms develop.

#### 3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions  
Incompatibility: no data available  
Hazardous Decomposition: none known  
Hazardous Polymerisation: will not occur

#### 9. FIRE FIGHTING MEASURES

Flammability: not flammable and will not support combustion  
Extinguishing Media: water spray, foam, carbon dioxide  
Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.  
Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

#### 10. TOXICOLOGICAL INFORMATION

Acute LD50: not data available  
Chronic Toxicity: an epidemiological study performed on workers in the kaolin processing industry showed no increased incidence of lung diseases compared to general population. However, prolonged inhalation of high concentrations of kaolin dust could cause deposits in the lung. Kaolin contains 2% quartz which may cause cancer, silicosis or other fibrotic lung disease upon prolonged inhalation.

#### 5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

#### 11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Compliance with applicable laws are the responsibility solely of the generator.

#### 6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: Where exposure likely exceeds acceptable criteria, use NIOSH/OSHA-approved respiratory equipment.  
Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.  
Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

#### 12. TRANSPORT INFORMATION

General: not regarded as hazardous material  
DOT Shipping Name: Refer to corresponding hazard class  
ADR/ R I C Code: Refer to corresponding hazard class  
Sea Transport I M D G Code: Refer to corresponding hazard class  
Air Transport I A T A: Refer to corresponding hazard class

#### 7. HAZARDS IDENTIFICATION

General: Avoid breathing dust.  
Inhalation: Primary route of entry. No data available on acute effects but irritation is unlikely to occur.

#### 13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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