

# China Clay

HS/CHCL/01  
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First Edition



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<p><b>2. Composition/Information on Components</b></p>	<p><b>Natural dry China Clay</b> China Clay (also known as Kaolin) is a natural material that consists of variable proportions of various minerals, including kaolinite, mica and quartz. IMERYS China Clay products consist primarily of kaolinite with minor amounts of other natural minerals.</p> <p><b>Kaolin</b> CAS number: 1332 - 58 - 7 EINECS number: 310 - 127 - 6 OES (Occupational Exposure Standard) for respirable kaolin dust - 2.0 mg/m<sup>3</sup> in a TWA 8hr reference period.</p> <p>IMERYS China Clay products contain less than 1wt% quartz in the respirable dust fraction.</p> <p><b>Quartz</b> CAS number: 14808 - 60 - 7 EINECS number: 238 - 878 - 4 MEL (Maximum Exposure Limit) for respirable crystalline silica dust - 0.3 mg/m<sup>3</sup> in a TWA 8hr reference period.</p> <p><b>Predispersed dry China Clay</b> Predispersed dry China Clay contains less than 1wt% of a proprietary dispersant. The dispersant is classified as non - hazardous and has no specified exposure limits.</p> <p><b>Slurry China Clay</b> China Clay Slurry products consist of china clay in an aqueous suspension together with a proprietary dispersant (less than 1wt%) and a proprietary biocide (less than 0.1wt%). The solids content of the slurry is in the range 65 to 80 wt%.</p> <p>The biocide is a multi-component liquid that may be classified as Harmful and /or Corrosive and has no specified exposure limits.</p>
<p><b>3. Hazard Information</b></p>	<p>China Clay is of low acute toxicity. The presence of dispersant and biocide at the specified levels does not compromise this classification.</p> <p>Long term exposure to any mineral dust could cause damage to the respiratory system.</p> <p>Wet China Clay spillage can constitute a slipping hazard.</p>
<p><b>4. First Aid Measures</b></p> <p>4.1 Inhalation of Dust</p> <p>4.2 Skin Contact</p> <p>4.3 Eye Contact</p> <p>4.4 Ingestion</p>	<p>Remove to fresh air. If any symptoms develop seek medical aid.</p> <p>Wash with soap and water.</p> <p>Flush with clean water.</p> <p>Rinse mouth out with water.</p>
<p><b>5. Fire Fighting Measures</b></p>	<p>Non flammable – no special precautions necessary</p>
<p><b>6. Accidental Release Measures</b></p>	<p>Collect dry powder using a vacuum cleaner or other means where dust is not generated.</p> <p>Mix slurry with dry, inert, absorbent solid and collect for disposal. Do not discharge slurry to a water course.</p>
<p><b>7. Handling and Storage</b></p> <p>7.1 Handling</p> <p>7.2 Storage</p>	<p>Appropriate controls should be used to avoid generating dust when handling dry powders. No special precautions are indicated when handling slurries.</p> <p>Powders should be stored in a dry covered area, slurries should be stored in covered containers.</p>

<b>8. Exposure Control/Personal Protection</b>	
8.1 Respiratory Protection	Use appropriate engineering controls to avoid dust generation when handling powders. Ensure that all occupational exposure standards are observed.
8.2 Skin Protection	Substance may have a drying effect on the skin. Maintain good standards of industrial hygiene.
8.3 Eye Protection	Eyewash should be available, but eye protection is unlikely to be required.
<b>9. Physical and Chemical Properties</b>	
9.1 Appearance	White powder or white suspension
9.2 Odour	None
9.3 pH	Slurry 9.0 – 10.0
9.4 Boiling point	Slurry 100°C
9.5 Explosive Properties	None
9.6 Oxidising Properties	None
9.7 Relative Density	Slurry 1.5 – 2.0    Dry powder – 2.6
<b>10. Stability and Reactivity</b>	Stable and non reactive.
<b>11. Toxicological Information</b>	
11.1 Inhalation of Dust	China clay has no determined acute toxic effects. Exposures to china clay dust should be kept to below the occupation exposure standard, at which level no effects on chest health would be expected. Studies have not indicated any significant sensitisation, carcinogenic, mutagenic or teratogenic effects.
11.2 Skin Contact	No determined toxicological effects.
11.3 Ingestion	No determined toxicological effects.
<b>12. Ecological Information</b>	
12.1 Environmental Statement	China clay is persistent and non-biodegradable but is unlikely to have any long term effect on the environment.
12.2 Mobility	Solid. Involatile. Insoluble in water.
12.3 Degradability	Non-biodegradable. Persistent.
12.4 Accumulation	No bio-accumulation or bio-magnification identified.
12.5 Ecotoxicity	China clay is non toxic to fish, daphnia and aquatic algae, soil organisms and plants/animals. The presence of biocide in slurry products indicates the possibility of ecotoxic effects although levels of dilution suggest that these effects will be limited.
<b>13. Disposal Considerations</b>	China clays can be disposed of as non toxic/inactive materials in approved landfill sites in accordance with local regulations.
<b>14. Transport Information</b>	China Clays are not classified as dangerous for transportation under EU or UK national regulations. No special precautions are required.

## 15. Regulatory Information

### 15.1 Classification

China clay is not classified as dangerous to supply under EU or UK national regulations.

### 15.2 Occupational Exposure Standards

2 mg/m<sup>3</sup> respirable dust in an 8hr reference Standard period.

### 15.3 Legislative Requirements

The following are relevant measures under UK legislation but the user's attention is drawn to the possible existence of additional local provisions.

## 16. Other Information

### 16.1 Training Advice

Workers should be trained to handle products without generating dust or spillages.

### 16.2 Bibliography

- 1) Carriage of Dangerous Goods (Classification, Packaging and Labelling) Regulations
- 2) Chemicals (Hazard Information and Packaging for Supply) Regulations
- 3) Control of Substances Hazardous to Health Regulations
- 4) Dust: General Principles of Protection (EH44)
- 5) Environmental Hygiene Guidance (EH40)