SAFETY DATA SHEET

CHINA CLAY

1 IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Identification of the Substance: Processing Aid
Company Identification: MURPHY & SON LTD.
ALPINE STREET
OLD BASFORD
NOTTINGHAM
NG6 0HQ
ENGLAND
TEL: + 44 (0)115 978 5494
FAX: + 44 (0)115 942 4431
Emergency Contact
TEL: + 44 (0)1332 830736

Synonyms: Kaolin
CHICLA

2 COMPOSITION/INFORMATION ON SUBSTANCE

Chemical Composition: China clays are refined from naturally occurring materials and consist mainly of kaolinite with small quantities of mica and feldspar and a trace of quartz (respirable crystalline silica content is less than 0.5%)

CAS No.: 1332 - 58 - 7 (Kaolin)
14808 - 60 - 7 (Quartz)
Classification: Not classified
Risk Phrases: None

3 HAZARD IDENTIFICATION

Eye contact: Causes minor irritation
Skin contact: Could cause dryness on prolonged contact
Inhalation: Dust may cause minor irritation. Long term exposure to any respirable mineral dust may cause respiratory problems
Ingestion: Not harmful if swallowed in small quantities
Other Information:

4 FIRST AID MEASURES

Eye contact: Flush eyes with copious quantities of water for at least 15 minutes. OBTAIN MEDICAL ATTENTION
Skin contact: Wash affected area with copious quantities of water for at least 15 minutes. OBTAIN MEDICAL ATTENTION if irritation persists
Inhalation: Remove from exposure to dust. In severe cases OBTAIN MEDICAL ATTENTION
Ingestion: Wash out mouth with water and give water to drink. In severe cases OBTAIN MEDICAL ATTENTION

5 FIRE FIGHTING MEASURES

This product is non-flammable
Suitable Extinguishing Media: Water, dry chemical or carbon dioxide, dependent upon surrounding fire conditions
Unsuitable Extinguishing Media: None
Special Exposure Hazards: None
Special Protective Equipment: Dependent upon other materials in the area

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear dust excluding mask
Environmental Precautions: Prevent spillages from entering drains, streams, watercourses etc. If unavoidable warn the local Water Authority immediately
Methods for Cleaning Up: Avoid creating dust. Collect by vacuum cleaning and dispose of as low hazard material. Wet China Clay on floors can be a slipping hazard
## Handling & Storage

Handling Precautions: Wear appropriate safety equipment - goggles, gloves, and dust excluding mask. Appropriate controls should be used to avoid generating dust.

Storage: Store in tightly sealed containers in a cool, dry place.

## Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Exposure Limits:</th>
<th>Occupational Exposure Standard (OES) 8 hr TWA: 2.5 mg/m³ for respirable dust (Kaolinite)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Maximum Exposure Limit (MEL) 8hr TWA: 0.3 mg/m³ (Quartz)</td>
</tr>
</tbody>
</table>

Personal Protection:
- **Respiratory Protection:** Use appropriate engineering controls to avoid dust generation. Ensure OES is observed.
- **Hand Protection:** Wear rubber or PVC gloves.
- **Eye Protection:** Wear chemical safety goggles.
- **Skin Protection:** Substance may give drying effect on the skin. Wear chemically resistant protective clothing.
- **Other Protective Measures:** An eyewash station should be nearby.

## Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to off-white powder</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>pH</td>
<td>Slurry 9.0 - 10.0</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Slurry 100°C</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Non Flammable</td>
</tr>
<tr>
<td>Autoflammability</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>None</td>
</tr>
<tr>
<td>Oxidising Properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative Density</td>
<td>2.6</td>
</tr>
<tr>
<td>Solubility</td>
<td>Very sparingly soluble in water</td>
</tr>
</tbody>
</table>

## Stability & Reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>Stable at ambient temperatures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to Avoid</td>
<td>None</td>
</tr>
<tr>
<td>Materials to Avoid</td>
<td>None</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>None known</td>
</tr>
</tbody>
</table>

## Toxico logical Information

Toxicological Data: Low acute toxicity

Effects of exposure:
- **Eye contact:** Irritation. No permanent damage expected if treated immediately.
- **Skin contact:** No determined toxicological effects.
- **Ingestion:** No determined toxicological effects.
- **Inhalation:** Exposure should be kept below the OES, at which level no effects on chest health would be expected.

Carcinogenicity: This material is not considered to be a carcinogen.

Mutagenicity: This material is not considered to be a mutagen.

Reproductive Effects: None identified.

## Ecological Information

Environmental Effect: China clay is persistent and non-biodegradable but is unlikely to have any long term effect on the environment.

Ecotoxicity Value: China clay is non-toxic to fish, daphnia and aquatic algae, soil organisms and plants/animals.

Persistance & Degradability: Non-biodegradable. Persistent.

Bioaccumulative Potential: No bio-accumulation or bio-magnification identified.
13 DISPOSAL CONSIDERATIONS

Disposal of Product: Vacuum up and dispose of as low hazard waste. Minor spillages may be washed to drain with plenty of water.
Disposal of Packaging: In accordance with local regulations.
National or Regional Legislation: Dispose of in accordance with Part 2 of the Environmental Protection Act, 1990. Consult your Local Waste Regulatory Authority if in any doubt.

14 TRANSPORT INFORMATION

UN No.: Not applicable
Classification: Not classified
Packing Group: Not applicable
Transport Hazard Symbol: Not applicable

15 REGULATORY INFORMATION

Classification: Not classified
Hazard Pictogram: None
Risk Phrases: None
Safety Phrases: S22 Do not breathe dust
S2 Keep out of the reach of children

National Legislation:
The Control of Substances Hazardous to Health Regulations 1999
EH40 Occupational Exposure Limits
Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regulations 1996 (CHIP 96) Amended 1998
Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations 1996
Carriage of Dangerous Goods by Road Regulations 1996

16 OTHER INFORMATION

Recommended Uses: Customers should ensure that the product is entirely suitable for their own purpose
Further Information: Advice and literature on the properties, storage and handling of this product are available on request

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