



# SAFETY DATA SHEET

## 100%

### CHINA CLAY – KAOLIN

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. PRODUCT IDENTIFIER

Product name: China Clay – Kaolin  
Product No.: CLAY  
CAS-No.: 1332-58-7  
EC No.: 310-127-6  
Synonym: Kaolin Powder, Clay, Hydrated Aluminum Silicate, Kaolinite  
Chemical Formula:  $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$

##### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Recommended use: In ceramics, bricks, paint, plastics, rubber, sealants, adhesives, coated paper, as a light diffusing material in white incandescent light bulbs. The largest and most common use is in the paper industry. It is the main ingredient in creating "glossy" paper. In the paint industry it is added to act as an extender of titanium dioxide reducing costs and improving rheology. Kaolin is used as a raw material in the manufacture of the pigment ultramarine blue.

##### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

HD Chemicals LTD  
UNIT 9 Scott Business Park  
PL2 2PB Plymouth UK

Contact Person responsible for SDS: Mr Peter Konefal, e-mail: [contact@hdchemicals.co.uk](mailto:contact@hdchemicals.co.uk)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification 67/548/EEC: Not Classified

Classification – EC 1272/2008: Not Classified

**2.2. LABEL ELEMENTS**

No labelling requirements

**SIGNAL WORDS**

Not Classified

**RISK PHRASES**

Not Classified

**HAZARD PHRASES**

Not Classified

**PROTECTION PHRASES**

Not Classified

**SAFETY PHRASES**

Not Classified

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

67/548/EEC/1999/45/EC

**Composition information – main constituents**

Substance name	Mol. Formula	Typical conc. (%w/w)	EINECS No.	CAS-No.	Classification
Kaolin - China Clay	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$	100%	310-127-6	1332-58-7	Not Classified



## EC 1272/2008

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Kaolin – China Clay	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$	100%	310-127-6	1332-58-7	Not Classified

**SECTION 4: FIRST AID MEASURES****4.1. DESCRIPTION OF FIRST AID MEASURES**

**First-aid measures general:** No acute and delayed symptoms and effects are observed. But if you feel unwell after use China Clay, seek medical advice.

**Inhalation:** Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

**Ingestion:** No special treatment required. Rinse mouth thoroughly with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

**Skin contact:** Wash affected area with copious quantities of water for at least 15 minutes. Consult with a doctor if irritation persists.

**Eye contact:** Do not rub eye. Flush eyes with copious quantities of water for at least 15 minutes and seek medical attention if irritation persists.

**4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**

**Inhalation:** There may be irritation of the throat

**Ingestion:** There may be irritation of the throat with a feeling of tightness in the chest

**Skin contact:** There may be mild irritation at the site of contact

**Eye contact:** There may be irritation and redness

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**

No specific first aid measures noted.



## SECTION 5: FIREFIGHTING MEASURES

### 5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: The product is non-combustible. No specific extinguishing media is needed. But when is fire, use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Do not use water jet.

### 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Non combustible. No hazardous thermal decomposition.

### 5.3. ADVICE FOR FIRE-FIGHTERS

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable protective equipment in compliance with national legislation. Avoid breathing vapours, mist or gas. Avoid formation of dust. Ensure adequate ventilation of the working area. Avoid contact with skin, eyes and clothing.

### 6.2. ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Alternatively shovel into bags. Wash the spillage site with large amounts of water. Product on floor when wetted will become slippery and may present a hazard; wear anti-slip boots. Ensure adequate ventilation.



## SECTION 7: HANDLING AND STORAGE

### 7.1. 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 and protective equipment. Handle packaged products carefully to prevent accidental bursting. Do not to eat, drink and smoke in work areas. Wash hands after use. Avoid contact with eyes and skin. Remove contaminated clothing and protective equipment before entering eating areas.

For precautions see section 2.2.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep in a cool, dry, covered, well ventilated area. Keep containers tightly closed. Keep away from food, drink and feed.

### 7.3. SPECIFIC END USE(S)

See section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. CONTROL PARAMETERS/EXPOSURE GUIDELINES

Occupational Exposure Limit Values (China Clay – Kaolin):

CAS NO	Exposure limit	Value	Name of Agent
1332-58-7	TWA – 8 Hrs	2 mg/m <sup>3</sup>	respirable dust
1332-58-7	STEL – 15 Min	No data available	respirable dust

#### Engineering controls:

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of the working day.



EYE PROTECTION



HAND PROTECTION



PROTECTION WEAR

- Protective equipment:** Use protective goggles (European standard - EN 166), gloves (European standard - EN 374) and protective clothes to prevent skin, body and eyes exposure.
- Respiratory equipment:** No protective equipment is needed under normal use conditions, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. Use appropriate engineering controls to avoid dust generation.
- Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure. Gloves must be inspected prior to use. Ensure gloves are suitable for the task: chemical compatibility, dexterity, operational conditions. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact.
- Eye/Face protection:** Safety glasses with side-shields. Ensure eye bath is to hand. Contact lenses should not be worn when working with this product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Colour:	White / light brown
Odour:	Odourless
Initial boiling point (°C):	No data available
Melting point (°C):	1750°C
Freezing point:	No data available
Relative density:	2.6 g/cm <sup>3</sup>
Specific gravity / density:	Not available
Vapour density:	Not available
Vapour pressure:	Not available
Flash point (°C):	Not available



Molecular mass:	258.16 g/mol
Auto-ignition temperature:	Not applicable
Oxidizing properties:	Not available
Decomposition temperature:	Not available
Molecular formula:	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. REACTIVITY

China Clay is not reactive under normal ambient conditions.

### 10.2. CHEMICAL STABILITY

This product is stable under normal temperature conditions and under recommended usage and storage.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

There are no known reactivity hazards associated with this product.

### 10.4. CONDITIONS TO AVOID

Avoid dust formation, heat. Keep away from food, drink and feed.

### 10.5. INCOMPATIBLE MATERIALS

Strong oxidizing agents.

### 10.6. HAZARDOUS DECOMPOSITION

None under normal use conditions.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

TOXIC DOSE	LD50 Oral – Rat – > 2000 mg/kg
	LD50 Dermal – Rat – > 2000 mg/kg
	LC50 Inhalation – Rat – > 5.07 mg/l



<b>Inhalation:</b>	There may be irritation of the throat
<b>Ingestion:</b>	There may be irritation of the throat with a feeling of tightness in the chest
<b>Skin contact:</b>	There may be mild irritation at the site of contact
<b>Eye contact:</b>	There may be irritation and redness

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. TOXICITY

#### Aquatic Toxicity:

Toxicity to freshwater fish: LC50: > 1000 mg/l, 96h (Rainbow trout)

LC50: > 1000 mg/l, 72h (Algae)

Toxicity to water flea: EC50: > 1000 mg/l, 48h (Daphnia magna)

### 12.2. PERSISTENCE AND DEGRADABILITY

The product is not biodegradable.

### 12.3. BIOACCUMULATIVE POTENTIAL

The product does not contain any substances expected to be bioaccumulating.

### 12.4. MOBILITY

The product is insoluble in water. Is not mobile in the environment.

### 12.5. RESULTS OF PBT AND vPvB ASSESSMENT

This product is not identified as a PBT/vPvB substance.

### 12.6. OTHER ADVERSE EFFECTS

No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste disposal recommendations:** Disposal of China Clay should be in accordance with local and national legislation. Processing, use or contamination of this product may change the waste management options. Should not be released into the environment. Dispose of container and unused contents in accordance with applicable member state and local requirements. This mineral can be





disposed of as a non toxic/inactive material in approved landfill sites in accordance with local regulations.

**Uncleaned packaging:** Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

### IMDG

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

### ADR/RID

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

### IATA

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

## SECTION 15: REGULATORY INFORMATION

### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

#### UK REGULATORY REFERENCES

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 1988.

#### STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

#### APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

#### GUIDANCE NOTES



Workplace Exposure Limits EH40.

## 15.2 CHEMICAL SAFETY ASSESSMENT

Chemical safety Assessment has been carried out for this substance.

## SECTION 16: OTHER INFORMATION

### General information

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instruction. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

### Revision Comments

This information is provided in a revised format to that previously produced.

Revision Date: 01/10/2018

Revision: 01

Safety Data Sheet Status Approved.

Date printed 01/10/2018

Signature Initials P.K.

### DISCLAIMER:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

### NOTE:

The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act, 1974; the control of Substances Hazardous to Health Regulations, 1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.