

SAFETY DATA SHEET- AK POWDERED BALL CLAY

According to regulation (EC) No 1907/2006

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

AK Powdered Ball Clay

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

A Devon Ball Clay, very plastic used primarily in Earthenware body preparation where lower vitrification point is required.

1.3 Details of the supplier of the safety data sheet

Valentine Clays LTD

Valentine Way

Stoke on Trent

ST4 2FJ

t: +44 (0)1782 271200

e: sales@valentineclays.co.uk

w: www.valentineclays.co.uk

1.4 Emergency Telephone Number

+44 (0)1782 271200

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Ball clay is of low acute toxicity but does contain free quartz. Ensure that atmospheric dust levels are maintained such that the amount of respirable quartz in the atmosphere is <0.3 mg/m³. Long term exposure to excessive levels of any mineral dust can lead to respiratory problems.

Section 3: Composition/information on ingredients

3.1 Chemical Composition

Silicon Dioxide	SiO ₂	51.1
Titanium Dioxide	TiO ₂	1.1
Alumina	Al ₂ O ₃	31.1
Iron	Fe ₂ O ₃	1.2
Calcium Oxide	CaO	0.2
Magnesium	MgO	0.3
Potassium Oxide	K ₂ O	2.1
Sodium Oxide	Na ₂ O	0.3
Loss of Ignition	LOI	12.5

	% w/w
Kaolinite	53-61
Micaceous mineral	17 - 18
Quartz	12 - 16
Carbonaceous material	2 - 4

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Section 4: First Aid Measures

4.1 Description of first aid measures

After Inhalation- Remove from source to fresh air. If symptoms occur seek medical attention.

After Ingestion- No treatment necessary.

After Eye Contact- For direct contact, flush the affected eye with clean water. If irritation develops, seek medical attention.

After Skin Contact- Usually no problems arise. Cleanse with mild soap and water. If irritation develops seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5: Firefighting Measures

5.1 Extinguishing Media

Suitable extinguishing media

None required.

Extinguishing media that must not be used for safety reasons

None known.

5.2 Special Hazards arising from the substance mixture

None known.

Section 6: Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures

Avoid creating dust. Remove dust by vacuum cleaning.

6.2 Unsuitable Materials

None

6.3 Methods and material for containment and cleaning up

The use of water is not recommended. Surfaced coated with wet material will be a slipping hazard.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Advice of Safe Handling

Use appropriate engineering controls and work practices to minimise dust generation.

Advice on protection against fire and explosion

No special measure required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Dry covered conditions recommended.

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Further Information on Storage Requirements

No special requirements.

7.3 Specific end use(s)

No further relevant information available.

Section 8: Exposure Controls/ Personal Protection

8.1 Control Parameters

Exposure Limits

No data available.

Specific Hygiene Measures

Maintain good standards of industrial hygiene. Ensure that occupational exposure standards are maintained.

Respiratory Protection

Required when dusts are generated. Avoid inhalation of dust.

Hand Protection

Protection recommended for workers who suffer from dermatitis or sensitive skin.

Eye Protection

Provide eye-wash facilities.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General Information

Appearance- Fawn-brown powder

Odour- Odourless

pH- 5.0

Changes in the physical state

Melting Point/Range- >1200°C

Boiling Point/ Range- Not applicable

Flammability- Non-Flammable

Spontaneous Flammability- Non-Flammable

Explosive Properties- None

Oxidising Properties- None

Saturated Vapour Pressure- None

Specific Gravity- 2.6

Solubility- Generally insoluble in common solvents

Water Solubility- Generally <100 mg per kg of water

Lipid Solubility- None

Additional Specification- None

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Section 10: Stability and Reactivity

Circumstances to avoid- None

Dangerous decomposition products- None

Section 11: Toxicological Properties

11.1 Information on toxicological effects

Ball Clays are regarded as non-toxic.

Section 12: Ecological Information

Persistence and Degradability- Non-Biodegradable

Bioaccumulation- Not assimilated

Aquatic Toxicity- Negligible

Section 13: Waste Disposal

Ball clays may be disposed of as non-toxic materials to approved land fill sites in accordance with local regulations.

Section 14: Transport Information

Ball clays are not classified as dangerous for transport.

Section 15: Regulatory Information

15.1 Labelling According to EC Directives

The Dangerous Substances Directive 67/155/EEC enacted in the UK by Chemicals (Hazard Information & Packaging Regulations 1993) Health & Safety Executive EH40/00 – Occupational Exposure Limits.

Section 16: Other Information

'Ball Clay' does not appear in EINECS as an individual entry but is classified as 'naturally occurring substances' with the EINECS number 3101276. 'Clay' appears on the TSCA Chemical Substance Inventory. 'Kaolinite' appears in the CAS directory and has the CAS number 1332-58-7.

This data sheet is provided under CLP and REACH Regulation and is not intended to constitute an assessment of workplace risk associated with product(s) used as required under any other Health and Safety Regulation.

Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

Date of Review: April 2020

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