

AKÖMA™

FROM THE HEART

MATERIAL SAFETY DATA SHEET

1 - Identification of Product and Supplier

Product Name: **Kaolin Powder**
Supplier: Akoma International (UK) LTD
Unit 9A Sawley Park
Nottingham Road
Derby
DE21 6AS
Tel: +44 (0) 1332 613 967
Emergency Contact: Mr. Wynn Mensah – Tel: 01332 613 967

2 - Composition and information on ingredients:

Kaolinite $Al_2Si_2O_5(OH)_4$ or $Al_2O_3 \cdot 2SiO_2 \cdot 4H_2O$
This kaolin is a water refined aluminium silicate containing mainly kaolinite with trace quartz and mica. Crystalline free silica is largely absent after this form of beneficiation.

CAS No: 1332-58-7

3 - Hazards identification:

INERT HAZARD CATEGORY: Inert particulate
Kaolin is affirmed by the Manufacturing Chemists' Association of the USA as generally regarded as safe (GRAS) – 21CFR,186.1256
Nuisance Dust may cause irritation to the respiratory and gastro intestinal tract.

Kaolin may be used in paper and paperboard coatings for food contact – 21CFR,175.300
Sodium Hypochlorite (Aqueous) is added to the kaolin slurry so as to obtain 0,1mg free chlorine residual per litre of kaolin slurry prior to drying.
A biocide is added to the kaolin slurry prior to drying to provide protection against bacteriological degradation (<0,1% wt on wt).

4 - First aid measures:

INGESTION: If swallowed give the person large amounts of water to drink.
INHALATION: If large quantities are breathed in, move the exposed person to fresh air. Get medical attention for any breathing difficulty.
EYE CONTACT: Immediately flush with plenty of water for a few minutes or until water runs clear. Get medical attention if irritation persists.

5 - Fire - Fighting measures:

Non-flammable, Non-combustible, will not burn.
Use extinguishing media appropriate for any surrounding fire.

6 - Accidental release measures:

Ventilate area of leak or spill. Precaution for nuisance dust to maintain dust levels below TLV–TWA. Material is very slippery when wet. Clean up by wet sweeping, vacuuming or flushing with water. Containerize for disposal or reclamation.

7 - Handling and storage:

Minimise dust generation. Wet methods are recommended where practical, otherwise dust extraction should be installed at dust generation points.

8 - Exposure controls and personal protection:

AIRBORNE EXPOSURE LIMITS:

OSHA Permissible Exposure Limit (PEL)	15mg/m (TWA) total particulate. 5mg/m ³ (TWA) respirable fraction.
ACGIH Threshold Limit Value (TLV)	2mg/m ³ (TWA) for respirable dust, A4 Not classifiable as a human carcinogen.
NIOSH Recommended Exposure Limits (REL)	10mg/m (TWA) total particulate. 5mg/m ³ (TWA) respirable fraction.
PERSONAL PROTECTIVE EQUIPMENT:	Normal precautions for nuisance dust.
GLOVES:	Not required.
RESPIRATORY:	NIOSH approved dust respirator
EYE:	Safety glasses
FOOTWEAR:	Non-slip soles if used in wet areas
CLOTHING:	Not required

Where dust levels exceed 15 mg/m³ in the air, dust respirators capable of removing particles between 0 and 20 microns should be used.

9 - Physical data and chemical properties:

PHYSICAL STATE:	Fine white powder
ODOUR AND APPEARANCE:	Odourless white to off-white powder
SOLUBILITY IN WATER:	Not soluble in water
SOLUBILITY IN OTHER LIQUIDS:	Not soluble in mineral acids and organic solvents
pH:	7-8
SPECIFIC GRAVITY:	2,6
CHEMICAL FAMILY:	Natural clay mineral

10 - Stability and Reactivity:

<u>Reactivity:</u>	It presents no significant reactivity hazards, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.
<u>Decomposition:</u>	Thermal decomposition products are carbon dioxide and carbon monoxide.

11 - Toxicological information:

<u>Primary Route of Entry:</u>	Eye contact and inhalation
<u>Effects of Acute Exposure:</u>	None
<u>Effects of Chronic Exposure:</u>	Nuisance may cause respiratory problems
<u>Exposure Limit of material:</u>	Nuisance dust TLV-TWA 15mg/m ³ total dust
<u>Maximum concentration of dust in air:</u>	5mg/m ³ 8 hour time-weighted average

12 - Ecological information:

No adverse ecological effects are expected.
May affect turbidity of water if discharged in large quantities to lakes or streams.

13 - Disposal considerations:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility in accordance with local regulations regarding solid waste.

14 - Transport information:

This product is not specifically listed under hazardous chemical transportation. Not regulated.
HS Hazard Code: 2507.00

15 - Regulatory information:

Not included as a hazardous material requiring special regulations.

16 - Other information:

Kaolin is inert and non-toxic. It can be injurious to the lungs if continual and regular inhalation of high dust concentrations takes place over a long period of time.

COMPOSITION	(Typical)
SiO ₂	47,32%
Al ₂ O ₃	36,52%
Fe ₂ O ₃	0,56%
TiO ₂	0,82%
CaO	0,31%
MgO	0,18%
K ₂ O + Na ₂ O	0,92%
L.O.I.	13,02%

PARTICLE SIZE	(Typical)
% Less 10 micron	87
% Less 2 micron	60

Q.C. REQUIREMENTS

In-line with general product specification. Always satisfy suitability for specific application.

The data provided in this material safety data sheet is meant to represent typical data/analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding it's' correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.

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