



PT. ANEKA KAOLINE UTAMA

KAOLINE MINING & FILLER PROCESSING

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MATERIAL SAFETY DATA SHEET

Kaolin Powder DH-325 Mesh

Effective Date : 01 July 2021

Section 1: Company Profile and Product Name

Product Name: Kaolin Powder DH-325 Mesh

Company Name: PT. Aneka Kaoline Utama

Address: Jln. Murai Air KM 4 RT 07 RW 11, Air Raya Timur I Perawas, Kepulauan Bangka Belitung

Emergency Telephone Number: +62-719-23023

Telephone Number for Information: +6221-6509010

Section 2: Composition and Ingredients Information

Name: Kaolin	CAS: 1332-58-7	Weight: 98%	OSHA PEL 5 mg/m ³ Resp 15 mg/m ³ Total	ACGIH TVL 2 mg/m ³ Resp. -
Name: Water	CAS: 7732-18-5	Weight: 2%	OSHA PEL None	ACGIH TVL None

Section 3: Hazard Identification

Emergency Overview :

- **Inhalation:** The product may contain breathable dust. Prolonged inhalation of a high concentration of dust may affect lung function. To use in complete safety, respect exposure limits.
- **Potential Acute Health Effects:** Hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.
- **Potential Chronic Health Effects:** Slightly hazardous in case of ingestion. CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to upper respiratory tract, stomach. Repeated or prolonged exposure to the substance can produce target organs damage.
- **Signal word/Pictogram:** NONE/NONE
- **GHS Classification:** None (This product does not meet criteria for Classification as Hazardous as defined in the regulation EC 1272/2008 and in Directive 67/548/ECC).
- **OSHA Classification:** Air Contaminant- Kaolin is listed in table Z-1 of 29 CFR 1910.1000.

- **WHMIS Classification:** Non Controlled- Contains less than 0.1% crystalline silica.
- **Precautionary statement:** Avoid breathing dust, wear approved respiratory equipment/protection if exposure is greater than suggested exposure limit.

Section 4: First Aid Measure & Accidental released measure

- **Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- **Skin Contact:** Follow good industrial hygiene practices. Wash affected skin areas thoroughly with soap and water. Seek Medical aid if necessary.
- **Serious Skin Contact:** Not available
- **Inhalation:** Follow good industrial hygiene practices. If excessive exposure by inhalation is suspected, remove to fresh air. If necessary, a MSHA/NIOSH or OSHA/NIOSH approved respirator is recommended. Seek medical aid if necessary.
- **Serious Inhalation:** Not available.
- **Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt, or waistband.
- **Serious Ingestion:** Not available
- **Clean up methods:** Collect by vacuum and mechanical sweeping, avoid dust generation. Remaining residue can be washed to water treatment or storm water systems.
- **Environmental precautions:** This product is generally non-toxic to aquatic systems but may cause high turbidity in storm water. Generally not harmful to water treatment systems.
- **Personal precautions:** Avoid dust formation. Use approved respirators if dust exposure is greater than recommended limits (refer to Section 8 exposure limit table). Water should be used with care as it creates a slipping hazard when mixed with this product.

Section 5: Reactivity Data

- **Stability:** Stable
Condition to Avoid: Avoid dust formation, excess heat and incompatible product
- **Incompatibility (Materials to Avoid):** Strong Oxidize agent
- **Hazardous Decomposition or by-products:** Carbon dioxide (CO²), Carbon monoxide (CO) and silicon dioxide
- **Hazardous Polymerization:** Will not occur
Condition to avoid: None
- **Incompatibility with various substances:** Reactive with oxidizing agents, acids, alkalis.
- **Corrosivity:** Non-corrosive in presence of glass
- **Polymerization:** Will not occur.

Section 6: Fire and Explosion Data

- **Flammability of the Product:** Non-flammable.
- **Auto-Ignition Temperature:** Not applicable.
- **Flash Points:** Not applicable.
- **Flammable Limits:** Not applicable.
- **Products of Combustion:** Not available.
- **Fire Hazards in Presence of Various Substances:** Not applicable.
- **Explosion Hazards in Presence of Various Substances:**
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
- **Fire Fighting Media and Instructions:** Not applicable.
- **Special Remarks on Fire Hazards:** Not available.

- Special Remarks on Explosion Hazards: Not available

Section 7: Handling and Storage

Precautions: Do not breathe dust. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area, keep unused materials in a closed container to avoid contamination and dust exposure. Do not store above 23°C (73.4°F).

Handling: Appropriate personal protection should be wear when handling. Use care when dispensing To avoid dust generation. Fold and flatten empty bags carefully to reduce dust generation. Wash hands after handling.

Product used: Coatings and filler mainly for paint and ceramic.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Exposure limit values: We recommend using the limits published for Kaolin (CAS# 1332-58-7, EC#310-194-1). Below are the tables for the Exposure Limits Kaolin CAS# 1332-58-7:

Value	Limit	Reference
2 mg/m ³ (Respirable dust)	TWA (8 hour)	ACGIH TLV-A4*
15 mg/m ³ (Total dust)	TWA (8 hour)	OSHA PEL
5 mg/m ³ (Respirable dust)	TWA (8 hour)	OSHA PEL
10 mg/m ³ (Total dust)	TWA (10 hour)	NIOSH REL
5 mg/m ³ (Respirable dust)	TWA (10 hour)	NIOSH REL

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contain breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist **BEFORE** handling this product.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Care should be given to avoid dust generation.

Eye protection: Approved safety glasses with side shields.

Skin / body protection: Product may have a drying effect on exposed skin. Avoid direct, repeated skin contact. Select protective clothing considering the work environment and exposure risk. Where skin contact is likely use barrier clothing suitable for nuisance dusts.

Hand protection: Any type of glove that reduces or eliminates skin contact is acceptable.

Respiratory protection: Use a compliant particulate respirator when dust levels exceed or are likely to exceed regulatory limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Powder

Odour: Not available.

Taste: Not available.

Density: 107.63 Gr

Colour: White.

Boiling Point: Not available.

Melting Point: 1750°C (3182°F)

Critical Temperature: Not available.

Specific Gravity: 2.2 (Water = 1)

Vapour Pressure: Not applicable.

Vapour Density: Not available.

Volatility: Not available.

Odour Threshold: Not available.

Water/Oil Dist. Coefficient: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hot water, methanol, diethyl ether, n-octanol.

PH: 3-5

Section 10: Toxicological measure

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. May cause damage to the following organs: upper respiratory tract, stomach.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects based on animal test data. No human data found.

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: Dust may cause skin irritation. Eyes: Dust may cause eye irritation. Ingestion: May cause irritation of the digestive tract. Low hazard for usual industrial handling. Inhalation: Dust may cause respiratory tract irritation. Low Hazard for usual industrial handling. Chronic Potential Health Effects: Prolonged exposure may affect the stomach and respiratory system. The NIOSH Pocket Guide lists the respiratory system and stomach as target organs. Chronic inhalation may cause a particular type of pneumoconiosis called Kaolinosis. It is characterized by positive x-ray findings and mild reductions in pulmonary function. Pure Kaolin is apparently not fibrogenic and does not induce debilitating silicosis. However, if it is contaminated with crystalline silica it may produce severe lung effects, including emphysema and pulmonary fibrosis due to the contaminating silica.

Section 11: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic. Special Remarks on the Products of Biodegradation: Not available.

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

Mobility: This product is insoluble in water

Persistence and degradability: This product is made from a naturally occurring, abundant, innocuous mineral.

Bioaccumulative potential: No data available. This product is not expected to accumulate in biota.

Section 12: Precautions for Safe Handling and Use

HAZCOM LABEL INFORMATION

Steps to Be Taken in Case Material Is Released or Spilled: Do not create a dust, mop with soap and water after sweep the powder.

Precautions to Be Taken in Handling and Storing: Keep the bags sealed to avoid creating a dust

Section 13: Disposal method consideration

Waste Disposal Method: waste is disposed of in accordance with federal, state and local environmental control regulations. Whenever possible pickup and reuse uncontaminated product, avoiding dust generation. Empty packaging materials are suitable for recycling.

Product material is not hazardous as a waste. Dispose waste product and packaging materials according to applicable national and local regulations. Improper disposal may create a nuisance dust hazard. Dispose waste product and packaging materials in closed containers to avoid dusting.

Section 14: Transport Information

UN number: None

Proper Shipping Name: Clay (Kaolin)

Standard Transportation Commodity Code (SSTC): 32-962-31

Hazardous Material Classification: None

HS Code: 2507.00.00

Transport Hazard Class: not hazardous according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA DGR

Label Required: Use original label including all warnings. When disposing of this material in its pure form use a 'Non-Hazardous Waste' label

Section 15: Regulatory Information

According to Mining law Regulatory Indonesia (Sullivan,2013). Government set a minimum standard regulation for **exported Kaolin (CAS#1332-58-7)**. The Standards are

1. Whiteness: **>79%**
2. Grain size **> 2 mikron < 30%**
3. Grain size **> 5 mikron < 12%**
4. SiO₂ between **47,73 and 47,80** and AL₂O₃ between **37,30 and 37,84**

CAS# 1332-58-7 can be found in the following registries: **AICS (Australia), China Inventory, DSL (Canada), ECL (Korea), EINECS (Europe), ENCS (Japan), PICCS (Philippines), SWISS (Swiss), ERMA IIC (New Zealand). German Water Classification - Annex I: Non Hazardous (ID No. 765). Product does not require a hazard warning label in accordance with EC Directive 2008/1272/EC.**

WHIMS classification: Non controlled (tested, contains less than 0.1% crystalline silica).

Section 16: Other Regulatory Information

Hazardous Material Identification System (HMIS):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association:

Health: 1

Flammability: 0

Reactivity: 0

Other Classifications:

PRODUCT IDENTIFICATION: CLAY (KAOLIN POWDER DH-325)

MANUFACTURER'S NAME: PT. ANEKA KAOLINE UTAMA

MANUFACTURER'S ADDRESS: TANJUNGPANDAN, BELITUNG

MANUFACTURER'S COUNTRY: INDONESIA

HEALTH EMERGENCY TELEPHONE NO: +62-719-23021

LABEL REQUIRED INDICATOR: Y

DATE LABEL REVIEWED: N / K

STATUS CODE: PT. ANEKA KAOLINE UTAMA

MANUFACTURER'S LABEL NUMBER:

DATE OF LABEL:

YEAR PROCURED: N / K

CHRONIC HAZARD INDICATOR: Y

EYE PROTECTION INDICATOR: Y

SKIN PROTECTION INDICATOR: Y

RESPIRATORY PROTECTION INDICATOR: Y

SIGNAL WORD: CAUTION

HEALTH HAZARD: MODERATE

FIRE HAZARD: NONE

REACTIVITY HAZARD: NONE