

Continuing a Legacy of Customer Focus and Innovation

functional anhydrous and hydrous aluminum silicates

Burgess Pigment

SAFETY DATA SHEET

KAOLIN (Hydrous Kaolin Clay)

Effective 7 February 2014, Expires 28 February 2017

1 - IDENTIFICATION, PRODUCT AND COMPANY

Products: Burgess No. 10, Burgess No. 10 SD, Burgess No. 17, Burgess No. 17 SD, Burgess No. 20, Burgess No. 20 SD, Burgess No. 25, Burgess No. 25 SD, Burgess No. 27, Burgess No. 28, Burgess No. 40, Burgess No. 60, Burgess No. 97, Burgess No. 98, POLYCLAY, POLYCLAY SD, THERMO-GLACE H, THERMO-GLACE H SD, THERMO-GLACE HB.

Other name(s): Kaolin Clay, Hydrous Kaolin, Hydrous Aluminum Silicate, China Clay

Product use: Mineral pigment extender (or filler) used in paper coatings, paints, rubber and plastic formulations

Manufacturer: Burgess Pigment Company, 525 Beck Boulevard, P.O. Box 349, Sandersville, Georgia 31082 U.S.A.

Internet: www.burgesspigment.com Email: technicalcenter@burgesspigment.com

Emergency phone: CHEMTREC in the United States at 800-424-9300 or 703-527-3887 International

2 - HAZARD IDENTIFICATION

GHS classification: NONE (This product is not classified as hazardous according to Parts 2, 3 and/or 4)

Signal Word / Pictogram: NONE

OSHA classification: Air Contaminant - listed in Table Z-1 of 29 CFR 1910.1000

WHMIS classification: Non Controlled - contains less than 0.1% crystalline silica

Precautionary statements: Avoid breathing dust, wear approved respiratory protection if exposure is greater than suggested exposure limits (see Section 8)

3 - COMPOSITION, INFORMATION ON INGREDIENTS

Component(s)	CAS Registry No.	EINECS No.	% (Approx.)	GHS / EC Hazard Classification
Kaolin	1332-58-7	310-194-1	100	Not classified as hazardous

4 - FIRST AID MEASURES

Eye contact: Direct contact may cause irritation by mechanical abrasion. Hold eyelids apart and flush with a steady stream of water for several minutes.

Skin contact: Direct contact may cause irritation by mechanical abrasion. Wash skin with soap and water.

Inhalation: Dust may irritate the nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following unprotected exposure in excess of suggested limits. Move person to fresh air.

Ingestion: Expected to be non-toxic. Ingestion of large amounts may cause gastrointestinal irritation and blockage. Rinse mouth out with water. Do not induce vomiting.

General advice: First-aid responders should wear respiratory protection (e.g. dust mask) in dusty areas. If symptoms persist seek medical attention. Change contaminated clothing.

5 - FIRE FIGHTING MEASURES, FIRE OR EXPLOSION HAZARDS

Extinguishing media: Non-combustible. Use media appropriate for surrounding materials or packaging.

Flash point: Non-combustible.

Flammable limits in air: Not flammable

Inappropriate extinguishing media: None

Autoignition temperature: Not flammable

Unusual fire and explosion hazards: None known.

Explosion data: Non-explosive

Protective measures: Use protective equipment appropriate for surrounding materials or packaging.

Sensitivity to static discharge: Not applicable

General advice: Although inert, product can become slippery when exposed to water. Use caution walking around or handling broken product bags when exposed to water.

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6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Avoid dust formation. Use approved respirators if dust exposure is greater than suggested limits (see Section 8). Water should be used with care as it creates a slipping hazard when mixed with this product.
- Environmental precautions:** This product is generally non-toxic to aquatic systems but may cause high turbidity in storm water. Product is generally not harmful to water treatment systems.
- Clean up methods:** Collect by vacuum and mechanical sweeping, avoid dust generation. Remaining residue can be washed to water treatment or storm water systems.

7 - HANDLING AND STORAGE

- Handling:** Appropriate personal protection should be used when handling (see Section 8). Use care when dispensing to avoid dust generation. Fold and flatten empty bags carefully to reduce dust generation. Wash hands thoroughly after handling.
- Storage:** Best if kept under dry conditions. Not generally affected by hot or cold storage. Keep unused material in a closed container to avoid contamination and dust exposure.

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure limit values: Use your local / national occupational exposure limits for kaolin (or "nuisance dust") if more stringent than the following:

Exposure Limits:	Value	Limit	Reference
Kaolin CAS# 1332-58-7	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

Notes- (-A4) This indicates that kaolin is "Not Classifiable as a Human Carcinogen" by ACGIH.

This product contains less than 0.1% crystalline silica (quartz) based on testing using NIOSH method 7500.

Engineering controls: Dust levels in excess of appropriate exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee work stations.

Occupational exposure controls-

- Eye protection:** Approved safety glasses with side shields.
- Skin / body protection:** No special clothing required. Use suitable protection considering the work environment and exposure risk.
- Hand protection:** Any type of glove that reduces skin contact with the material is acceptable.
- Respiratory protection:** Use a compliant particulate respirator when dust levels exceed or are likely to exceed regulatory limits.
- Hygiene measures:** Handle in accordance with good industrial hygiene and safety practices. Care should be given to avoid dust generation.

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9 - PHYSICAL AND CHEMICAL PROPERTIES

General information, appearance and odor: Off-white dry powder, soil-like odor.

Important health, safety and environmental information:	pH in water (20% solids suspension): 3.5- 7.5				
Boiling point: N/A (Solid)	Melting point: >1700° C	Flash point: N/A	Flammability: N/A		
Explosive properties: N/A	Oxidizing properties: N/A	Vapor pressure (mm Hg):	No Vapor		
Specific gravity (H₂O=1):	2.6	Solubility in water:	Insoluble	Vapor density (Air=1):	No Vapor

10 - STABILITY AND REACTIVITY

Conditions to avoid: This product is stable under normal storage, handling and environmental conditions.

Incompatible Materials: None known. This product is stable when used as intended by the manufacturer.

Hazardous decomposition products: None known. This product is stable in water

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Limited animal studies indicate no hazard, generally regarded as safe by FDA
Skin corrosion / irritation:	No data available, generally regarded as safe by FDA
Serious eye damage / irritation:	No data available, generally regarded as safe by FDA
Respiratory or skin sensitization:	Limited animal studies indicate no hazard, generally regarded as safe by FDA
Germ cell mutagenicity:	Limited animal studies indicate no hazard, generally regarded as safe by FDA

Carcinogenicity: Kaolin is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). The American Conference of Governmental Industrial Hygienists (ACGIH) lists kaolin as- Not Classifiable as a Human Carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

Reproductive toxicity: Limited animal studies indicate no hazard, generally regarded as safe by FDA

Specific Target Organ Toxicity (STOT)

Single exposure: Limited animal studies indicate no hazard, generally regarded as safe by FDA

Repeated exposure: Inhalation- Human studies indicate that chronic (15-20 years) exposure to excessive dust levels may lead to pneumoconiosis, a lung disease. Not all individuals with pneumoconiosis will exhibit symptoms (signs) of the disease. However, pneumoconiosis can be progressive and symptoms can appear at any time, even years after the exposure has ceased. Symptoms of pneumoconiosis may include but are not limited to the following: shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume.

Aspiration hazard: Limited animal studies indicate no hazard, generally regarded as safe by FDA

12 - ECOLOGICAL INFORMATION

Ecotoxicity: Animal testing indicates no adverse ecological effects are expected. May affect turbidity of water if discharged in large quantities to lakes or streams.

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.

Mobility in Soil: This product is insoluble in water

13 - DISPOSAL CONSIDERATIONS

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.



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14 - TRANSPORTATION INFORMATION

UN or DOT Number & Proper Name: Not a hazardous material as defined under national / international road, rail, sea and air transport regulations.

Transport Hazard Class: None **Packaging Group:** None **Environmental Hazards:** None

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

15 - REGULATORY INFORMATION

U.S. Federal Regulations

FDA: Kaolin (aluminum silicate, china clay, clay) is acceptable for several specific uses. See 21 CFR 73, 82, 175, 176, 177, 178, 186, 310, 335, 346, 347 and 872.

SARA Title III (EPCRTKA) Section 302: This product does not contain any extremely hazardous substances subject to the reporting requirements of 40 CFR Part 355.

SARA Title III (EPCRTKA) Section 311/312: This product is made from kaolin, listed in Table Z-1 of 29 CFR 1910.1000 "Air Contaminants" and is subject to the reporting requirements of 40 CFR Part 370 (threshold quantity of 10,000 lbs)

SARA Title III (EPCRTKA) Section 313: This product does not contain substances subject to the reporting requirements of 40 CFR Part 372.

TSCA: This product is listed on the TSCA inventory. This product does not contain substances subject to export notification under Section 12(b) of TSCA.

North American Regulations

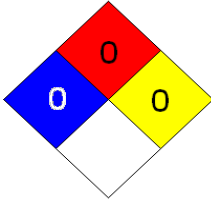
Several states, provinces and territories specifically list kaolin and regulate dust exposure. **USA:** Alaska, Arizona, California, Idaho, Indiana, Massachusetts, Michigan, Minnesota, North Carolina, Oregon, Pennsylvania, Rhode Island, Tennessee, Texas, Vermont, and Washington. **Canada:** Alberta, British Columbia, Manitoba, New Brunswick, Northwest Territories, Nova Scotia, Nunavut, Ontario, Quebec, Saskatchewan, and Yukon. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and this MSDS contains all the information required by the Controlled Products Regulations. **WHIMS classification: Non controlled** (tested, contains less than 0.1% crystalline silica). **Mexico:** see national exposure limits. **For the most current regulatory information please contact the appropriate agencies in the state, province or territory where the product is used.**

Foreign Regulations

CAS# 1332-58-7 can be found in the following registries: AICS (Australia), DSL (Canada), IECSC (China), EINECS (Europe), ENCS (Japan), ECL (Korea), NZIoC (New Zealand), PICCS (Philippines).

German Water Classification - Annex 1: Non-Hazardous (ID No. 765). Product does not require a hazard warning label in accordance with EC Directive 2008/1272/EC.

16 - OTHER INFORMATION



LEGEND FOR
HMIS / NFPA

4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

* = CHRONIC HAZARD. Review and abide by suggested exposure limits. Monitor work area for potential over-exposure.
E = Use safety glasses, gloves and appropriate respiratory protection for dusty conditions.

Kaolin is a naturally occurring mineral. Its chemical formula is $Al_2Si_2H_4O_9$

Revised on 7 February, 2014: Modifications for GHS compliance. Conforms to ANSI Z400.1/Z129.1-2010 Standard
Prepared by: Safety, Health & Environmental Manager- Daytime Tel: 800-841-8999 or 478-552-2544