



Safety Data Sheet

Hydrous

Date of First Issue: 2/1/2023

Date of Revision: 2/1/2026

SECTION 1 - IDENTIFICATION, PRODUCT AND COMPANY

Product name: THERMO GLACE H

REACH status: Exempted in accordance with Annex V.7

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

Product Use: Mineral pigment used as an extender or filler in paper, coatings, paints, adhesives, sealants, printing inks, rubber and plastic formulations. Also used as a pozzolan in mortar and concrete.

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 Number: Burgess Pigment Company, +1 478 552 2544, From 12:30 PM (UTC) to 8:30 PM (UTC). Employees only speak English.

SECTION 2 - HAZARD IDENTIFICATION

GHS classification: NONE (This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008 and in Directive 67/548/ECC)

Signal Word / Pictogram: NONE / NONE

OSHA classification: Not classified as hazardous

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)

California Prop 65 hazards: NONE

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

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

SECTION 4 - FIRST AID MEASURES

4.1 Description of First Aid Measures:

Inhalation: Move person to fresh air. If exposure symptoms persist, seek medical attention.

Skin Contact: Remove contaminated clothing as necessary to avoid direct contact. Wash off with water, using soap if available.

Eye contact: Hold eyelids apart and flush with a steady stream of water for several minutes.

Ingestion: Clean mouth with water. Drink water as necessary. If symptoms persist, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed: No acute and delayed symptoms and effects are observed. None known.

4.3 Indication of any immediate medical attention and special treatment needed: No data available. No specific actions are anticipated.

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.

SECTION 5 - FIRE FIGHTING MEASURES, FIRE OR EXPLOSION HAZARDS

5.1 Extinguishing media:

Suitable extinguishing media: Substance is noncombustible. Use media appropriate for surrounding materials or packaging.

5.2 Special hazards arising from the substance:

Hazardous combustion products: No hazardous combustion products known for substance. Packaging materials are paper or plastic.

5.3 Advice for firefighters: The substance is inert and can be slippery when exposed to water. Use caution walking around or handling broken product bags when exposed to water.

Special Protective measures: In the event of fire, wear self-contained breathing apparatus. Use protective equipment appropriate for surrounding materials or packaging.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: 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.

6.2 Environmental precautions: No special environmental precautions required. This product is generally non-toxic to aquatic systems but may cause high turbidity in storm water.

6.3 Methods and material for containment and cleaning up: Sweep up with shovel, avoid dust generation. Keep in suitable, closed containers for disposal.

6.4 Reference for other sections: Not applicable

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe 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. Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities: Best if kept in dry conditions. Not generally affected by hot or cold storage. Keep unused material in a closed container to avoid contamination and dust exposure. Minimize airborne dust generation and prevent wind dispersal during loading and unloading.

7.3 Specific end use(s): Please refer to your Customer Service, Sales or Distributor Representative for detailed information. Product is considered industry grade material.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION, PREVENTIVE MEASURES

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

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.

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

Exposure Limits Kaolin CAS# 1332-58-7

Value	Limit	Reference
2 mg/m3 (Respirable dust)	TWA (8 hour)	ACGIH TLV-A4*
15 mg/m3 (Total dust)	TWA (8 hour)	OSHA PEL
5 mg/m3 (Respirable dust)	TWA (8 hour)	OSHA PEL
10 mg/m3 (Total dust)	TWA (10 hour)	NIOSH REL
5 mg/m3 (Respirable dust)	TWA (10 hour)	NIOSH REL

Occupational exposure controls

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.

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

Environmental exposure controls: Avoid conditions that would allow wind dispersal

SECTION 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 (range for all hydrous products- refer to specific product TDS for exact pH)

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

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity: Stable under recommended storage conditions. Inert / not reactive.

10.2 Chemical stability: Chemically stable

10.3 Possibility of hazardous reactions: No hazardous reactions.

10.4 Conditions to avoid: None known. Stable under normal storage, handling, and environmental conditions.

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

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

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

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.

Carcinogenicity: Calcined 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.

Germ cell mutagenicity: Limited animal studies indicate no hazard.

Reproductive toxicity: Limited animal studies indicate no hazard.

Specific Target Organ Toxicity (STOT):

Single Exposure: Limited animal studies indicate no hazard.

Repeated Exposure: Inhalation - Human studies indicate that chronic exposure to high levels of Kaolin dust that contains between 1% and 3% crystalline silica 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.

11.2 Information on other hazards: No data available.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity: Kaolin: Toxicity to Fish, no data available. Toxicity to daphnia and other aquatic invertebrates, no data available. Toxicity to algae / aquatic plants, no data available. Toxicity to microorganisms, no data available.

12.2 Persistence and degradability: No data available. This product is made from a naturally occurring, abundant, innocuous mineral.

12.3 Bioaccumulative potential: Kaolin: Partition coefficient: n-octanol/water (POW)

12.4 Mobility in soil: No data available. This product is insoluble in water.

12.5 Results of PBT and vPvB assessment: This product contains no components considered to be either persistent, bioaccumulative and toxic (PBT). Or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties: This product does not contain components considered to have endocrine disrupting properties.

12.7 Other adverse effects: Additional ecological information: Kaolin is common, abundant mineral found on the earth's surface causing no known adverse effects. No biodegradable.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product: Whenever possible pickup and reuse uncontaminated product, avoiding dust generation. Product is not a hazardous waste. Dispose of product according to applicable national and local regulations. Place in closed containers to avoid dust generation.

Packaging: Empty packaging materials are suitable for recycling. Carefully collect and slowly compact packaging to avoid dust generation. Place in closed containers to avoid dust generation. Provide suitable worker protection if dusty conditions persist.

SECTION 14 - TRANSPORTATION INFORMATION

14.1 UN or ID number:

ADR/RID: Not regulated as a dangerous good.

ADN: Not regulated as a dangerous good

IMDG: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

14.2 UN Proper Shipping Name:

ADR/RID: Not regulated as a dangerous good.

ADN: Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

14.3 Transport Hazard Class(e)s:

ADR/RID: Not regulated as a dangerous good.

ADN: Not regulated as a dangerous good.

IMDG: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

SECTION 15 - REGULATORY INFORMATION

Chemical safety assessment: Not performed on this product. Adverse effects are not expected when product is used according to guidelines presented in this document.

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 does not contain any hazardous chemicals subject to the reporting requirements of 40 CFR part 370.

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 or its components are listed in or exempt from the TSCA inventory requirements. This product does not contain substances subject to export notification under Section 12(b) of TSCA.

North American Regulations

USA: Alaska, Arizona, California, Idaho, Indiana, Massachusetts, Michigan, Minnesota, North Carolina, Oregon, Pennsylvania, Rhode Island, Tennessee, Texas, Vermont, and Washington.

California Prop 65: No substances requiring notification.

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: Noncontrolled (tested, contains less than 0.1% crystalline silica).

Mexico: See national exposure limits.

Several states, provinces and territories specifically list kaolin and regulate dust exposure.

Foreign Regulations

Hazard symbols: None

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

SECTION 16 - OTHER INFORMATION

Health = * 0 : (nuisance dust- fine particulate)

Flammability = 0 : (non flammable)

Physical Hazard = 0 : (non reactive)

Personal Protective Equipment = E **:

Revised on 01 February 2023: Minor format changes. Conforms to ANSI Z400.1/Z129.1-2010 Standard. OSHA HCS (2012).

Kaolin is a natural hydrous clay that contains bound water. It's chemical formula is $Al_2 Si_2 H_4 O_9$

Hazardous Materials Identification System (HMIS^R III) Ratings

* Possible chronic hazard. Review and abide by suggested dust exposure limits. Monitor work area for potential over-exposure to dust.

** Use safety glasses, gloves and appropriate respiratory protection for dusty conditions.