

# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

**Product Identifier:** Kaolin Clay

**Synonyms:** China clay, Clay, Hydrated aluminum silicate, Hydrite, Porcelain clay

**Product Name:** K12, K14, K16, K25, K48, K80, K99

**Recommended Use:** A natural mineral. Grayish-white to opaque powder or granular with a slight earthy odor. Used in the manufacture of substances.

**Restrictions on Use:** None

### Manufacturer

NC Minerals, LLC

10779 Hampshire Ave S  
Minneapolis, MN 55438


ncminerals.biz

(952) 212-6541

## SECTION 2 - HAZARD IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

This mixture as produced has not been assessed and/or tested for its physical, health, and environmental hazards, but hazards are inferred through similarity to other alumino-silicates and mineralogical materials of similar composition. Analogous mixtures do not meet the criteria for classification as hazardous as defined in EU or GHS regulations.

LABEL ELEMENTS	HAZARD STATEMENT
 <p style="margin-top: 10px;">OSHA HCS 2012 - DANGER</p>	<p>Causes mild skin irritation. May cause eye irritation. May cause respiratory irritation.</p>

## PRECAUTIONARY STATEMENTS

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**PREVENTION** - Handle Quick Dry with care to minimize dust generation. Observe good industrial hygiene practices. Wear eye protection. Avoid breathing dust. Wear respiratory protection (in case of inadequate ventilation).

**RESPONSE** - IF ON SKIN: Rinse with water.

IF IN EYES: Rinse with water, seek medical attention if discomfort continues.

IF INHALED: Move the exposed person to fresh air, keep at rest and comfortable. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops

IF SWALLOWED: Rinse mouth.

**STORAGE** - Keep product dry.

**DISPOSAL** - Generally inert. Dispose in accordance with regulations.

**HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS** - none.

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## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Kaolin is a UVCB substance (substances of Unknown or Variable composition, Complex reaction products or Biological materials). Composition entirely from natural minerals without any chemical additives. Kaolin is a fine light colored or white earth with high contents of clay minerals, namely of kaolinite. Apart from kaolinite it contains flint, mica, feldspars, other clay minerals and other materials based on the character of the mother earth.

**Common Chemical Name:** Kaolin

**CAS Number:** 1332-58-7

**Synonyms:** China clay, Clay, Hydrated aluminum silicate, Hydrite, Porcelain clay

**EC Number:** 310-194-1

**Formula:**  $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$

**Content of hazardous substances:** Not known. Contains less than 1% of respirable crystalline silica.

**Molecular Weight:** 258.1604 g/mole

*A natural mineral. Grayish-white to opaque powder or granular with a slight earthy odor.*

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Chemical Name	Typical Concentration
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Kaolinite	≤ 100%
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## SECTION 4 - FIRST AID MEASURES

**INHALATION:** Dust may irritate the nose, throat and respiratory tract by mechanical abrasion. Coughing, sneezing and shortness of breath may occur following exposures in excess of appropriate exposure limits. Move to fresh air. If breathing is difficult give oxygen and seek medical attention.

**SKIN:** Wash skin with soap and water.

**EYE:** Do not rub eyes. Contact with dust may cause irritation by technical abrasion.

Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from the eye(s). Contact a physician if irritation persists or later develops.

**INGESTION:** If the person is conscious, rinse mouth with water; however, never attempt to make an unconscious person drink or vomit. Get immediate medical attention.

### MOST IMPORTANT SYMPTOMS AND EFFECTS

Acute (immediate):

Chronic (delayed):

Refer to Section 11 - Toxicological Information

Refer to Section 11 - Toxicological Information

### NOTES TO PHYSICIAN

All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## SECTION 5 - FIRE-FIGHTING MEASURES

### RATINGS

**NFPA:** Health 0, Flammability 0, Reactivity 0

**HMIS:** Health 0, Flammability 0, Reactivity 0

### SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

### EXTINGUISHING MEDIA

**Suitable Extinguishing Media:** All standard firefighting media

**Unsuitable Extinguishing Media:** No specific information. Consider surrounding materials.

**Unusual Fire and Explosion Hazards:** Contact with powerful oxidizing agents may cause fire and/or explosions

**Hazardous Combustion Products:** Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Silicon dioxide

**Advice for Firefighters:** Standard personal protective equipment.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** No action shall be taken involving personal risk or without suitable training. If particulate levels exceed or are likely to exceed exposure limits, use OSHA-approved dust mask. Local exhaust or general ventilation adequate to maintain exposures below appropriate exposure limits. Wear adequate eye protection.

**Emergency Procedures:** Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated.

**Hygiene/Skin Protection:** Wash dust-exposed skin with soap and water before eating, drinking, smoking and using toilet facilities. Wash work clothes after each use.

**Environmental Precautions:** Prevent further leaking or spillage if safe to do so. Avoid conditions which result in generating airborne dust. Avoid run off to waterways and sewers.

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## METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

**Containment:** Contain and cover spill to minimize dust emission

**Clean Up:** Clean up by sweeping, shoveling, vacuuming, or flushing with water.

**Neutralizing Chemicals:** None required

**Disposal:** Generally inert. Dispose in accordance with regulations – or recycle and use beneficially in other applications.

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## SECTION 7 - HANDLING AND STORAGE

**Handling:** Avoid airborne dust generation. Use adequate ventilation and/or dust mask approved by NIOSH. Wear adequate eye protection. Exposed skin may become dry and irritated with prolonged contact. Avoid contact with food and ingestion.

**Storage:** Keep product dry. Provide proper ventilation when handling this material to minimize dust.

**Incompatible  
Materials or  
Ignition Sources:** Strong acids

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	Percent wt	ACGIH TLV (TWA) (mg/m <sup>3</sup> )	OSHA PEL (TWA) (mg/m <sup>3</sup> )	NIOSH REL (TWA) (mg/m <sup>3</sup> )	Cancer
Kaolin	≤100%	2	15 (total) 5 (resp)	10 (total) 5 (resp)	No

Main constituent of Kaolin is Kaolinite  $\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$ .

### CONTROL PARAMETERS

**Eye Wash:** Ensure that eye wash stations are close to the workplace location

**Exposure:** Evaluate degree of exposure and use PPE as necessary

**Ventilation:** Local exhaust or ventilation adequate to reduce exposures below appropriate limits

### EXPOSURE CONTROLS

**General:** General room ventilation is normally adequate. Air monitoring is recommended. If necessary, use a local exhaust ventilation to keep exposure levels below Occupational Exposure Limits.

**Eye Protection:** ANSI, CSA or ATM approved glasses or goggles. Dust goggles should be worn if excessive emissions are present and when wearing contact lenses.

**Respiratory Protection:** Follow OSHA respirator guidelines found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hand Protection:** No special requirements. Wear gloves to protect skin.

**Skin Protection:** No special requirements. Wear appropriate clothing to minimize skin contact.

**Footwear:** No special requirements.

**Protection:** Wash dust-exposed skin with soap and water before eating, drinking, smoking and using toilet facilities. Wash work clothes after each use.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### MATERIAL DESCRIPTION

**Physical Form:** Solid

**Appearance / Description:** Powder

**Color:** Grayish white to beige

**Odor:** No odor

**Taste:** No data available

**Particulate Type:**

**Particulate Size:**

**Aerosol Type:** N/A

**Odor Threshold:** No data available

**Physical & Chemical Properties:** No data available

### GENERAL PROPERTIES

**Boiling Point:** No data available

**Melting Point:** 1750°C / 3182°F

**Decomposition**

**Head of**

**Temperature:** No data available

**Decomposition:** No data available

**pH:** 6.0

**Specific Gravity /  
Relative Density:** 2.6

**Density:** 162.3127 lb/ft<sup>3</sup>

**Bulk Density:** No data available

**Water Solubility:** Insoluble

**Solvent Solubility:** No data available

**Viscosity:** N/A

**Explosive Properties:** No data available

**Oxidizing Properties:** No data available

### VOLATILITY

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Evaporation Rate:** 0

**VOC (Wt.)** 0%

**VOC (Vol.)** <1%

**Volatiles (Wt.)** 0%

**Volatiles (Vol.)** <1%

**FLAMMABILITY****ENVIRONMENTAL****Flash Point:** Not combustible**Half Life:** Data lacking**Self-Accelerating  
Decomposition Temp (SADT):** N/A**Coefficient of  
Water/Oil Distribution:** N/A**Heat of Combustion ( $\Delta H_c$ ):** N/A**Bioconcentration  
Factor:** Data lacking**Burning Time:** N/A**Chemical Oxygen  
Demand:** Data lacking**Flame Height:** N/A**Degradation:** Data lacking**Ignition Distance:** N/A**LEL:** N/A**Octanol/Water Partition  
Coefficient:** N/A**UEL:** N/A**Bioaccumulation  
Factor:** Data lacking**Autoignition:** N/A**Flame Duration:** N/A**Biochemical  
Oxygen Demand  
(BOD/BOD5):** N/A**Flame Extension:** N/A**Persistence:** Data lacking**Flammability (solid, gas):** N/A**SECTION 10 - STABILITY AND REACTIVITY****Reactivity:** No data available**Chemical Stability:** Stable under recommended storage conditions.**Possibility of Hazardous Reactions:** No data available**Conditions to Avoid:** Avoid dust formation. Incompatible products.  
Excess heat.**Incompatible Materials:** Strong oxidizing agents**Hazardous Decomposition Products:** No data available**Hazardous Polymerization:** Does not occur**Hazardous Reactions:** No data available None under normal processing

## SECTION 11 - TOXICOLOGICAL INFORMATION

### INFORMATION ON TOXICOLOGICAL EFFECT

Component Name	CAS #	Data
Kaolin	1332-58-7	Acute Toxicity: No data available Irritation: No data available Reproductive: No data available

### SPECIAL STATEMENT ON CRYSTALLINE SILICA

In product form, no toxicological hazards exist due to all crystalline material being incased in alumino-silicate matrix. It is classified as a nuisance dust. If product is machined, respirable particles of free crystalline silica may be formed.

### GHS PROPERTIES

### CLASSIFICATION

Acute Toxicity:	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard:	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity:	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity:	OSHA HCS 2012 • Classification criteria not met
Respiratory Sensitization:	OSHA HCS 2012 • Classification criteria not met
Serious Eye Damage/Irritation:	OSHA HCS 2012 • Classification criteria not met
Skin Corrosion/Irritation:	OSHA HCS 2012 • Classification criteria not met
Skin Sensitization:	OSHA HCS 2012 • Classification criteria not met
STOT-RE 2:	OSHA HCS 2012 • Classification criteria not met
STOT-SE:	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction:	OSHA HCS 2012 • Classification criteria not met



## POTENTIAL HEALTH EFFECTS

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**Inhalation:**

*Acute (Immediate):*  
Irritation, coughing

*Chronic (Delayed):*  
Respiratory irritation,  
pneumoconiosis

**Skin:**

*Acute (Immediate):*  
Irritation

*Chronic (Delayed):*  
Data lacking

**Eye:**

*Acute (Immediate):*  
Irritation

*Chronic (Delayed):*  
Data lacking

**Ingestion:**

*Acute (Immediate):*  
Irritation

*Chronic (Delayed):*  
Data lacking

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## SECTION 12 - ECOLOGICAL INFORMATION

**Toxicity:** Material data lacking

**Mobility in Soil:** Material data lacking

**Persistence and Degradability:** Material data lacking

**Other Adverse Effects:** Material data lacking

Material data lacking

**Bioaccumulative Potential:** Material data lacking

**Other Information:** Material data lacking

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## SECTION 13 - DISPOSAL CONSIDERATIONS

**Product Waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging Waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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## SECTION 14 - TRANSPORT INFORMATION

**DOT Shipping Name:** None

**UN Number:** Not applicable.

**DOT Hazard Class:** None

**UN Proper Shipping Names:** Not applicable.

**DOT Label(s):** None

**Transport Hazard Class:** Not applicable.

**Packaging Group:** Not applicable.

Shipping and Transportation Kaolin is classified as a non-hazardous material by the Canadian Transportation of Dangerous Good (TDG) Regulations and the US Department of Transportations (DOT). EU Transportation: Road (ADR); Rail (RID); Sea (IMDG); Air (ICO/IATA) – not restricted. International Maritime Dangerous Goods (IMDG Code) – Not classified. Transport in bulk EU Annex II of MARPOL73/78 and the IBC Code) – Not applicable.

## SECTION 15 - REGULATORY INFORMATION

**State:** Consult local and state hazard communication regulations.

**Federal:** FDA: 21 CFR 175.105; 21 CFR 175.300; 21 CFR 176.170; 21 CFR 176.180; 21 CFR 177.1210; 21 CFR 178.3297; 40 CFR 180.1011(C)

**TSCA/DSL:** Listed under CAS 1317-65-3 Exempt from DSL as naturally occurring.

**SPILLS:** Sweep up spillage in dry form where possible.

**OSHA:** Labeling required under OSHA Hazard Communication Standard (29 CFR 1910.1200 (and other applicable state and local laws and regulations.

**SARA 311/312:** Kaolin is listed in Table Z-1 of 29 CFR 1910.1000 "Air Contaminants", subject to reporting per 40 CFR Part 370 (TQ = 10,000 lbs.)

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Massachusetts  
Right to Know**

**Components:** Kaolin CAS No. 1332-58-7 Revision Date 207-03-01

**Pennsylvania Right to  
Know Components:**

Kaolin CAS No. 1332-58-7 Revision Date 207-03-01

**New Jersey Right to  
Know Components:**

Kaolin CAS No. 1332-58-7 Revision Date 207-03-01

**Rhode Island Right to  
Know Components:**

Kaolin CAS No. 1332-58-7 Revision Date 207-03-01

**NAFTA:** Product qualifies under HS Tariff No 2521.00 as 100% US Origin, Preference Criteria A.

**USDHS:** This product does not contain any DHS chemicals.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR

**WHMIS Hazard Class:** Non-controlled

**EU Directive:** Not classified as hazardous for supply (1999/45/EC)

CAS No.	Chemical Name	SARA 302	SARA 304	SARA 313	RCRA	CAA Sec. 112
1332-58-7	Kaolin	No	No	No	No	No

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## SECTION 16 - OTHER INFORMATION

**Last Revision Date:** 1/20/2020

**Preparation Date:** 8/29/2019

**Disclaimer / Statement of Liability:** The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstance of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1