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Safety Data Sheet

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Section 1. Product and Company Identification

Product Names EPK Kaolin

Synonym Edgar Clay

Supplier/ Edgar Minerals, Inc. **Manufacturer** 651 Keuka Rd.

Hawthorne, FL 32640 904-481-2421 phone 904-481-2334 fax

Emergency Phone Number 352-317-1617

Product Use Ceramics, Sanitary Ware, Agriculture

Restrictions on use Not applicable

Section 2. Hazards Identification

OSHA/HCS status This material is considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200)

Classification of the OSHA - CARCINOGENICITY (Inhalation) - Category 1A

substance or mixture (See section 16 for OSHA, IARC, and NTP carcinogen listings)

OSHA - SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure)

(respiratory tract) (inhalation) - Category 1

Signal Word Danger

Hazard Statement

Avoid generating dust. Do not breathe dust. Do not eat, drink, or smoke when using this product. Do not use until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/ face protection. EPK Kaolin is slippery when wet. In case of inadequate ventilation, wear respiratory protection. If exposed or concerned, get medical advice/attention. Store EPK Kaolin in a dry location. Dispose in accordance with all applicable regulations.

EPK Kaolin is a naturally occurring mineral, which may contain amounts of crystalline silica typically 0.1-1.0%

• CARCINOGENICITY: This product contains crystalline silica. Repeated, prolonged inhalation of dust may cause delayed lung injury which may result in silicosis or pneumoconiosis. The International Agency For Research On Cancer in its publication, "IARC Monographs On the Evaluation Of The Carcinogenic Risk To Humans – Silica, Some Silicates, Coal Dust and Para-aramid Fibrils" - Volume 68, 1997, has concluded that there is sufficient evidence of the carcinogenicity of crystalline silica in humans, and has, therefore, classified crystalline silica in, Group 1, Carcinogenic to Humans. The National Toxicology Program's ("NTP's") Ninth Annual Report on Carcinogens 2000, lists crystalline silica (respirable) as a substance which is known to be a human carcinogen. In humans, a number of studies have found an association between lung cancer and exposure to dust containing respirable crystalline silica. In many of these studies, though not all, lung cancer risks were elevated and could not be explained by confounding factors such as cigarette smoking or arsenic or random inhalation. While the IARC working group concluded there was sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or crystobalite, it noted that carcinogenicity in humans was not detected in all circumstances studied.





GHS label elements / Hazard pictograms





Health Hazard (carcinogen)

Irritant
(skin,eye & respiratory tract)

Precautionary Statements

May Cause CANCER (inhalation)
Causes damage to organs (lungs/respiratory
tract) through prolonged or repeated exposure
Causes skin, eye, and respiratory tract irritation
May cause allergy or asthma or breathing
difficulties if inhaled



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Hazardous Materials Identification System

HAZARD INDEX

PERSONAL PROTECTION INDEX

- 4 Severe Hazard 3 Serious Hazard
- Minimal Hazard
 An asterisk (*) or other designation corresponds to additional information on a data sheet or separate chronic effects notification.
- 2 Moderate Hazard on a data shee chronic effects notific



Unclassified Hazards

Slippery when wet.

% of ingredients with unknown acute toxicity

None Known

Section 3. Composition / Information on Ingredients

Substances:

Chemical	Formula	CAS & IC	SC Numbers	Percentage	
Kaolinite	Al ² O ³ .2SiO ² .2H ² O	CAS # 1332-58-7	ICSC # 1144	99.0% - 99.9%	
Quartz (Crystaline Silica)	SiO ²	CAS # 14808-60-7	ICSC # 0808	0.1% - 1.0%	

Section 4. First-Aid Measures

First-aid measures general	Never give anything by mouth to an unconscious person.
and the median co Seneral	If you feel unwell, seek medical attention.
First-aid measures after inhalation	Inhaling dust may cause discomfort in the chest, shortness of breath and coughing. Prolonged inhalation may cause chronic health effects. Prolonged or repeated inhalation of crystalline silica liberated from this product may cause silicosis and may cause cancer. In cases of gross inhalation, remove victim to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, have qualified medical personnel administer oxygen. Get prompt medical attention.
First-aid measures after skin contact	Remove contaminated clothing. Wash affected area with soap and warm water. Obtain medical attention if irritation persists.
First-aid measures after eye contact	Flush the eyes immediately with large amounts of running water, lifting the upper and lower lids occasionally. Remove contact lenses if present and easy to do so. If irritation persists, or for embedded foreign body, get immediate medical attention.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Unlikely to be toxic by ingestion. If discomfort persists, seek medical attention.
Most Important Symptoms and Effects, Bo	oth Acute and Delayed:
Symptoms/injuries	Causes damage to organs through prolonged or repeated exposure (inhalation).





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Symptoms/injuries after inhalation	May cause cancer by inhalation. Dust from this product may cause irritation to the respiratory tract.
Symptoms/injuries after skin contact	Prolonged contact with large amounts of dust may cause mechanical irritation.
Symptoms/injuries after eye contact	Prolonged contact with large amounts of dust may cause mechanical irritation.
Symptoms/injuries after ingestion	If a large quantity has been ingested: intestinal blockage. Gastrointestinal irritation.
Chronic symptoms	Repeated or prolonged exposure to respirable crystalline silica dust will cause lung damage in the form
	of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.
	Acute silicosis can be fatal.

If exposed or concerned, get medical advice and attention.

Section 5. Fire-Fighting Measures

NFPA



National Fire Protection Association (U.S.A.)

Suitable extinguishing media	This product is not combustible.	
	Use extinguishing media appropriate for surrounding fire.	
Unsuitable extinguishing media	No restrictions on extinguishing media for this material.	
Special hazards arising from the substance or	This material is not flammable and does not support fire. The paper	
mixture	bags and bulk bags containing the material are flammable.	
Hazardous thermal decomposition products	This material does not contain hazardous decomposition products.	
Special protective actions	Product can become slippery when wet.	
for fire-fighters		
Special protective equipment	Fire-fighters should wear appropriate protective equipment.	
for fire-fighters		

Section 6. Accidental Release Measures

Use of personal precautions Avoid inhalation of dry clay dust. Wear appropriate personal

protective clothing and respiratory protection when cleaning up dry

clay dust.

Emergency procedures There are no emergency procedures required for this material. Avoid

release to the environment, including sewers, surface or ground

water.

Methods and Materials

For containment Kaolin waste is not reactive, flammable or biodegradable. Use

conventional means; e.g. sweeping, vacuum, etc. Use caution on

wet floor, as it may be slippery.

Clean up procedures Clean up residue with high efficiency particulate vacuum. Scoop

spilled material into appropriate containers for disposal. Use methods to minimize dust. Avoid sweeping spilled dry material. If





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sweeping of a contaminated area is necessary, use a dust suppressant agent.

Section 7. Handling & Storage

Precautions for safe handling

Paper bags weigh 50 lbs. Use proper lifting techniques to avoid physical injury. Bulk bags weigh 2000 lbs. Use proper equipment to lift. Do not breathe dust. Do not eat, drink, or smoke when using this product. Use methods to minimize dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.

Recommendations on the conditions for safe storage

No special storage considerations, but keep in a dry location.

Section 8. Exposure Controls / Personal Protection			
Chemical Name	CAS Numbers	Occupational Exposure Limits	
Quartz,(Crystalline Silica)SiO ²	CAS#14808-60-7	ACGIH TLV: TWA 0.025 mg/m³ (respirable) OSHA PEL: .05 mg/m³, calculated as an 8-hr TWA (respirable) CAL OSHA PEL: .05 mg/m³, calculated as an 8-hr TWA (respirable) NIOSH REL: 0.05 mg/m³ as determined by a full shift simple up to a 10-hour working day, 40 hours per week	
Kaolinite Al ² O ³ .2SiO ² .2H ² O	CAS#1332-58-7	ACGIH TLV: TWA 2 mg/ m³ (respirable) / particulate matter containing no asbestos and <1% crystalline silica (respirable) OSHA PEL: TWA 5 mg/m³ (respirable) OSHA PEL: TWA 15 mg/m³ (total) CAL OSHA PEL: TWA 2 mg/ m³ (respirable)	

Appropriate engineering Controls

Clay in moist form poses no health risk and no inhalation risk.

In the event that dust is generated, use local exhaust ventilation or other engineering controls as required to maintain exposures below applicable occupational exposure limits (TLV). Ensure that dust handling systems are designed in a manner to prevent the escape of dust into the work area. Ensure compliance with applicable exposure limits.

Recommendations for personal protective measures

Local Exhaust: When mixing, dry sanding or grinding clay products, use sufficient local exhaust to reduce the level of respirable dust to the applicable standards set forth in Section III. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice," latest edition.

Respiratory Protection: Dust is generated when working with dry kaolin. To minimize exposure to dust and/or crystalline silica, the mixing of dry clay products should be conducted with sufficient ventilation.

Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet suppression, ventilation, and process enclosure. When such controls are not feasible, NIOSH/MSHA approved respirators must be worn in accordance with a respiratory protection program which meets OSHA/MSHA requirements as set forth at 29 CFR1910.134 and ANSI Z88.2-1080"Practices for Respiratory Protection".





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Eye Protection: Use NIOSH/OSHA approved safety glasses with side shields. Face shields can also be used when mixing dry kaolin. Wear tight fitting dust goggles when excessively (visible) dusty conditions are present or are anticipated. NIOSH recommends that contact lenses not be worn when working with material containing crystalline silica dust.

Skin Protection: Use gloves and/or protective clothing if abrasion or allergic reactions are experienced.

Work/Hygienic Practices: Avoid creating and breathing dust. Always observe good personal hygiene measures, such as washing after handling material and before eating, drinking, and/or smoking. Routinely wash work clothes and protective equipment to remove contaminates. Wear NIOSH/MSHA approved dust mask when working in dust conditions. Food, beverages, and smoking materials should NOT be in the work area.



Protective Clothing Pictograms

Section 9. Physical & Chemical Properties

Physical State	Powder or prill
Appearance	Buff color in dry form
Odor	Earthy odor when wet
Odor Threshold	Not Applicable
рН	5.5-6.5
Solubility in Water	None
Melting Point	1740-1785°C
Freezing Point	< 0 °C (<32°F)
Specific Gravity / Relative Density	2.65 g/cc
Evaporation Rate	No data available
Flash Point	Not Applicable
Auto-Ignition Temperature	Not Applicable
Decomposition Temperature	Not Applicable
Flammability	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Explosive Limits	Not Applicable
Viscosity	Not Applicable
Partition Coefficient: n-octanol/water	Not Applicable
Initial Boiling Point & Boiling Range	Not Applicable

Section 10. Stability & Reactivity

Reactivity Hazardous reactions will not occur under normal conditions.

Chemical stability Stable at standard temperature and pressure.

Possibility of hazardous reactions Hazardous polymerization will not occur.

Conditions to avoid Avoid generating dust

Incompatible materialsNone known





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Hazardous decomposition products None known

Section 11. Toxicological Information

Routes of Exposure	Inhalation of dry clay dust, Ingestion
Acute Effects	
Inhalation	Aspiration of high concentrations of dry clay dust may cause mechanical irritation and discomfort. Long term exposure may cause chronic effects.
Eye Contact	Not a primary eye irritant. May cause mechanical irritation.
Skin Contact/Irritation	Not a skin irritant. Not absorbed through skin.
Sensitization	Not a sensitizer
Ingestion	Ingestion may cause gastrointestinal irritation

Section 11. Toxicological Information	Section 11.	Toxicologica	l Information
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Chronic Effects	
OSHA Carcinogen	Lung cancer – Silica has been classified by OSHA as a human
	lung carcinogen.
Mutagenic Effects	None Known
Teratogenic Effects	None Known
Developmental Toxicity	None Known
Effects of Silicosis	Symptoms of Silicosis
Bronchitis/Chronic Obstructive Pulmonary	Shortness of breath; possible fever.
Disorder.	Fatigue; loss of appetite.
Tuberculosis – Silicosis makes an individual	Chest pain; dry, nonproductive cough.
more susceptible to TB.	Respiratory failure, which may eventually lead to death.
Scleroderma – a disease affecting skin,	
blood vessels, joints and skeletal muscles.	
Possible renal disease.	
Remarks	
Carcinogenicity	"Calcinced 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 carginocinity in humans
	and/or animals."
	"The International Agency for Research on Cancer (IARC) has





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	determined that crystalline silica (quartz) is carcinogenic to
	humans (Group 1). Refer to IARC Monograph 100C (2011). The
	National Toxicology Program (NTP) classified respirable silica as
	"known to be a human carcinogen" (12th Report on
	Carcinogens, 2011). The American Conference of Governmental
	Industrial Hygienists (ACGIH) classifies crystalline silica, quartz,
	as a suspected human carcinogen (A2).
Numerical Measures of toxicity	None Known

OSHA, IARC, and NTP Carcinogen Classifications					
Chemical with Carcinogen Potential		CAS#	OSHA	IARC	NTP
Quartz, (Crystalline Silica)	SiO2	CAS # 14808-60-7	Yes	Yes - Group 1	Yes

Section 12. Ecological Information (non-mandatory)

Ecotoxicity	None Known
Biochemical oxygen demand (BOD5)	None Known
Chemical oxygen demand(COD)	None Known
Products of Biodegradation	None Known
Toxicity of the products of Biodegradation	None Known
Bioaccumulation Potential	None Known
Potential to move from soil to groundwater	None Known
Other adverse effects	None Known

13. Disposal Considerations

Personal Protection Refer to Section 8: "Recommendations for Personal Protective Measures"

when disposing of ceramic waste.

Appropriate disposal containers

Standard waste disposal containers – no special requirements.

Appropriate disposal methods

Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. In most cases, this is normal waste disposal. The generation of waste should be avoided or minimized. Dispose of nonrecyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Avoid dispersal of spilled material and runoff

and contact with soil, waterways, drains, and sewers.

Physical and chemical properties

Dry clay dust should be placed in a sealed container

that may affect disposal

or in a manner that reduces or eliminates the release of the product.

Packaging should be recycled before disposal.

Sewage disposal

Do not dispose of into sinks or toilets. They will clog. Never dispose of this

product into a sewer system.

Special precautions for landfills

There are no special precautions for disposal in a landfill.





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or incineration activities

This product is non-combustible and is not suitable for incineration.

Section 14. Transportation Information

Regulatory Information	UN Number	UN Proper Shipping Name	Transport Hazard Class	Packing Group Number	Bulk Transport Guidance	Special Precautions
DOT	Not regulated	-	-	-	-	-
Classification						
TDG	Not regulated	-	-	-	-	-
Classification						
ADR/RID Class	Not regulated	-	-	-	-	-
IMDG Class	Not regulated	-	-	-	-	-
IATA-DGR	Not regulated	-	-	-	-	-
Class						

Section 15. Regulatory Information

TSCA – Toxic Substances Control Act - EPA	Quartz and other chemicals are listed in the			
	TSCA Chemical Substance Inventory			
California Prop. 65	<u>WARNING:</u> This product can expose you to crystalline silica,			
	which is known to the State of California to cause cancer. For			
	more information go to www.P65Warnings.ca.gov.			
SARA/Title III	This material contains no substances at or above the reporting			
(Emergency Planning & Community	threshold under Section 313,			
Right-to-Know Act)	Based on available data.			

Section 16. Other Information

Definitions

ASTM means American System of Testing and Materials

OSHA means Occupational Safety & Health Administration

IARC means International Agency for Research on Cancer

NTP means National Toxicology Program

HCS means Hazardous Communication Standard

CAS means Chemical Abstract Service

ACGIH means American Conference of Governmental Industrial Hygienists

CAL-OSHA means California OSHA, most CAL-OSHA standards defer to the federal OSHA standards

OSHA means Occupational Safety & Health Administration

OSHA PEL means OSHA Permissible Exposure Limit

OSHA STEL means spot exposure for a duration of 15 minutes, that cannot be repeated more than 4 times per day, with at least 60 minutes between exposure periods

TWA means Time Weighted Average (average exposure on the basis of an 8h/day, 40h/week work schedule) **TLV** means Threshold Limit Value - American Conference of Governmental Industrial Hygienists (ACGIH)

Three types of TLVs for chemical substances as defined by the ACGIH are:

1. **TLV-TWA** - Time weighted average - average exposure on the basis of an 8h/day, 40h/week work





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schedule.

- 2. **TLV-STEL** Short-term exposure limit spot exposure for a duration of 15 minutes, that cannot be repeated more than 4 times per day, with at least 60 minutes between exposure periods.
- 3. TLV-C Ceiling limit absolute exposure limit that should not be exceeded at any time.

This SDS is in compliance with The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) – June 1, 2015. This data sheet is subject to change without notice.

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