

# Safety Data Sheet (SDS)

Laguna Clay Co. GHS - United States

# Section 1 - Identification

Product Name MGBB GERSTLEY BORATE BLEND

**Common Names** Raw Material, Gerstley Borate

**Company /** Laguna Clay Co. **Manufacturer** 14400 Lomitas Ave.

City of Industry, CA 91746

(626) 330-0631 fax (626) 333-7694

info@lagunaclay.com

**Emergency Number** 911

**Product Use** Non-exhaustive list: pottery, artware, ceramic building materials

**Restrictions on Use** None applicable

# **Section 2 - Hazardous Identification**

# **Contains Crystalline Silica ≥1% Respirable**

GHS label elements / Hazard pictograms



Signal Word: Danger

OSHA/HCS status Clay mixture in dry form is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200)

Classification of the substance or mixture Carcinogenicity (inhalation) - Category 1A and Specific organ toxicity (Repeated Exposure) (Respiratory tract through inhalation) - Category 1

**Hazard Statement** (H350) Cancer Hazard. Contains quartz (crystalline silica) which may

cause cancer. Risk of cancer depends upon duration and level of exposure

to the dust. Not an acute hazard.

(H332) Prolonged inhalation of dust may cause lung injury. Inhalation of

high concentrations of dust may cause mechanical irritation and

discomfort of the respiratory tract. Repeated exposure may have chronic

effects.

(H316 + H320 + H335) Can cause skin, respiratory, and eye irritation.

**Precautionary** (P261) Avoid breathing dust.

**Statements** (P280) Wear protective gloves, eye, and respiratory protection.

# **Section 3 - Composition / Information on Ingredients**

**Substances/Mixtures** Mixture - A trade secret claim is made for this item.

Component	CAS #	Approx % by Wt.	Approx % by Wt.	
Borates		10-25%		
Calcuium Oxide	1305-78-8	10-25%		
Crystaline Silica - quartz	14808-60-7	5-10%		
Talc - Steatite	14807-96-6	<5%		
Magnesium Oxide	1309-48-4	<5%		

# Section 4 - First Aid Measures

### **First-Aid Measures**

**Eye Contact** If eye contact occurs, rinse immediately with plenty of water. If irritation persists, seek

medical attention.

**Skin Contact** If irritation occurs, wash thoroughly with water. If it persists, seek medical attention.

Inhalation Move victim to fresh air in well ventilated area. If coughing or irritation persists, seek

medical attention.

**Ingestion** Consult physician and/or obtain competent medical assistance.

### Symptoms and Effects, both Acute and Delayed

**Eye Contact** Prolonged contact with large amounts of dust may cause mechanical irritation.

**Skin Contact** Prolonged contact with large amounts of dust may cause mechanical irritation.

Inhalation Inhalation of high concentrations of dry clay dust may cause mechanical irritation and

discomfort. Long term exposure may cause chronic effects (see section 11).

**Ingestion** Large quantities ingested may cause gastrointestinal irritation.

**Chronic Symptons** Repeated or prolonged exposure to respirable crystalline silica dust may cause lung

damage in the form of silicosis. Symptoms will include shortness of breath, fever fatigue,

loss of appetite, chest pain, dry non-productive cough.

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# Section 5 - Fire Fighting Measures

General Fire Hazards Clay mixture in dry or moist form is not flammable and does not support fire. The

paper bags or plastic bags and cardboard boxes containing the mixture are

flammable.

**Extinguishing Media**Use appropriate extinguishing media for surrounding fire.

Chemical hazards

from fire

Clay mixture does not contain hazardous decomposition products.

Protective actions and equipment for

fire-fighters

Clay mixture and packaging can become slippery when wet. Fire-fighters should wear appropriate protective equipment.

# **Section 6 - Accidental Release Measures**

Clean-up Methods If appropriate, use gentle water spray to wet down and minimize dust generation.

**Personal Precautions** 

and Personal

**Protective Equipment** 

Wear appropriate protective equipment and clothing during clean-up. When dry sweeping use NIOSH approved respirators when dust levels exceed exposure

limits.

Environmental

Precautions

Clay is a natural mineral product mixture and will not cause adverse effects to the

water system other than turbidity from suspended particles.

**Emergency procedures** 

& Methods of Containment

There are no emergency procedures required for this mixture. Place dry clay dust

in a sealed container for re-use or proper disposal.

# Section 7 - Handling & Storage

**Precautions for safe** 

handling

Use proper lifting techniques to avoid physical injury.

Recommendations on the conditions for safe

storage

No special storage considerations. Do not store moist clay mixture  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ 

below freezing point (< 0 °C or<32°F).

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# **Section 8 - Exposure Counts / Personal Protection**

### **Airborne Exposure Limits**

Hazardous Ingredient	Wt. % Aprox.	CAS#	OSHA PEL* / ACGIH TLV*		
Borates	10-25%	/ 1.0mg/m3 TWA			
Calcuium Oxide	10-25%	1305-78-8	5mg/m3 / 2mg/m3		
Crystaline Silica - quartz	5-10%	14808-60-7	0.1mg/m3 / $0.025$ mg/m3 respirable		
Talc - Steatite	<5%	14807-96-6	2mg/m3 / 2mg/m3 respirable		
Magnesium Oxide	<5%	1309-48-4	5mg/m3 / 5mg/m3 respirable		

### **Engineering Measures**

Clay mixture in moist form poses no inhalation health risk. Once clay mixture has dried, there may be dust generated by cleaning and working processes. 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).

### **Personal Protective Equipment (PPE)**

### Respiratory

Dust is generated when working with dry clay mixture. To minimize exposure to dust and/or crystalline silica, cutting or sanding 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 sanding, 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 requirements as set forth at 29 CFR1910.134 and ANSI Z88.2-1080 "Practices for Respiratory Protection". In most cases, a disposable N-95 Particulate Respirator is sufficient.

#### Eyes

Use of NIOSH/OSHA approved safety glasses with side shields is recommended. Face shields should also be used when dry sawing clay products. 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 crystalline silica dust.

# **Skin and Body**

Protective Clothing is not essential. Use gloves and/or protective clothing if abrasion or allergic reactions are experienced.

### **Section 9 - Physical & Chemical Properties**

Appearance	dry powder	Evaporation Rate	No data available
Color Physical state pH Odor	varies Solid 6 - 8 Earthy odor Not Applicable	Solubility in water at 100 C Decomposition temperature Viscosity Flashpoint Boiling Point	None Not Applicable Not Applicable Not Applicable Not Applicable
Odor threshold Melting Point	> 1200 °C (>2150°F)	Flammability Vapor Pressure (mm HG)	Not Applicable Not Applicable
Freezing Point Relative density/Specific Gravity	< 0 °C (<32°F) ~2.6 gm/cc	Vapor Density Partition coefficient Auto-ignition temp	Not Applicable Not Applicable Not Applicable

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# Section 10 - Stability & Reactivity

Reactivity No dangerous reactions are known under normal conditions of use

**Chemical Stability** Stable at standard temperature and pressure. No stabilizers

required to maintain chemical stability. Safety issues - Mold may form in plastic bag (moist clay mixture) after several months of

shelf life.

**Possibility of Hazardous Reactions** 

and Conditions to Avoid

None known

Incompatibility / Hazardous decomposition products

None known

# **Section 11 - Toxicological Information**

Primary Route of Exposure: Skin, Eye Contact, Inhalation and Ingestion

### **Specific Organ Toxicity - Single Exposure**

Target organs include ears, skin, respiratory system, and gastrointestinal tract.

### **Specific Organ Toxicity - Repeated Exposure**

Causes damage to eyes, skin, respiratory system, and gastrointestinal tract through prolonged or repeated exposure.

### **Acute Short-Term Exposure Effects**

May cause eye irritation, skin irritation, respiratory tract irritation, and gastrointestinal tract irritation. Inhalation of high concentrations of dry clay dust may cause mechanical irritation and discomfort. Long term exposure may cause chronic effects.

# **Chronic Long Term Exposure Effects**

Silica has been classified by OSHA as a human lung carcinogen. Repeated or prolonged exposure of respirable crystalline silica dust may cause lung damage in the form of silicosis.

Effects of silicosis include bronchitis/chronic obstructive pulmonary disorder, increased susceptibility to tuberculosis, scleroderma (a desease affecting skin, blood vessels, joints and skeletal muscles), and possible renal disease. Acute silicosis can be fatal.

### **Related Symptoms**

Symptons will include shortness of breath, fever, fatigue, loss of appetite, chest pain, dry non-productive cough.

# Medical Conditions Aggravated by Exposure:

Individuals with pre-existing allergies, eye disorders, skin disorders, respiratory disorders and/or gastrointestinal disorders may have increased susceptibility to the effects of exposure.

### OSHA, IARC, and NTP Carcinogen Classifications

Chemicals with Carcinogen Potential	CAS #	OSHA	IARC	NTP
Crystaline Silica - quartz	14808-60-7	YES	YES - 1	YES
Talc - Steatite	14807-96-6	NO	YES - 1	NO
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety & Health Administration			
1 = Carcinogenic to humans	inogenic to humans NTP - National Toxicology Program			
2A = Probably carcinogenic to humans				
2B = Possibly carcinogenic to humans				

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# 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

# Section 13 - Disposal Configurations (non-mandatory)

Personal Protection Refer to section 8 for proper PPE when disposing of waste material.

**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

Dry clay dust should be placed in a sealed container or in a manner

regional or local authority requirements.

Physical and chemical properties

that may affect disposal that reduces or eliminates the release of the product. Moist clay has no

special requirements.

Sewage disposal Do not dispose of into sinks or toilets. Never dispose of this product

into a sewer system.

Special precautions for landfills

or incineration activities

There are no special precautions for disposal in a landfill. This product

is non-combustible and is not suitable for incineration.

# Section 14 - Transporation Information (non-mandatory)

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

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# Section 15 - Regulatory Information (non-mandatory)

#### TSCA - Toxic Substances Control Act - EPA

Quartz and other chemicals are listed in the TSCA Chemical Substance Inventory.

#### California Prop. 65 WARNING

This product contains a chemical known to the State of California to cause cancer. (Prop. 65 - California Health and Safety Code Section 2549 Et Seq).

### SARA/Title III (Emergency Planning & Community Right-to-Know Act

This mixture contains no substances at or above the reporting threshold under section 313, based on available data.

# Section 16 - Other Information (non-mandatory)

### **Definitions**

**ACGIH** American Conference of Governmental Industrial Hygienists

**CAS** Chemical Abstract Service

CAL-OSHA California Occupational Safety & Health Administration

IARC International Agency for Research on Cancer
OSHA Occupational Safety & Health Administration
MSHA Mine Safety and Health Administration

NIOSH National Institute of Occupational Safety and Health

NTP National Toxicology Program

HCSHazardous communication standardOSHA PELOSHA permissible exposure limitSTELShort-term exposure limitTLVThreshold limit valueTWATime weighted average

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

**TLV-TWA** Time weighted average - average exposure on the basis of an 8h/day,

40h/week work schedule.

**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.

**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), and is subject to revsion at any time without notice. Its current revision date is: 7/19/2023

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