

In case of emergency call:

Chemtrec: 1-800-424-9300

Outside US: +1-703-527-3887

IONE MINERALS, INC.

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. Product and Company Identification

Product Name: KAOLIN CLAY

Manufacturer/Supplier: Ione Minerals

8631 State Highway 124 PO Box 785

Ione, CA 95640

Phone: (209) 274 – 2471 Fax: (209) 274-4102

Common Name Synonyms: Clay, China Clay, Kaolin

Material Uses: Additive filler in rubber, paper and paint. Used in ceramics. Used in spray for agriculture.

2. Hazard(s) Identification

Hazard Classification: WARNING! Cancer Hazard. Contains quartz which can cause cancer. Risk of cancer depends upon duration

and level of exposure. Not an acute hazard. May cause mechanical eye or skin irritation in high concentrations.

Prolonged inhalation may cause lung injury.

Signal Word: WARNING!

Hazard / Precautionary Statement:

Medical conditions aggravated by exposure to the product: Asthma and chronic lung disease.

Carcinogenicity information: Crystalline silica is listed by IARC as a Group 1 Carcinogen "sufficient evidence of carcinogenicity in humans",

and is listed by NTP as K, "Known To Be A Human Carcinogen".

Information pertaining to particular dangers for man and environment: May cause cancer by inhalation.

Danger of serious damage to health by prolonged exposure.

PRODUCT CONTAINS CRYSTALLINE SILICA, "a chemical known to the State of California to cause cancer." Prolonged or repeated inhalation of dust from products containing crystalline silica can cause silicosis or cancer.



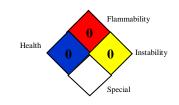


Description of Hazards not Otherwise Classified:

Can cause mechanical irritation to eyes and skin

Hazardous Material Information System (U.S.A.)

Health	*	0
Flammability		0
Physical Hazards		0
Personal Protection		Е
* Chronic Potential		



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3. Composition / Information on Ingredients

Substances:

Chemical Name: Hydrous Alumina Silicate

Common Name Synonyms: Kaolin Clay and some quartz

Chemical Abstracts Services (CAS): Kaolin #1332-58-7

Quartz #14808-60-7

Impurities and Stabilizing Additives: None

Mixtures:

Kaolin Clay with minor amounts of naturally occurring quartz sand.

Hydrous Alumina Silicate 1332-58-7 80 – 100% Quartz Sand (Crystalline Silica / Free Silica) 14808-60-7 10 - 20%

Chemicals where a trade secret is claimed: N/A

4. First Aid Measures

Eye Contact Flush open eye with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Skin Contact Immediately wash with soap and water. Rinse thoroughly.

Inhalation If high concentration is inhaled and mechanical irritation or discomfort occurs, allow victim to rest in a well ventilated area. Seek

medical attention if irritation persists.

Ingestion This product is intended for industrial applications; in the unlikely event that this product is swallowed, consult a physician if any

adverse medical conditions occur.

5. Fire Fighting Measures

Flammability of the Product Non-Flammable

Flash Point Not Applicable

Auto-Ignition Temperature Not Applicable

Hazardous Combustion Products Not Applicable

Fire Hazards in the Presence

Of Various Substances Not considered to be flammable. Product will not burn, use appropriate extinguishing media for surrounding

fires.

Suitable Extinguishing Agents Use fire-fighting measures that suit the environment.

Protective Equipment No special measures required.

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6. Accidental Release Measures

Small Spill Use a vacuum to clean up spillage. If appropriate, use gentle water spray to wet down and minimize dust

generation. Place in a sealed container.

Large Spill Use a shovel to put the clay into a convenient waste disposal container. Finish cleaning by spreading water on

the remaining clay dust and dispose of according to local and regional authority requirements. Avoid excessive

dust generation. Use respiratory protection in high dust conditions.

7. Handling and Storage

Handling

Precautions for

Safe Handling Avoid generating dust. Use respiratory protection when any dust is created. Clean up spills promptly. Handle

in ways which minimize dust generation. Ensure good ventilation / exhaust at the workplace. Prevent formation

of dust

Information about Protection

Against Explosions and Fires Keep respiratory protective device available.

Storage

Requirements to be Met by

Storerooms and Receptacles No special requirements

Information About Storage in

One Common Storage Facility Not required

Further Information About

Storage Conditions Store product inside, out of extreme weather conditions.

Specific End Use(s) No further relevant information available.

Storage Class Class according to regulation on flammable liquids – Not applicable.

8.	Exposure Controls and Personal Protection		
	Additional information about design of technical systems: No further data: see section 7.		
	Control Parameters		
	Components with limit values that require monitoring at the workplace:		
	14808-60-7 crystalline silica (quartz)		
	ACGIH TLV	0.05 R mg/m3	
	NIOSH REL	0.05* mg/m3 *Respirable Dust	
	OGILA DEL	Short-term Value 10**mg/m3	
	OSHA PEL	Long-term Value 30*mg/m3	
		As S _i O2, *Total Dust **Respirable Dust	

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Personal Protective Equipment







General Protective and

Hygienic Measures

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Store protective clothing separately.

Breathing Equipment

NIOSHA approved respirators should be used if dust is present. A respiratory protection program should be implemented if exposures exceed OSHA PELs.

Protection of Hands

No special skin protection should be required. However, if irritation is experienced, use gloves and/or other

skin covering.

Eye Protection Safety glasses with side shields recommended.

9. **Physical and Chemical Properties**

Appearance

Color

Form Solid (Powdered Solid)

White to Buff

Not applicable

Odor No specific odor

Odor Threshold Not determined

pH-Value 3.75

Change in Condition

Ignition Temperature

Melting Point / Melting Range Undetermined **Boiling Point / Boiling Range** Undetermined

Flash Point Not applicable

Flammability (solid, gaseous) Non Flammable

Auto Igniting Product is not selfigniting

Danger of Explosion Product does not present an explosion hazard

Explosion Limits

Not determined Lower Upper Not determined Vapor Pressure Not applicable

Density

2.65 g/cm3 **Relative Density Vapor Density** Not applicable **Evaporation Rate** Not applicable

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Solubility in / Miscibility

With Water Insoluble

Partition Coefficient

(in-octanol/water) Not applicable

Viscosity

DynamicNot applicableKinematicNot applicable

Solvent Content

Organic Solvents None Solids Content None

Other Information No further relevant information available

10. Stability and Reactivity

Reactivity No further relevant information available

Chemical Stability This product is stable

Thermal Decomposition /

Conditions to be Avoided Not applicable

Possibility of Hazardous Reactions No dangerous reactions known

Conditions to Avoid No further relevant information available

Incompatible Materials No further relevant information available

Corrosivity Not available

11. Toxicological Information

<u>Information on Toxicological Effects</u> (See Hazardous Identification (Section 2))

Acute Toxicity

LD/LC50 Values that are

Relevant for Classification 7631-86-9 silicon dioxide, chemically prepared

Oral LD50 10,000 mg/kg (rat)

Primary Irritant Effect

On the Skin May have mechanical irritation
On the Eye May have mechanical irritation

Summary Toxicological Information CRYSTALLINE SILICA: Overexposure to respirable crystalline silica dust can cause silicosis, a form of

progressive pulmonary fibrosis. "Inhalable" crystalline silica (quartz) is listed by IARC as a Group 1 carcinogen (lung) based on "sufficient evidence" in occupationally exposed humans and sufficient evidence in

animals. Crystalline silica is also listed by the NTP as a known human carcinogen.

Excessive exposure to any dust may aggravate pre-existing respiratory conditions.

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Carcinogenic Categories

IARC (International Agency for Research on Cancer)

Group 1 Carcinogenic to humans
Group 2A Probably carcinogenic to humans
Group 2B Possibly carcinogenic to humans

Group 3 Not classifiable as to its carcinogenicity to humans

Group 4 Probably not carcinogenic to humans

14808-60-7 Quartz (S_i02) 1

NTP (National Toxicology Program)

14808-60-7 Quartz (S_i02) K

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed

12. Ecological Information

Toxicity

Aquatic Toxicity No further relevant information available Persistence and Degradability No further relevant information available

Behavior in Environmental Systems

Bioaccumulative Potential No further relevant information available Mobility in Soil No further relevant information available

Additional Ecological Information

General Notes Not known to be hazardous to water

Results of PBT and vPvB Assessment

PBT Not applicable vPvB Not applicable

13. Disposal Considerations

Recommendation for Disposal of Product

As sold, this product is not RCRA hazardous. Final used condition must be evaluated prior to disposal. Dispose of waste product in accordance with Federal, State and Local regulations. Dust created during demolition of used product may contain crystalline silica.

Recommendation for Disposal of Uncleaned Packaging

Reuse, recycle or treat as industrial waste.

For further information, please refer to Section 8 (Exposure Controls/Personal Protection) of this SDS.

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14. Transport Information

Land Transport -

DOT Bulk or Non-Bulk

Air Transport (IATA)

Not Regulated

Sea Transport (IMO) Not Regulated

TDG (Canada) Not Regulated

15. Regulations

SARA 313 Toxic Chemicals No material listed in the components in section 2 of this SDS is on the SARA 313 list

SARA 302 Extremely Hazardous

Substances No material listed in the components in section 2 of this SDS is on the SARA 302 list

TSCA (Toxic Substance Control Act)

This substance or all the ingredients of this product are on the Chemical Substances Inventory of the

Toxic Substances Control Act (TSCA Inventory). The presence on this list does not require any legal

reporting.

WHMIS Classification

 $Class\ D-Division\ 2-\\$

Sub Division AUntested mixture containing a very toxic material

Class D - Division 2 -

Sub Division B Untested mixture containing a toxic material

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.

Hazard Symbol(s) Toxic

Hazard-Determine Components

of Labeling Crystalline silica (quartz)

Risk Phrases May cause cancer by inhalation.

Danger of serious damage to health by prolonged exposure.

Safety Phrases When using do not eat or drink.

Do not breathe dust.

After contact with skin, wash immediately with soap and water.

Wear suitable, protective clothing and gloves.

In case of accident of if you feel unwell, seek medical advice immediately.

Special Labeling of

Certain Preparations PRODUCT CONTAINS CRYSTALLINE SILICA "a chemical known to the State of California to cause

cancer." Prolonged or repeated inhalation of dust from products containing crystalline silica can cause silicosis

or cancer.

National Regulations The following ingredients are known in the State of California to be a cancer risk (Proposition 65):

14808-60-7 crystalline silica (quartz)

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16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

♦ *Creation date:* 02/27/2015