

IONE MINERALS, INC.

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1.	Product and Company Identification		
	Product Name: Manufacturer/Supplier:	GREENSTRIPE CLAY Ione Minerals 8631 State Highway 124 PO Box 785 Ione, CA 95640 Phone : (209) 274 – 2471 Fax: (209) 274-4102	In case of emergency call: Chemtrec: 1-800-424-9300 Outside US: +1-703-527-3887
	Common Name Synonyms:	Clay, Fireclay, Kaolin, Kaolinite	
	Material Uses:	Used in ceramics, adhesives and stucco	
2.	Hazard(s) Identification		
	Hazard Classification:	WARNING! Cancer Hazard. Contains quartz which can cause and level of exposure. Not an acute hazard. May cause mechan Prolonged inhalation may cause lung injury.	
	Signal Word:	WARNING!	
	Hazard / Precautionary Statement:		
	Medical conditions aggrava	ated by exposure to the product: Asthma, chronic lung disease, and	nd skin irritation
	Carcinogenicity informatio	n: Crystalline silica is listed by IARC as a Group 1 Carcinogen "su and is listed by NTP as K, "Known To Be A Human Carcinoger	fficient evidence of carcinogenicity in humans", ".
	Information pertaining to j	particular dangers for man and environment: May cause cancer health by prolonged exposure.	by inhalation. Danger of serious damage to
		RYSTALLINE SILICA, "a chemical known to the State of Califo acts containing crystalline silica can cause silicosis or cancer.	rnia to cause cancer." Prolonged or repeated
	Description of Hazards not Otherwise Classified:	Can cause mechanical irritation to eyes and skin	
	Hazardous Material Information System (U.S.A.)		Flammability
	Health Flammability Physical Hazards Personal Protection * Chronic Potential	* 0 0 0 E	Health 0 0 Instability Special
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3.	8. 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:		
	Mixture of the substances listed below with	n nonhazardous additions	
	Hydrous Alumina Silicate	1332-58-7 80-100%	
	Crystalline Silica (Quartz)	14808-60-4 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.
	<u>Storage</u>	
	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:		
	1332-58-7 hydrous alumina silicate		
	ACGIH TLV	2 R mg/m3	
	NIOSH REL	10*; 5** mg/m3 *Total Dust ** Respirable fraction	
	OSHA PEL	15*; 5** mg/m3 *Total dust ** Respirable fraction	
	14808-60-7 crystalline silica (quartz)		
	ACGIH TLV	0.05 R mg/m3	



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NIOSH REL	0.05* mg/m3
NIOSII KLL	*Total dust
	Short-term value: 10** mg/m3
OSHA PEL	Long-term value 30* mg/m3
	As SiO2; *Total dust **Respirable dust
Personal Protective I	<u>Aquipment</u>
General Protective a	ad the second
Hygienic Measures	Keep away from foodstuffs, beverages and feed.
,8	Wash hands before breaks and at the end of work.
	Store protective clothing separately.
Breathing Equipmen	
	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.
	Safety glasses with side shields recommended.

	operties	
Appearance Form Color	Solid (Powdered Solid) White to Buff	
Odor	No specific odor	
Odor Threshold	Not determined	
pH-Value	4.5	
Change in Condition Melting Point / Melting Range Boiling Point / Boiling Range	Undetermined Undetermined	
Flash Point	Not applicable	
Flammability (solid, gaseous)	Non-flammable	
Ignition Temperature	Not applicable	
Auto Igniting	Product is no selfigniting	
Danger of Explosion	Product does not present an explosion hazard	
Explosion Limits Lower Upper	Not determined Not determined	
Vapor Pressure	Not available	
Density Relative Density Vapor Density Evaporation Rate	2.65 gr/cm ³ Not applicable Not applicable	(Continued on page 5)



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Solubility in / Miscibility With Water	Insoluble
Viscosity Dynamic	Not applicable
Kinematic	Not 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	
	Information on Toxicological Effects	(See Hazards 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 On the Eye	May have mechanical irritation 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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Group 1	Carcinogenic to hu			
Group 2A		Probably carcinogenic to humans Possibly carcinogenic to humans Not classifiable as to its carcinogenicity to humans		
Group 2B				
Group 3	Not classifiable as			
Group 4	Probably not carcin	inogenic to humans		
14808-60-7	Quartz (S _i 02)	1		
NTP (National Toxicology Prog	ram)			
14808-60-7	Ouartz (S _i 02)	K		

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
Other Adverse Effects	At present there are no ecotoxicological assessments

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	Not Regulated	
	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 A	Untested 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 account information required by the CPR.	rdance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the	
	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.	5. 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.
	٠	<i>Creation date:</i> 02/27/2015