



# IONE MINERALS, INC.

## SAFETY DATA SHEET / MATERIAL SAFETY DATA SHEET

Revised: 05/05/2015

### 1. 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

**In case of emergency call:**  
 Chemtrec: 1-800-424-9300  
 Outside US: +1-703-527-3887

**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.

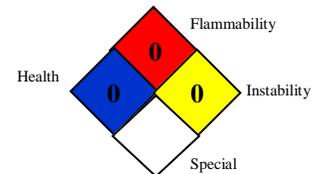


**Description of Hazards not Otherwise Classified:** Can cause mechanical irritation to eyes and skin

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

|                     |   |   |
|---------------------|---|---|
| Health              | * | 0 |
| Flammability        |   | 0 |
| Physical Hazards    |   | 0 |
| Personal Protection |   | E |

\* Chronic Potential



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**Trade Name: KAOLIN CLAY**

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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**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | Flush open eye with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.  |
| <b>Skin Contact</b> | Immediately wash with soap and water. Rinse thoroughly.   |
| <b>Inhalation</b>   | 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. |
| <b>Ingestion</b>    | 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**

|   |   |
|---|---|
| <b>Flammability of the Product</b>                        | Non-Flammable   |
| <b>Flash Point</b>  | Not Applicable  |
| <b>Auto-Ignition Temperature</b>                          | Not Applicable  |
| <b>Hazardous Combustion Products</b>                      | Not Applicable  |
| <b>Fire Hazards in the Presence Of Various Substances</b> | Not considered to be flammable. Product will not burn, use appropriate extinguishing media for surrounding fires. |
| <b>Suitable Extinguishing Agents</b>                      | Use fire-fighting measures that suit the environment.   |
| <b>Protective Equipment</b>                               | No special measures required.   |

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**6. Accidental Release Measures**

|                    |  |
|--------------------|--|
| <b>Small Spill</b> | 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.   |
| <b>Large Spill</b> | 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<br>*Respirable Dust  |
| OSHA PEL  | Short-term Value 10**mg/m3<br>Long-term Value 30*mg/m3<br>As S <sub>i</sub> O <sub>2</sub> , *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**

|                                      |  |
|--------------------------------------|--|
| <b>Appearance</b>                    |  |
| <b>Form</b>                          | Solid (Powdered Solid)                       |
| <b>Color</b>                         | White to Buff                                |
| <b>Odor</b>                          | No specific odor                             |
| <b>Odor Threshold</b>                | Not determined                               |
| <b>pH-Value</b>                      | 3.75   |
| <b>Change in Condition</b>           |  |
| <b>Melting Point / Melting Range</b> | Undetermined                                 |
| <b>Boiling Point / Boiling Range</b> | Undetermined                                 |
| <b>Flash Point</b>                   | Not applicable                               |
| <b>Flammability (solid, gaseous)</b> | Non Flammable                                |
| <b>Ignition Temperature</b>          | Not applicable                               |
| <b>Auto Igniting</b>                 | Product is not selfigniting                  |
| <b>Danger of Explosion</b>           | Product does not present an explosion hazard |
| <b>Explosion Limits</b>              |  |
| <b>Lower</b>                         | Not determined                               |
| <b>Upper</b>                         | Not determined                               |
| <b>Vapor Pressure</b>                | Not applicable                               |
| <b>Density</b>                       |  |
| <b>Relative Density</b>              | 2.65 g/cm <sup>3</sup>                       |
| <b>Vapor Density</b>                 | Not applicable                               |
| <b>Evaporation Rate</b>              | Not applicable                               |

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|   |   |
|---|---|
| <b>Solubility in / Miscibility With Water</b>   | Insoluble                                 |
| <b>Partition Coefficient (in-octanol/water)</b> | Not applicable                            |
| <b>Viscosity</b>                                |   |
| <b>Dynamic</b>                                  | Not applicable                            |
| <b>Kinematic</b>                                | Not applicable                            |
| <b>Solvent Content</b>                          |   |
| <b>Organic Solvents</b>                         | None                                      |
| <b>Solids Content</b>                           | None                                      |
| <b>Other Information</b>                        | No further relevant information available |

**10. Stability and Reactivity**

|  |   |
|--|---|
| <b>Reactivity</b>                                | 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**

|  |   |
|--|---|
| <b><u>Information on Toxicological Effects</u></b>         | (See Hazardous Identification (Section 2))  |
| <b>Acute Toxicity</b>                                      |   |
| <b>LD/LC50 Values that are Relevant for Classification</b> | 7631-86-9 silicon dioxide, chemically prepared<br>Oral LD50 10,000 mg/kg (rat)  |
| <b>Primary Irritant Effect</b>                             |   |
| <b>On the Skin</b>   | May have mechanical irritation  |
| <b>On the Eye</b>  | May have mechanical irritation  |
| <b>Summary Toxicological Information</b>                   | 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.<br><br>Excessive exposure to any dust may aggravate pre-existing respiratory conditions. |

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**Carcinogenic Categories**

**IARC (International Agency for Research on Cancer)**

|                 |  |
|-----------------|--|
| <b>Group 1</b>  | Carcinogenic to humans                               |
| <b>Group 2A</b> | Probably carcinogenic to humans                      |
| <b>Group 2B</b> | Possibly carcinogenic to humans                      |
| <b>Group 3</b>  | Not classifiable as to its carcinogenicity to humans |
| <b>Group 4</b>  | Probably not carcinogenic to humans                  |

14808-60-7 Quartz (S,02) 1

**NTP (National Toxicology Program)**  
14808-60-7 Quartz (S,02) 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

**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**

|  |               |
|--|---------------|
| <b>Land Transport – DOT Bulk or Non-Bulk</b> | Not Regulated |
| <b>Air Transport (IATA)</b>                  | Not Regulated |
| <b>Sea Transport (IMO)</b>                   | Not Regulated |
| <b>TDG (Canada)</b>                          | Not Regulated |

**15. Regulations**

|  |  |
|--|--|
| <b>SARA 313 Toxic Chemicals</b>                | No material listed in the components in section 2 of this SDS is on the SARA 313 list  |
| <b>SARA 302 Extremely Hazardous Substances</b> | No material listed in the components in section 2 of this SDS is on the SARA 302 list  |
| <b>TSCA (Toxic Substance Control Act)</b>      | 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. |

|  |   |
|--|---|
| <b>WHMIS Classification</b>                  |   |
| <b>Class D – Division 2 – Sub Division A</b> | Untested mixture containing a very toxic material |
| <b>Class D - Division 2 – Sub Division B</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.**

|                         |       |  |  |
|-------------------------|-------|--|--|
| <b>Hazard Symbol(s)</b> | Toxic |  |  |
|-------------------------|-------|--|--|

|  |                             |
|--|-----------------------------|
| <b>Hazard-Determine Components of Labeling</b> | Crystalline silica (quartz) |
|--|-----------------------------|

|                     |  |
|---------------------|--|
| <b>Risk Phrases</b> | May cause cancer by inhalation.<br>Danger of serious damage to health by prolonged exposure. |
|---------------------|--|

|                       |  |
|-----------------------|--|
| <b>Safety Phrases</b> | When using do not eat or drink.<br>Do not breathe dust.<br>After contact with skin, wash immediately with soap and water.<br>Wear suitable, protective clothing and gloves.<br>In case of accident or if you feel unwell, seek medical advice immediately. |
|-----------------------|--|

|   |  |
|---|--|
| <b>Special Labeling of Certain Preparations</b> | 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. |
|---|--|

|                             |  |
|-----------------------------|--|
| <b>National Regulations</b> | The following ingredients are known in the State of California to be a cancer risk (Proposition 65):<br>14808-60-7 crystalline silica (quartz) |
|-----------------------------|--|

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**IONE MINERALS, INC.**

**Revised: 05/05/2015**

*Trade Name:* **KAOLIN CLAY**

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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