SECTION 1  PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Diatomaceous Earth
SYNONYMS: n/a
PRODUCT CODES: 2201, 2202, 2203
MANUFACTURER: SR Aquaristik
ADDRESS: 902 S. Randall Rd. Suite C #308, St. Charles, IL 60174
EMERGENCY PHONE: 630-524-4612
EMAIL CONTACT: info@sraquaristik.com
CHEMICAL FORMULA: SiO2

SECTION 2  COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

COMPONENTS

<table>
<thead>
<tr>
<th>OTHER INGREDIENTS:</th>
<th>Cristobalite</th>
<th>Quartz</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS NO.</td>
<td>14464-46-1</td>
<td>14808-60-7</td>
</tr>
<tr>
<td>% WT</td>
<td>@</td>
<td>@</td>
</tr>
<tr>
<td>OVER 3%</td>
<td>yes</td>
<td>yes</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients
Cristobalite LD50: Not available. LC50: Not available. Quartz LD50: Not available. LC50: Not available. LCL [Human] - Route - Inhalation; Dose: 300ug/m3/10Y

SECTION 3  HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Appearance: Powdered Solid
Odor: none

POTENTIAL HEALTH EFFECTS

EYES: Irritation may occur
SKIN: Irritation may occur
INGESTION: Slight irritation may occur
INHALATION: Hazardous in case of inhalation (lung irritant)

ACUTE AND CHRONIC HEALTH HAZARDS:

Very hazardous in case of inhalation. CARCINOGENIC EFFECTS:

Classified 1 (Proven for human.) by IARC, 1 (Clear evidence.) by NTP, + (Proven.) by OSHA, + (Proven.) by NIOSH [Cristobalite].

Classified A2 (Suspected for human.) by ACGIH [Cristobalite].

Classified 1 (Proven for human.) by IARC, 1 (Clear evidence.) by NTP, + (Proven.) by OSHA, + (Proven.) by NIOSH [Quartz].

Classified A2 (Suspected for human.) by ACGIH [Quartz].

The substance may be toxic to lungs, upper respiratory tract. Repeated or prolonged exposure to the substance can produce target organs damage.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Upper respiratory and lung disease such as bronchitis, emphysema, and exposure asthma.

CARCINOGENICITY

OSHA: n/a
IARC: n/a
ACGIH: n/a
OTHER: n/a
NTP: n/a

SECTION 4 FIRST AID MEASURES

EYES: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

SKIN: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

INGESTION: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

any

EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS

none

SPECIAL EXPOSURE HAZARDS IN A FIRE

none

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Dust respirator required

OTHER INFORMATION

Powerful oxiders may cause fire. (cristobalite)
SECTION 6  ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Follow protective measures provided in sections 5 and 8
Keep away materials and products which are incompatible with product specified in section 10.

ENVIRONMENTAL PRECAUTIONS: Rinse spilled product to dilute areas of direct contact.

METHODS FOR CLEAN UP: Wear suitable clothing and protective equipment. Recover or mop up excess material and reuse wherever possible. Absorb unusable product with suitable material and dispose of in accordance with Section 13.

SECTION 7  HANDLING AND STORAGE

HANDLING: Keep locked up. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Keep away from incompatibles such as oxidizing agents.

STORAGE: Keep container tightly closed. Do not store above 24°C. Keep away from incompatible products specified in section 10.

SECTION 8  EXPOSURE CONTROLS/PERSOANL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

VENTILATION: Local exhaust, mechanical exhaust recommended.

RESPIRATORY PROTECTION: Dust respirator required.

EYE PROTECTION: ANSI approved safety glasses with side protection or goggles.

SKIN PROTECTION: Lab coat & rubber gloves.

HYGIENIC PRACTICES: Handle in accordance with good hygiene and safety practice.

EXPOSURE LIMITS: Cristobalite TWA: 0.05 (mg/m3) from ACGIH (TLV) [United States] Inhalation Respirable. TWA: 0.05 (mg/m3) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 0.3 (mg/m3) [United Kingdom (UK)] Inhalation TWA: 0.15 (mg/m3) [Canada] Inhalation Respirable. TWA: 0.05 (mg/m3) [Canada] Inhalation Respirable. Quartz TWA: 0.05 (mg/m3) from ACGIH (TLV) [United States] [1999] Inhalation Respirable. TWA: 0.1 (mg/m3) from OSHA (PEL) [United States] Inhalation Respirable. TWA: 0.3 (mg/m3) [United Kingdom (UK)] Inhalation Respirable. TWA: 0.2 (mg/m3) [Australia] Inhalation TWA: 0.1 (mg/m3) [Canada] Inhalation Respirable. Consult local authorities for acceptable exposure limits.
SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION
APPEARANCE: Solid Crystals
ODOR: none

IMPORTANT HEALTH SAFETY AND ENVIRONMENTAL INFORMATION
pH: n/a
BOILING POINT n/a
FLASH POINT n/a
MELTING POINT n/a
FLAMMABILITY (SOLID, GAS) non flammable
EXPLOSIVE non-explosive
PROPERTIES
VAPOR PRESSURE: n/a
VAPOR DENSITY: n/a
BULK DENSITY n/a
EVAPORATION RATE: n/a
SOLUBILITY IN WATER: Insoluble in water
DECOMPOSITION TEMPERATURE n/a
VISCOSITY: n/a
SPECIFIC GRAVITY 2.3

SECTION 10  STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.
CONDITIONS TO AVOID: Incompatibles, dust generation
INCOMPATIBILITY (MATERIAL TO AVOID): Reactive with oxidizing agents
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: none known
HAZARDOUS POLYMERIZATION: n/a
CONDITIONS TO AVOID: n/a

SECTION 11  TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA:
Routes of Entry: Inhalation, Ingestion
Toxicity to animals: n/a
Chronis Effects on Humans: CARCINOGENIC EFFECTS: Classified 1 (Proven for human.) by IARC, 1 (Clear evidence.) by NTP, + (Proven.) by OSHA, + (Proven.) by NIOSH [Cristobalite]. Classified A2 (Suspected for human.) by ACGIH [Cristobalite]. Classified 1 (Proven for human.) by IARC, 1 (Clear evidence.) by NTP, + (Proven.) by OSHA, + (Proven.) by NIOSH [Quartz]. Classified A2 (Suspected for human.) by ACGIH [Quartz]. May cause damage to the following organs: lungs, upper respiratory tract
**SECTION 12**

**ECOTOXICITY EFFECTS:**

**ACUTE TOXICITY:**  none known  
**MOBILITY:**  not applicable  
**PERSISTENCE AND DEGRADABILITY:**  none known  
**BIOACCUMULATIVE POTENTIAL:**  is not known to accumulate

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**WASTE TREATMENT:**  Dispose of within current local and state regulations.  
**PACKAGING TREATMENT:**  Consult federal, state, and local regulations regarding the proper disposal of emptied containers.  
**RCRA HAZARD CLASS:**  n/a

**SECTION 14**

**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:**  Chemicals Not Otherwise Indexed (NOI)  
**HAZARD CLASS:**  Not Regulated  
**ID NUMBER:**  n/a  
**LABEL STATEMENT:**  none

**WATER TRANSPORTATION**

**PROPER SHIPPING NAME:**  Chemicals Not Otherwise Indexed (NOI)  
**HAZARD CLASS:**  Not Regulated  
**ID NUMBER:**  n/a  
**LABEL STATEMENT:**  none

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:**  Chemicals Not Otherwise Indexed (NOI)  
**HAZARD CLASS:**  Not Regulated  
**ID NUMBER:**  n/a  
**LABEL STATEMENT:**  none

Other Toxic Effects on Humans: Hazardous in case of inhalation (lung irritant). Slightly hazardous in case of skin (irritant), of ingestion.

Special Remarks on Toxicity to Animals: May contain up to 44% crystalline silica which may cause cancer (tumorigenic). Crystalline silica has been identified by IARC as a class 1 carcinogen.

Special Remarks on other Toxic Effects of Humans: Acute Potential Health Effects: Skin: No adverse health effects expected. Eyes: May cause eye irritation. Ingestion: No adverse health effects expected. Inhalation: Affects respiration and irritates respiratory tract. Acute pneumoconiosis from overwhelming exposure to silica dust has occurred. Coughing and irritation of throat are early symptoms. Inhalation of quartz is classified as a human carcinogen. Risk of cancer depends upon duration and level of exposure. May also affect liver. Chronic exposure to quartz can also cause silicosis, a form of lung scaring that can cause shortness of breath, reduced lung function. May also affect blood. Aggravation of Pre-existing Conditions: Inhalation may increase the progression of tuberculosis; susceptibility is apparently not increased. Persons with impaired respiratory function may be more susceptible to the effects of this substance. Smoking can increase the risk of lung injury.

**ECOLOGICAL INFORMATION**

**ACUTE TOXICITY:**  none known  
**MOBILITY:**  not applicable  
**PERSISTENCE AND DEGRADABILITY:**  none known  
**BIOACCUMULATIVE POTENTIAL:**  is not known to accumulate

**DISPOSAL CONSIDERATIONS**

**WASTE TREATMENT:**  Dispose of within current local and state regulations.  
**PACKAGING TREATMENT:**  Consult federal, state, and local regulations regarding the proper disposal of emptied containers.  
**RCRA HAZARD CLASS:**  n/a

**TRANSPORT INFORMATION**

**U.S. DEPARTMENT OF TRANSPORTATION**

**PROPER SHIPPING NAME:**  Chemicals Not Otherwise Indexed (NOI)  
**HAZARD CLASS:**  Not Regulated  
**ID NUMBER:**  n/a  
**LABEL STATEMENT:**  none

**WATER TRANSPORTATION**

**PROPER SHIPPING NAME:**  Chemicals Not Otherwise Indexed (NOI)  
**HAZARD CLASS:**  Not Regulated  
**ID NUMBER:**  n/a  
**LABEL STATEMENT:**  none

**AIR TRANSPORTATION**

**PROPER SHIPPING NAME:**  Chemicals Not Otherwise Indexed (NOI)  
**HAZARD CLASS:**  Not Regulated  
**ID NUMBER:**  n/a  
**LABEL STATEMENT:**  none

ECOTOXICITY EFFECTS:

ACUTE TOXICITY: none known  
MOBILITY: not applicable  
PERSISTENCE AND DEGRADABILITY: none known  
BIOACCUMULATIVE POTENTIAL: is not known to accumulate

DISPOSAL CONSIDERATIONS:

WASTE TREATMENT: Dispose of within current local and state regulations.  
PACKAGING TREATMENT: Consult federal, state, and local regulations regarding the proper disposal of emptied containers.  
RCRA HAZARD CLASS: n/a

TRANSPORT INFORMATION:

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Chemicals Not Otherwise Indexed (NOI)  
HAZARD CLASS: Not Regulated  
ID NUMBER: n/a  
LABEL STATEMENT: none

WATER TRANSPORTATION

PROPER SHIPPING NAME: Chemicals Not Otherwise Indexed (NOI)  
HAZARD CLASS: Not Regulated  
ID NUMBER: n/a  
LABEL STATEMENT: none

AIR TRANSPORTATION

PROPER SHIPPING NAME: Chemicals Not Otherwise Indexed (NOI)  
HAZARD CLASS: Not Regulated  
ID NUMBER: n/a  
LABEL STATEMENT: none
Federal & State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute:
- Cristobalite
- Quartz
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute:
- Cristobalite
- Quartz
Pennsylvania RTK: Cristobalite; Quartz
Diatomaceous Earth Florida: Cristobalite; Quartz
Minnesota: Cristobalite; Quartz
Massachusetts RTK: Cristobalite; Quartz
New Jersey: Cristobalite; Quartz; Diatomaceous Earth
TSCA 8(b) inventory: Diatomaceous earth; Quartz; Cristobalite

DSCL (EEC)
R36/37- Irritating to eyes and respiratory system. R45- May cause cancer.
S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label. S53- Avoid exposure - obtain special instructions before use.

SECTION 16
OTHER INFORMATION

KEEP OUT OF REACH OF CHILDREN

Although the information and recommendations set forth in this sheet are believed to be correct as of the date hereof, SR Aquaristik makes no representation as to the completeness or accuracy of such information and recommendations. SR Aquaristik shall in no event be responsible for any damages of whatsoever nature directly or indirectly resulting from the publication or use of or reliance upon such information and recommendations. You are encouraged to advise anyone working with or exposed to such products of the information contained herein.

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