SECTION 1 - Chemical Product and Company Identification
Trade Name(s): Ryolex® - All Grades
CAS #: 93763-70-3
Chemical Name: Sodium Potassium Aluminum Silicate
Formula: Mixture
Product Use: Insulation, Construction, Industrial, and Horticultural Applications

Manufacturer: SILBRICO CORPORATION
Address: 6300 River Road City: Hodgkins State: Illinois Zip: 60525
Telephone: 708/354-3350
Emergency: 708/354-3350

Supplier’s Name (if different)
Street Address
City, Province/State, Postal/Zip Code
Emergency Telephone Number
Fax Number

Preparation date of SDS: January 9,2015
SDS Prepared By: Kenneth Wiener (Phone: 310-377-7977)

SECTION 2 – Hazards Identification
Signal word: None
GHS Pictogram: None
Route of entry:
Skin contact: Repeated or prolonged contact may cause irritation
Skin absorption: N/A
Eye contact: May irritate or injure eyes, mechanically

Inhalation: Upper Respiratory Irritant: May aggravate pre-existing respiratory conditions. Levels of Respirable Crystalline Silica in Ryolex, if present at all, are undetectable. Because it is known that long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis), OSHA has published revised exposure limits. The current Action Level (AL) and Permissible Exposure Limit (PEL) as an average during 8 hours of continuous exposure are 25 µg/m3 (Air) and 50 µg/m3 (Air), respectively.

Potential Health Effects: See above regarding long term exposure: skin irritation, silicosis and eye irritation
SECTION 3 – Composition/Information on Ingredients
Product Description/Components: Expanded perlite powder or granules, CAS# 93763-70-3

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>CAS#</th>
<th>ACGIH TLV, mg/cu.m</th>
<th>NIOSH, mg/cu.m</th>
<th>OSHA PEL, mg/cu.m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>&lt;0.1</td>
<td>0.025 (Respirable)</td>
<td>0.05 (Respirable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LD₅₀: Not Available</td>
<td>LC₅₀: Not Available</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4 – First Aid Measures
Skin Contact: Wash off with soap and water
Eye Contact: Flush eyes with generous amounts of water for at least 5 minutes. Remove contact lenses if easy to do so. Continue rinsing.
Inhalation: Remove to fresh air. Seek medical attention if victim is not breathing or uncomfortable.
Ingestion: Do not induce vomiting. Seek medical attention if victim is not breathing or uncomfortable.

SECTION 5 - Fire Fighting Measures
Flammable: No
Means of Extinction: Use extinguishing media appropriate for surrounding material that is on fire or could be set on fire.
Flashpoint (°C) and Method (oc or cc): N/A
Upper Flammable Limit (% by volume): N/A
Lower Flammable Limit (% by volume): N/A
Autoignition Temperature (°C): N/A
Explosion Data - Sensitivity to Impact: N/A
Explosion Data - Sensitivity to Static Discharge: None; silicates are considered non-combustible dust
Hazardous Combustion Products: N/A
NFPA: Health: 0, Flammability: 0, Reactivity: 0, Other: None
HMIS Ratings: Health: *(See SDS), Flammability: 0, Reactivity: 0, Personal Protection: E

SECTION 6 - Accidental Release Measures
Leak and Spill Procedures: Normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended. Wetting spilled material with water may control dust and make clean up easier.

SECTION 7 - Handling and Storage
Handling Procedures and Equipment: Avoid creating unnecessary dust.
Storage Requirements: Store with other dusty materials, away from products that could be affected by dust.

SECTION 8 - Exposure Control/Personal Protection
Exposure Limits
ACGIH TLV: 10 mg/m³ total dust
          3 mg/m³ respirable dust
OSHA PEL: 15 mg/m³ total dust
          5 mg/m³ respirable dust
Engineering Controls
• General: Good housekeeping rules apply
• Local Exhaust from work stations using this material
Recommended Personal Protective Equipment:
- Plastic or Rubber Gloves if skin irritation occurs
- Respirator – NIOSH/OSHA approved dust mask adequate for contaminant concentrations encountered
- Eye protection recommended
- Disposable footwear for frequent handling of this material
- Coveralls for frequent handling of this material

SECTION 9 – Physical and Chemical Properties
Physical State: Solid powder or granules
Odor and Appearance: White to off white powder or granules with no odor
Odor Threshold (ppm): N/A
Specific Gravity: 2.35
Vapor Density (air=1): N/A
Vapor Pressure (mmHg): N/A
Evaporation Rate: N/A
Boiling Point (°C): N/A
Freezing Point (°C): N/A
pH: 6.5 – 7.5, as 10% slurry in distilled water
Coefficient of Water/Oil Distribution: N/A
Solubility in Water: Negligible

Visual Detection Method Only

SECTION 10 - Stability and Reactivity
Chemically Stable?: Yes
Incompatibility with other substances?
Yes: Hydrofluoric acid (HF)
Reactivity, and under what conditions?: Toxic silicon tetrafluoride gas will result with contact with hydrofluoric acid.
Hazardous Decomposition Products: See above

SECTION 11 - Toxicological Information
Effects of Acute Exposure: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), or in case of inhalation (irritant).

Effects of Chronic Exposure:
Irritancy of Product: Potential irritant for Skin Sensitization,
Respiratory Sensitization: Upper Respiratory Irritant: May aggravate pre-existing respiratory conditions.
Levels of Respirable Crystalline Silica in Ryolex, if present at all, are undetectable. Because it is known that long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis), OSHA has published revised exposure limits. The current Action Level (AL) and Permissible Exposure Limit (PEL) as an average during 8 hours of continuous exposure are 25 µg/m³ (Air) and 50 µg/m³ (Air), respectively.
Carcinogenicity: These products contain less than 0.1% crystalline silica, and low percentages of particles of respirable size, hence present very low risk.
IARC: Not reviewed
ACGIH: PNOS (Particulates Not Otherwise Specified), Not carcinogenic
Reproductive Toxicity: Not available
Teratogenicity: Not established
Embryotoxicity: Not available
Mutagenicity: Ames: Not available
SECTION 12 – Ecological Information
Aquatic Toxicity: Low hazard for usual industrial or commercial handling. Approved for use in soils.

SECTION 13 – Disposal Considerations
Waste Disposal: Dispose of this product in accordance with all applicable local, state and Federal regulations.

SECTION 14 – Transport Information
Special Shipping Information
DOT: No special requirements
IMO: Non-hazardous
ICAO: Non-hazardous

SECTION 15 – Regulatory Information
WHMIS CLASSIFICATION: D2B (Toxic)
OSHA: Label as required by Hazard Communication Standard 29 CFR 1910.1200 (f) and applicable state and local laws and regulations
TSCA: Included as a naturally occurring material
CANADA DSL: Included or exempt
EUROPE: Exempt from REACh as a naturally occurring mineral, not chemically modified. Status confirmed in Annex V Guidance Document Version 1.1, November 2012

SECTION 16 – Other Information
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Information provided in this document is believed to be accurate as of January 9, 2015 and may be subject to change without notice. The information is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation with respect to such information is intended or given. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.