



**NFPA 704 HAZARD SYMBOL**  
*See NFPA 704 for detailed explanation*



**SAFETY DATA SHEET**

No.: 140 Rev. No.: 14.2  
 Date Revised: 11/13/2018

**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. Long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis).

Ingestion: LD50 not established, presumed over 10,000 mg/kg

Emergency Overview: The fine particle size products represent inhalation hazards that can readily be controlled with appropriate dust protection equipment. Avoid processes that generate unnecessary dust.



WHMIS Symbol (D2B):

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

<u>Hazardous</u> <u>Ingredients</u>	<u>CAS#</u>	<u>%</u>	<u>ACGIH</u> <u>TLV, mg/cu.m.</u>	<u>NIOSH, mg/cu.m</u>	<u>OSHA PEL, mg/cu.m</u>
Quartz	14808-60-7	<0.1	0.025 (Respirable)	0.05 (Respirable)	0.1 (Respirable)
	LD50: Not Available		LC50: Not Available		

### 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/m<sup>3</sup> total dust

3 mg/m<sup>3</sup> respirable dust

OSHA PEL: 15 mg/m<sup>3</sup> total dust

5 mg/m<sup>3</sup> 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 respirator 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. Long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis)

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

IATA: Not regulated as dangerous goods

**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 October 20, 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.