



NFPA FIRE HAZARD SYMBOL
 See NFPA 704 for detailed explanation

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

Preparation date of MSDS: September 29th, 2014

MSDS Prepared By: Silbrico Corp (Phone: 708-354-3350)

SECTION 2 – Hazards Identification

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)
	LD ₅₀ : Not Available		LC ₅₀ : 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. 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.

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: High airborne concentrations of dusts are susceptible to explosions.

Hazardous Combustion Products: N/A

NFPA: Health: 0, Flammability: 0, Reactivity: 0, Other: None

HMIS Ratings: Health: *(See MSDS), 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 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

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 MSDS contains all of the information required by CPR.

Information provided in this document is believed to be accurate as of June 1, 2013 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.