



# SAFETY DATA SHEET

## Section 1-Identification

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Product Identifier: Expanded Perlite (All grades)  
Chemical Name: Sodium Potassium Silicate  
Product Use: Horticulture aggregate, Insulation, filter aid, light weight aggregate, environmental Applications  
Manufacturer info: Midwest Perlite Telephone: 920-731-2671  
4280 W. Parkway Blvd. Fax: 920-731-2600  
Grand Chute, WI 54913 Email: [keith@midwestperlite.com](mailto:keith@midwestperlite.com)  
Origin of Raw Material: Cornerstone Industrial Minerals, Inc.  
Tucker Hill Pit, 35 miles north of Lakeview, Oregon USA

## Section 2-Hazards Identifications

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Classification: Considered a nuisance dust only  
Signal word: None required  
Pictograms: None required  
Hazard Statements: None required  
HNOC: None required  
Supplemental Statements:  
Inhalation may cause throat irritation resulting in coughing and sneezing.  
Direct eye contact may cause irritation.  
Direct skin contact may cause drying.  
Supplemental Recommendations:  
Avoid creating unnecessary dust, & wear NIOSH approved dust protection mask.  
Wear NIOSH approved eye protection.  
Dispose of waste in accordance with applicable local, state, & federal regulations.  
Apply skin creams and lotions to prevent drying.  
\*This product is a mechanical irritant, and is not expected to produce any chronic health effects from acute exposures.

## Section 3-Composition/Information on Ingredients

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Perlite CAS# 93763-70-3 100%  
Quartz: none detected

## Section 4-First-Aid measures

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Skin contact: Wash gently with soap and warm water to remove dust. Use moisture renewing lotions if dryness occurs.  
Eye Contact: Do not rub or scratch your eyes; dust particles may cause the eye to be scratched. Flush eyes with generous quantities of water or eye rinse solution. Consult physician if irritation persists.  
Inhalations: Pre-existing upper respiratory and lung diseases may be aggravated. Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing & general throat irritation. Chronic inhalation of dust should be avoided. **Remove to fresh air. Blow nose to evacuate dust. Drink water to clear throat.**  
Ingestion: Product is not intended to be ingested or eaten. Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach. **If this product is ingested, irritation of the gastrointestinal tract may occur, and should be treated symptomatically. Drink generous amounts of water to reduce bulk and drying effects.**  
Notes to Physician: This product is a mechanical irritant, and is not expected to produce any chronic health effects from acute exposures. Treatment should be directed toward removing the source of irritation with symptomatic treatment as necessary.

## Section 5 - Fire-fighting measures

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Flash Point:	Non-flammable	Rate of Burning:	N/A
Flammable Limit:	N/A	Explosive hazard:	N/A
Auto Ignition:	N/A	Special firefighting procedures:	N/A
General Fire Hazard:	There is no potential for fire or explosion.		

## Section 6 - Accidental release measures

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Clean up Procedures:	Vacuum clean dust if sweeping is necessary, use a dust suppressant such as water. Wastes are not hazardous. Comply with state and local regulations for disposal of these products.
Containment Procedures:	Do not dry sweep dust accumulation or use compressed air for clean-up. These procedures will help minimize potential exposures.
Environment:	Non-hazardous as defined by RCRA (40CFR part 261). Dispose in bulk or containers according to local dump requirements. No special treatment required.

## Section 7- Handling and Storage

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Handling Procedures & Equipment:	Minimize dust generation. Use appropriate respiratory and eye protection.
Storage Requirements:	Store in a dry place and protected from weather to maintain packaging integrity and product quality.
Incompatible Materials:	Hydrofluoric acid

## Section 8- Exposure Control and Personal Protection

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Exposure Limits:	OSHA PEL – 15 mg/m <sup>3</sup>	ACGIH TLV - 10 mg/m <sup>3</sup>
Engineering Controls:	Adequate ventilation and appropriate local exhaust where needed to keep dust level below exposure limits.	

### **Personal protective equipment:**

EYE:	NIOSH/OSHA tight fighting safety glasses or goggles should be used to protect eyes.
SKIN:	No special equipment is required.
REPIRATORY:	If inadequate ventilation is available an appropriate NIOSH/OSHA approved dust respirator should be used.

## Section 9- Physical & Chemical Properties

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Physical State:	Solid		
Appearance/odor:	White to off white granules or Powder. No distinct odor.		
Specific gravity:	2.2-2.4	pH:	6-9 (10% slurry in water)
Vapor Density/pressure:	N/A	Evaporation Rate:	N/A
Freezing/Boiling Point:	N/A	Coefficient of water/oil:	N/A
Solubility in water:	slightly soluble	Melting Point:	2100°F-2300°F
Distribution:	N/A	Bulk Density:	less than 10 lbs /cubic foot

## Section 10- Stability and Reactivity

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Stability:	Stable under normal use and conditions
Reactivity Hazards:	Hydrofluoric acid
Hazardous decomposition products:	Reacts with hydrofluoric acid to produce toxic silicon tetrafluoride.
Hazardous Polymerization:	None

## Section 11- Toxicological Information

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Acute Toxicity Information: None

LD50/LC50/LDLo: Not established

Symptoms: Inhalation may cause throat irritation resulting in coughing or sneezing and may aggravate pre-respiratory conditions.  
Direct eye contact will cause mechanical irritation.  
Direct skin contact may cause drying and roughness.  
Ingestion – no symptoms known  
No aspiration hazard

No known delayed effects of short and long-term exposure.

No mutagenic effects

No carcinogenic effects

No reproductive toxicity (reproductive, developmental, teratogenic)

No specific target organ toxicity (single or repeated exposure)

## Section 12- Ecological Information

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Eco toxicity: No data available for this product. This material is not expected to produce significant eco toxic significant upon exposure to aquatic organisms and aquatic systems.

## Section 13- Disposal Considerations

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General Product Information:

This product, as supplied, is not regulated as a hazardous waste by EPA under RCRA regulations. Comply with state and local regulations for disposal. IF you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

## Section 14- Transportation Information

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Proper Name: Expanded Perlite

DOT: Not Regulated

TDG/IMO/ICAO: Not Regulated

## Section 15- Regulatory Information

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OSHA: Perlite is NOT considered a hazardous or toxic substance.

WHMIS: N/A

SERA: Not Listed

TSCA: Not Listed

## Section 16- Other Information

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### Important Safety Notice:

The information provided in this document is correct to best of our knowledge as of the publication date. This Safety Data Sheet (SDS) relates only to the specific material described herein and does not relate to use in combination with any other material or substance or in any process. Because of the use of this information and the conditions of use of this product are not within the control of Midwest Perlite, Inc., it is the user's obligation to determine the conditions of safe use of this product. Users of this product should study this SDS and become aware of the products hazards and safety information before using this product. Users should also notify their employees, agents, and contractors regarding information contained in this SDS and any product hazards and safety information in order to provide for safe use of this product. No warranty or quality specification is implied by this information. It is the responsibility of the user to handle the designated material in a safe manner and comply with all applicable local, State, and Federal regulations.