

**MATERIAL SAFETY DATA SHEET****HMIS Ratings****NFPA**

Health	*	Health	*
Flammability	0	Flammability	0
Reactivity	0	Reactivity	0
Personal Protection	E	Personal Protection	0

HMIS Ratings: 0 = Minimal Hazard E = Dust Respirator  
 NFPA Ratings: 0 = Insignificant 1 = Slight  
 Both: \* = Refer to data on MSDS

**I. PRODUCT IDENTIFICATION**

Trade Name: #4 FILTER PRECOAT  
 Chemical Name: Sodium Potassium Aluminum Silicate  
 Formula: Mixture  
 CAS Number: 93763-70-3 or 130885-09-5  
 Manufacturer: MIDWEST PERLITE INC  
 4280 W. Parkway Blvd.  
 Appleton, WI 54913  
 Telephone: (920) 731-2671  
 Fax: (920) 731-2600

**II. PRODUCT INGREDIENTS**

<u>Ingredient Name</u>	<u>Cas Number</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Perlite, expanded	93763-70-3	100	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (total) 3 mg/m <sup>3</sup> (respirable)
Perlite, ore	130885-09-5	100	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (total) 3 mg/m <sup>3</sup> (respirable)

This product may contain crystalline silica (quartz) at below detectable levels (<0.1%) CAS No. 14808-60-7; OSHA PEL 0.1 mg/m<sup>3</sup> (respirable).

**III. PHYSICAL DATA**

Appearance: Dry, white powder.	Physical State: Solid
Vapor Density (air=1): N/A	Odor: Odorless
Water solubility: Negligible	Boiling point: N/A
% Volatile by volume: N/A	pH: Neutral
Specific Gravity: 2.33	Vapor Pressure: N/A (NM Hg/70 °F)

**IV. FIRE AND EXPLOSION DATA**

Flash Point:	Non flammable
Flammable Limits:	N/A
Extinguishing Media:	N/A
Unusual fire or Explosion Hazards:	None
Special Fire-Fighting procedures:	None

**V. HEALTH HAZARDS****A. Summary/Risks**

**Summary:** Perlite is a naturally occurring volcanic glass consisting of fused sodium\* potassium\* aluminum silicate. OSHA has classified Perlite as a Particulate Not Otherwise Regulated (PNOR), which has the same Permissible Exposure Limit (PEL) as that used for nuisance and inert dusts. Although there are no published reports of adverse health effects from exposure to Perlite dust, dust levels should be maintained below the OSHA PEL for PNORs and respirators should be used when airborne dust is present. Excessive inhalation over long periods of time may cause harmful irritation. Perlite is considered a nuisance dust by ACGIH.

This product may contain crystalline silica, quartz (< 1.0%) which is considered a hazard by inhalation. IARC has classified crystalline silica as carcinogenic to human Group 1. Crystalline silica is also listed by NTP as a known human carcinogen.

**Medical conditions which may be aggravated:** pre-existing upper respiratory and lung disease such as, but not limited to bronchitis, emphysema and asthma.

**Target Organs:** Lungs, eyes.

**Route of Entry:** Inhalation, dust contact with the eyes.

**Acute Health Effects:** Transitory upper respiratory irritant. May cause coughing or throat irritation.

**VI. REACTIVITY DATA**

**Stability:** Stable

**Chemical Incompatibilities:** Hydrofluoric Acid

**Conditions to Avoid:** None in designed use. Avoid contact with hydrofluoric acid.

**Hazardous decomposition Products:** May react with hydrofluoric acid to form toxic silicon tetra-fluoride gas.

**VII. FIRST AID MEASURES**

**Skin:** Not absorbed by the skin. May cause dryness. Use moisture-renewing lotions if dryness occurs.

**Eyes:** May cause irritation or inflammations. Flush eyes with copious quantities of water. If irritation persists, call physician.

**Inhalation:** Acute inhalation can cause dryness of the nasal passages and congestion of the upper respiratory tract. Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust.

**Ingestion:** Short term exposures not considered harmful. Drink water to reduce bulk.

**VIII. PRECAUTIONS FOR SAFE HANDLING AND USE**

**Personal Protective Equipment:** Adequate protective devices, such as an N95 respirator, are recommended when the PEL is exceeded and/or when airborne dust is present.

**Gloves:** Not normally required.

**Goggles:** Goggles to prevent dust from entering eyes.

**Engineering controls:** Local if necessary to maintain allowable PEL or TVL levels.

**Leak and Spill Procedure:** Vacuum clean spillage. Wet sweep or wash away. Avoid creating dust.

**Waste Management:** Dispose in accordance with federal, state and local regulation's. Perlite is not considered a hazardous waste under RCRA (40CFR Part 261).

**Handling Procedures:** Repair or properly dispose of broken bags. Maintain good housekeeping procedures.

**Storage segregation Hazard Classes:** N/A

**Special Shipping Instructions:** None

<sup>i</sup> Date issued: January 2010

<sup>i</sup> Prepared by N. Hoople

As of the date of preparation of this document, the foregoing information is believed to be accurate and 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.