SAFETY DATA SHEET - 16 Sections

The Schundler Company

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier **Expanded Perlite (All Grades)**		WHMIS CLASSIFICATION: Not Applicable	
Product Use Light weight aggregates Horticultural aggregate, Insulation, Filter aid			
Manufacturer's Name **The Schundler Company**		Supplier's Name	
Street Address **10 Central Street**		Street Address	
City, State **Nahant, MA**		City	Province
01908	Emergency Telephone **732-287-2244**	Postal Code	Emergency Telephone
Date SDS Prepared August 3, 2015 rev Feb 2021	SDS Prepared By Schundler Consulting	Phone Number 732-287-2244	

SECTION 2 -- HAZARDS IDENTIFICATION

Route of Entry ■ Skin Contact ☐ Skin Absorption ☐ Eye Contact ■ Inhalation ☐ Ingestion

Emergency Overview

This product contains crystalline silica (less than 1%). OSHA considers perlite to be a nuisance dust. Inhalation of high amounts over long periods of nuisance dust may overload lung clearance mechanism and make the lungs more vulnerable to respiratory disease. Long term inhalation of crystalline silica dusts may cause lung cancer (Silicosis). Crystalline silica has been classified as a probable human carcinogen (Group 2A) by IARC, a unit of the World Health Organization. This product has been classified a carcinogen by NTP and/or OSHA.

WHMIS Symbols

Not Regulated

Potential Health Effects

Inhalation: Pre-existing upper respiratory and lung disease may be aggravated. Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided.

Eye: May cause irritation (tear formation and redness) if dust gets in eyes.

Skin: Not absorbed by the skin. But may cause dryness if prolonged exposure.

Ingestion: Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients *(specific)*	%	CAS Number	LD 50 of Ingredient *(specify species and route)*	LC 50 of Ingredient *(specify species)*	OSHA PEL (mg/m3)	ACGIHTLV (mg/m3)
Perlite	100	130885-09-5	Not Available	Not Available	10	15
Silica	<1	14808-60-7	Not Available	Not Available	Not Available	.05

SECTION 4 — FIRST AID MEASURES

Skin Contact Use moisture renewing lotions if dryness occurs
Eye Contact Flush eyes with generous quantities of water or eye rinse solution. Consult physician if irritation persists.
Inhalation Remove to fresh air. Blow nose to evacuate dust
Ingestion Drink generous amounts of water to reduce bulk and drying effects.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable ☐ Yes ■ No		
Means of Extinction N/A		
Flashpoint (°C) and Method None	Upper Flammable Limit (% by volume) None	Lower Flammable Limit (% by volume) None
Auto Ignition Temperature (°C) None	Explosion Data—Sensitivity to Impact None	Explosion Data—Sensitivity to Static Discharge N/A
Hazardous Combustion Products N/A		
NFPA N/A		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles.
Containment and Cleanup: Vacuum clean dust with equipment fitted with HEPA filter. Use dust suppressant such as water if sweeping is necessary.
Environment: Not considered as hazardous waste by RCRA (40 CFR Part 261). Place waste and spillage in closed containers. Dispose of in approved landfill.

SECTION 7 — HANDLING AND STORAGE

Handing Procedures and Equipment Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags.
Hazardous Combustion Products Store in a dry place to maintain packaging integrity and product quality. Do not store near hydrofluoric acid. Observe all label precautions and warnings.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits ■ ACGIH TLV ■ OSHA PEL ☐ Other

Specific Engineering Controls (such as ventilation, enclosed process)

Adequate ventilation and appropriate local exhaust where needed to keep dust level below PEL

Personal Protective Equipment ■ Gloves ■ Respirator ■ Eye ☐ Footwear ☐ Clothing ☐ Other

If Checked, Please Specify Type:

Skin: No special equipment is required.

Respiratory: Respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present. If the dust concentration is less than ten (10) time the Permissible Exposure Limit (PEL) use a quarter or half mask respirator. If dust concentration is greater than ten (10) times and less than fifty (50) times the PEL, a full-face piece respirator fitted with replaceable N95 filters is recommended. If dust concentration is greater than fifty (50) and less than two-hundred (200) times the PEL use a power air-purify (positive pressure) respirator with replaceable N95 filter. If dust concentration is greater than two-hundred (200) times the PEL use a type C, supplied air respirator (continuous flow, positive pressure), with full face piece, hood or helmet.

Eye: Goggles to protect from dust.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid	Odor and Appearance No Distinct Odor White Granules or Powder	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 6-10	Coefficient of Water/Oil Distribution N/A	Solubility in Water Slightly Soluble

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability ■ Yes ☐ No	If not, under what conditions
Incompatibility with other Substances ■ Yes ☐ No	If yes, which ones? Reacts with Hydrofluoric Acid to form Silicon Tetra Fluoride gas

Reactivity and under what conditions?
No dangerous reactions known.

Hazardous Decomposition Products
None

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure
Potential irritant for skin contact, eye contact or inhalation.

Effects of Chronic Exposure
Perlite is a naturally occurring volcanic glass consisting of fused sodium-potassium-aluminum silicate. Tests conducted on Perlite have not identified crystalline silica as being present above the detection limit (0.05%). Although there are not published reports of adverse health effects from exposure to perlite dust, dust levels should be maintained below the OSHA Permissible Exposure Limit for perlite and respirators used when airborne dust is present.

(SECTION 11 — TOXICOLOGICAL INFORMATION Continued on Next Page)

SECTION 11 — TOXICOLOGICAL INFORMATION (continued)

Irritancy of Product Potential irritant for skin contact, eye contact or inhalation.	
Skin Sensitization Possible through skin contact.	Respiratory Sensitization Possible through skin contact
Carcinogenicity—IARC N/A	Carcinogenicity—ACGIH N/A
Reproductive Toxicity N/A	Teratogenicity N/A
Embrotoxicity N/A	Mutagenicity N/A
Name of Synergistic Products/Effects N/A	

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic Toxicity
Generally considered inert. Perlite has no negative ecological effect and may be used as a soil container.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal
Not considered hazardous waste by the RCRA (40 CFR Part 261). Place waste and spillage in closed containers.
Dispose in accordance with Federal, State and Local regulations.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information No known shipping regulations.	PIN N/A
IDG N/A	DOT N/A
IMO N/A	ICAO N/A

SECTION 15 — REGULATORY INFORMATION

WHMIS Classification	OSHA Perlite is not considered as a toxic or hazardous subject
SERA Not listed	TSCA Not listed

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS / SDS contains all of the information required by CPR.

SECTION 16 — OTHER INFORMATION

Notice: This information relates only to the material designated and may not be valid for such material used in combination with any other materials or in any process. All statements, information and data provided are believed to be accurate and reliable, but are presented without any guarantee, representation, warranty or responsibility of any kind, expressed or implied. Any and all representations and/or warranties of merchantability of fitness for a particular purpose are specifically disclaimed. Users should make their own investigations as to the suitability of the information or product for their particular purpose. Nothing in this document is intended as permission, inducement or recommendation to violate any laws or practice any invention covered by existing patents, copyrights or inventions. The Schundler Company does not accept liability for any loss or damage that may occur from the use of this information.