



PENNSYLVANIA PERLITE CORPORATION
MANUFACTURERS OF PERLITE AGGREGATES
BETHLEHEM, PENNSYLVANIA 18018

IMPLEMENTED: 01/01/1998

REVISED: 01/10/2025

SAFETY DATA SHEET – 16 SECTIONS

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Perlite (All Grades)
PA-Lite, A-20, Ecoperl, English Mix, Gladstone, Luna Rock, Trapcoat, Cryogenic Perlite PF-65, PFF-10, PFF-18, PFF-24, ADP, BHF, Plaster Aggregate, Concrete, Screened Plaster, Blockfill, Poolbase, PF30Y

Product Use: Light weight aggregate, Horticultural aggregate, Refractory, Insulation, Filter aid.

Producer and Supplier: Pennsylvania Perlite Corporation
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USA
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Date SDS Prepared: 01/10/2025
SDS Prepared By: Jose Abud

SECTION 2 – HAZARD INFORMATION

Route of Entry: Skin Contact, Inhalation

Emergency Overview:

This product may contain crystalline silica (less than 0.1%). OSHA considers Perlite a nuisance dust and recommends a PEL of 5mg/m³ TWA respirable dust. Inhalation over long periods of high amounts of any nuisance dust may overload lung clearance mechanism and make the lungs more vulnerable to respiratory disease. Long term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis).

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.



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SECTION 3 – CHEMICAL COMPOSITION

Hazardous Ingredients (specific)	%	CAS Number	LD of Ingredient (specify species and route)	LC of Ingredient (specify species and route)	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)
Perlite	100	93763-70-3	Not Available	Not Available	10	15
Silica	<1	14808-60-7	Not Available	Not Available	Not Available	.05

SECTION 4 – FIRST AID PROCEDURES

<u>Inhalation:</u>	Exit from dust area; drink water to clear throat; blow nose to evacuate dust.
<u>Eye Irritation:</u>	Do not rub eyes. Flush eyes with copious amounts of water to remove any dust particles. Contact a physician if irritation persists.
<u>Skin Irritation:</u>	None
<u>Ingestion:</u>	None

SECTION 5 – FIRE AND EXPLOSION HAZARDS

None. Perlite is an inert particle and is non-flammable. Perlite melts at 2,700° F.



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

<u>Personal Prevention:</u>	The wearing of an approved respirator and safety eyewear are recommended.
<u>Ecology Prevention:</u>	None. Perlite can be used as a soil conditioner. Not considered as hazardous waste by RCRA (40 CFR Part 261).
<u>Spill and Leak Procedure:</u>	Vacuum clean or wet sweep, avoid dusting, use a dust suppressant when sweeping.

SECTION 7 – HANDLING AND STORAGE

Store in a dry place and away from hydrofluoric acid. Repair all broken bags immediately. Avoid creating dust. Maintain good housekeeping practices. Collect dust in a closed bag or container and/or use water to reduce airborne dust.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTIONS

<u>Exposure Limits:</u>	☒ ACGIH TLV ☒ OSHA PEL ☐ Other (Specify)
<u>Ventilation:</u>	Use adequate exhaust ventilation and/or dust collection to keep dust levels below PEL.
<u>Personal Protective Equipment:</u>	☒ Gloves ☒ Respirator ☒ Eye ☐ Footwear ☐ Clothes ☐ Other
<u>Goggles:</u>	Normally not required. May use safety eyewear to protect from dusts.
<u>Gloves:</u>	Normally not required. May use gloves to protect overly-sensitive skin.
<u>Respiratory:</u>	Respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid	Odor and Appearance: White Granules or Powder. No distinct odor.	Odor Threshold (ppm): N/A
Specific Gravity: Unexpanded: 2.35 Expanded: 0.032 – 0.160	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

Stability: Material is stable. Hazardous polymerization will not occur.

Chemical Incompatibilities: Hydrofluoric Acid

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

Hazardous Decomposition Products: Reacts with hydrofluoric acid to form toxic silicon tetrafluoride gas.



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SECTION 11 – TOXICOLOGY

<u>Effects of Acute Exposure:</u>	Potential irritant for skin contact, eye contact or inhalation.
<u>Effects of Chronic Exposure:</u>	Perlite is a naturally occurring volcanic glass consisting of fused sodium-potassium-aluminum silicate. Test 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.
Irritancy of Product:	Potential irritant for skin contact, eye contact, or inhalation.
Skin Sensitization:	Possible through skin contact.
Respiratory sensitization:	See section 8
Carcinogenicity –IARC:	N/A
Carcinogenicity –ACGIH:	N/A
Reproductive Toxicity:	N/A
Teratogenicity:	N/A
Embrototoxicity:	N/A
Mutagenicity:	N/A
Name of synergistic products/effects:	N/A

SECTION 12 – ECOLOGICAL DATA

Generally considered inert. Perlite has no negative ecological effects and may be used as a soil conditioner.

SECTION 13 – DISPOSAL CONSIDERATIONS

Not considered a hazardous material by the RCRA (40 CFR Part 261). Dispose of in approved landfill. Keep moist or cover with earth. Dispose of in accordance with Federal, State, and Local regulations.



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SECTION 14 – TRANSPORT INFORMATION

Keep dry and avoid fugitive particles in the environment.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: N/A

SERA: Not Listed

OSHA: Perlite is not considered as a toxic or hazardous subject.

TSCA: Status, Not Listed. Naturally occurring substance.

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 the CPR.

Registration number: Exempt according to Article 2 §7 b of REACH

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. Pennsylvania Perlite Corporation does not accept liability for any loss or damage that may occur for the use of this information.

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