

# HEALTH AND SAFETY DATA SHEET

## 1. IDENTIFICATION

1.1 Commercial Name(s): PA-Lite, Pennlite, Stil-Spil, Ecoperl, English Mix, Gladstone, Luna Rock, Trapcoat, PF-65, PFF, ADP, BHF, 35BC, Penn Perlite  
Expanded perlite aggregates, fillers, insulation: cryogenic

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

1.2 Producer and Supplier: Pennsylvania Perlite Corporation  
1428 Mauch Chunk Road  
Bethlehem, PA 18018  
USA

Telephone: +1 610-868-0992  
Fax: +1 610-868-7609

## 2. HAZARD INFORMATION

This product may contain crystalline silica (less than 0.1%). OSHA considers Perlite a nuisance dust and recommends a PEL of 5mg/m<sup>3</sup> 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.

## 3. CHEMICAL COMPOSITION

Perlite is a Natural Complex Aluminum, Potassium, and Sodium Silicate not chemically treated. Perlite is chemically inert and contains less than 0.1% Crystalline Silica.

CAS No.: 93763-70-3

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### 4. FIRST AID PROCEDURES

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

### 5. FIRE AND EXPLOSION HAZARDS

None. Perlite is inert and non-flammable.

### 6. PROVIDE AGAINST ESCAPE OF DUST

- 6.1 Personal Prevention: The wearing of an approved respirator and safety eyewear are recommended.
- 6.2 Ecology Prevention: None. Perlite can be used as a soil conditioner.
- 6.3 Spill and Leak Procedure: Vacuum clean or wet sweep, avoid dusting, use a dust suppressant when sweeping.

### 7. SPECIAL HANDLING AND STORAGE

Store in a dry place and away from odoriferous chemicals. Repair all broken bags immediately. Avoid creating dust. Maintain good housekeeping practices.

### 8. EXPOSURE AND PERSONAL PRECAUTIONS

- 8.1 Goggles: Normally not required. May use safety eyewear to protect from dusts.

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- 8.2 Gloves: Normally not required. May use gloves to protect overly-sensitive skin.
- 8.3 Respirator: Even through perlite is a nuisance dust, we recommend the use of NIOSH approved respirators to protect against silicosis producing dusts.
- 8.4 Ventilation: Use adequate exhaust ventilation and/or dust collection to keep dust levels below PEL.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Physical state at 20 °C: Solid white powder, max. 10% particles < 5.24 µm
- 9.2 Density: 100-180 kg/m<sup>3</sup>
- 9.3 pH (in 100 g/l water slurry): 5.5 – 9.0
- 9.4 State Modification: Over 800 °C

### 10. STABILITY AND REACTIVITY

- 10.1 Stability: Material is stable. Hazardous polymerization will not occur.
- 10.2 Chemical Incompatibilities: Hydrofluoric Acid
- 10.3 Conditions to Avoid: None in designed use. Avoid contact with hydrofluoric acid.
- 10.4 Hazardous Decomposition Products: Reacts with hydrofluoric acid to form toxic silicon tetrafluoride gas.

### 11. TOXICOLOGY

See Section 2.

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### 12. ECOLOGICAL DATA

12.1 Bio degradability and marine toxicity: None

### 13. WASTE MANAGEMENT

Not considered a hazardous material. Dispose of in approved landfill. Keep moist or cover with earth.

### 14. TRANSPORT INFORMATION

Keep dry.

### 15. LEGAL INFORMATION

15.1 Hazard Symbol: None

15.2 Risk Sentences R: None

15.3 Risk Sentences S: None

15.4 Recommended: S22: Do not inhale dust  
S26: By eye contact, flush with water

### 16. Further Information

Application: Perlite Filteraids are used in industrial filtration and perlite agents as fillers. Technical information is available on demand at the same address.

THIS SHEET IS BASED ON TODAY'S BEST AVAILABLE INFORMATION AND ACCORDING TO DIRECTIVE 2001/58/EC OF THE COMMISSION OF 27/07/2001.