



Termolita S.A.P.I de C.V.
Callejón del Mármol No. 201
Zona Industrial, Santa Catarina, N.L.
CP 66367. Mexico
Tel. +52(81) 8151 0480
E-mail info@termolita.com
www.termolita.com

MATERIAL SAFETY DATA SHEET

Revised: December 2015

1. Product Identification.

Trade Name: Microsil (MS), Filtralite (FL), Hortiperl (HP), Refraperl (RP), Crioterm (CT), Microperl (MP), Termocret (TC), Texlite (TX), Termosil (TS), Termoplast (TP) and Crude Perlite (PC), all grades, mineral sourced from Durango Leticia mine.

Generic Name:	Amorphous Silicate	CAS # 93763-70-3
Chemical Name:	Amorphous siliceous mineral-silicate	
Formula:	Sodium Potassium Aluminum Silicate	
Manufacturer:	Termolita, S.A.P.I de C.V.	
Address:	Callejón del Mármol No. 201 Zona Industrial Santa Catarina, N.L. 66367 Mexico www.termolita.com	
Telephone:	+(52) 81.8151-0480	

2. Product Ingredients.

Name:	Expanded Perlite, Milled Perlite, Perlite Ore.
CAS #	93763-70-3
Percentage Composition:	100%

Exposure Limits:	OSHA PEL 5mg/m ³ (respirable dust) 15mg/m ³ (total dust), ACGIH TLV (respirable): 3mg/m ³ , MSHA PEL: 30 mppcf, NIOSH REL: 5mg/m ³ (respirable dust) 10mg/m ³ (total dust).
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Name:	Quartz
CAS #	14808-60-7
Percentage Composition:	< 1.5%

Exposure Limits:	OSHA PEL 0.1mg/m ³ (respirable dust) 0.3mg/m ³ (total dust), ACGIH TLV (respirable): 0.025mg/m ³ , NIOSH REL: 0.05 mg/m ³ (respirable dust).
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Perlite is essentially an amorphous, hydrated glassy volcanic rock of rhyolitic composition, consisting primarily of fused sodium potassium aluminum silicate.

Perlite is considered a nuisance dust (also called "Particulates Not Otherwise Classified (PNOC) by ACGIH).

3. Health Hazards:

A) Summary:

Perlite: OSHA considers Perlite to be a nuisance dust. Avoid contact with eyes, may cause irritation. Avoid overexposure, may cause lung overloading.

OSHA regulations status: OSHA 29CFR 1910 1200

B) Symptoms of Overexposure:



Inhaled: Coughing
Contact with skin or eyes: irritation
Absorbed through skin: N/A
Ingestion: N/A, regarded as safe by FDA

C) Health effects or risks from exposure

Acute health effect: None, upper respiratory system irritant.
Chronic: Excessive inhalation may cause harmful irritation, use mask suitable for nuisance dust. See summary.
Target Organ: Lungs, eyes
Primary entry routes: inhalation.

D) Medical Conditions which may be aggravated by exposure:

Pre-existing respiratory diseases, such as emphysema, bronchitis, asthma or any other.

E) Chronic health effects:

This product may contain crystalline silica. Long-term inhalation of crystalline silica over the specified values on section 2 may cause silicosis. Respirable crystalline silica has been listed by the NTP as a known carcinogen.

4. First aid / Emergency procedures:

Inhalation: Remove from dusty area; drink water to clear, blow nose to evacuate dust.

Eyes: Never rub eyes, flush with abundant water to remove any particles, consult physician if irritation is persistent.

Ingestion: Drink water.

Skin Contact: N/A

If any condition persists, consult a physician.

5. Fire and Explosion:

Flash Point (°F): Nonflammable, fully oxidized.
Auto Ignition temp (°F): N/A
Flammable Limits in Air (Vol%): N/A

Fire Extinguishing Materials: N/A
Unusual Fire and Explosion Hazards: N/A
Special Firefighting Procedures: N/A

6. Spill, Leak, and Disposal Procedures:

Spill / leak: vacuum clean or sweep material. Use respirators suitable for nuisance dust and adequate eye protection.

Waste Management: Dispose in bulk or containers according to local dump requirements. No special treatment is required.

Dispose of all wastes in accordance with federal, state and local regulations.



7. Handling and Storage:

Storage: Store in dry covered place. Maintain packaging integrity. Do not store near Hydrofluoric acid or any strong acid.

Handling: Use good housekeeping to avoid transient dust. Use proper eye and respiratory protection. Always avoid contact with dust.

8. Special Protection Information:

Gloves: use if skin is easily irritated.

Goggles: Use appropriate eye protection.

Respirator: Although perlite is a nuisance dust, we recommend NIOSH approved respirators to avoid any potential contact with respirable silica.

Ventilation and engineering controls: Maintain dust level below PEL. Use adequate ventilation.

9. Physical Properties:

Vapor Density: (air=1):NA

Specific Gravity: 2.35

Solubility in Water: <1%

Evaporation Rate(butyl acetate=1):N/A

pH (10% suspension) : 6.5-7.5

Boiling Point: N/A

Melting Point(°F) 2,000 +

Appearance: off white, grey

% Volatile by volume: N/A

How to detect this substance: (warning properties of substance as a gas, vapor, dust or mist)

Visual only (dust), No gas, vapors, or mist emitted.

10. Reactivity Data:

Stability: Material is considered as stable

Polymerization: will not occur.

Incompatibility (Materials to avoid): Hydrofluoric acid.

Conditions to avoid: None in intended use. Avoid contact with Hydrofluoric acid.

Hazardous Decomposition Products: May react with Hydrofluoric acid to form toxic silicon tetra fluoride gas.

11. Toxicological Information:

This product may contain crystalline silica. Long-term inhalation of crystalline silica over the specified values on section 2 may cause silicosis. Respirable crystalline silica has been listed by the NTP as a known carcinogen.

12. Ecological Information:

Perlite is considered to be non-ecotoxic. It will not biodegrade. Low bioaccumulation potential.



13. Disposal Considerations

Perlite is non hazardous as defined by RCRA (40 CFR 61)

Always dispose according to local and federal regulations.
Dispose of packaging according to local and federal regulations.

14. Transportation Information:

DOT Proper Shipping Name: Perlite (expanded or crude). Shipping class 55 (no restrictions)
DOT Hazard Classification: Not classified.
IATA (C): Not Regulated.
IATA (P): Not Regulated.
IMDG: Not Regulated.
TDG: Not Regulated.

15. Regulatory Information:

RCRA: This material is not defined as hazardous waste under RCRA 40CFR part 261 TSCA. This material is listed in the TSCA inventory but not otherwise regulated by TSCA.

CERCLA: Material not reportable under CERCLA. Comply with local requirements. RQ: Not applicable.

NTP: Respirable crystalline silica, in industrial and occupational settings is classified as a carcinogen.

Crystalline Silica is listed by the STATE OF CALIFORNIA, Under PROPOSITION 65, and requires the following label:

"Detectable amounts of chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm may be found in this product"

Handling / Storage: Store in dry covered place. Repair all broken bags immediately.

16. Other Information:

HMS	0 - Health 0 - Flammability 0 - Reactivity E - Protective Equipment	NFPA	 4 - Extreme 3 - High 2 - Moderate 1 - Slight 0 - Insignificant
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