

Safety Data Sheet – Perlite

I. PRODUCT IDENTIFICATION

Trade Name (as labeled): Therm-O-Rock Perlite
Manufacturers Name: Therm-O-Rock West, Inc.
Website & Email: www.thermorock.com / general@thermorock.com
Address: 6732 W Willis Road #5014
Chandler, AZ 85226
Phone: (520) 796-1000
Product Use: Light weight aggregate, Horticultural aggregate, Refractory, Insulation, Filter aid.

II. HAZARD IDENTIFICATION

SYMPTOMS OF EXPOSURE for each potential route of exposure:

Inhaled: Coughing and throat irritation, dryness of the nasal passage, lung congestion
Contact with skin or eyes: Possible eye irritation from dust particles
Absorbed through skin: N/A
Swallowed: If ingested, small to moderate quantities are not considered harmful. May cause irritation of the mouth, throat and stomach.

HEALTH EFFECTS OR RISKS FROM EXPOSURE:

Acute: None **Target Organ:** None
Chronic: Excessive inhalation over long period may cause harmful irritation; use mask suitable for nuisance dust.

III. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	%	PEL	TLV (total)
Perlite	93763-70-3	100	15 mg/M3	10mg/M3

A mineral composed of sodium potassium aluminum silicate of variable composition.
Perlite is considered a nuisance dust (also called "Particulates Not Otherwise Classified (PNOC) by ACGIH).
HMIS Code: Health – 0, Fire – 0, Reactivity – 0, Personal Protection – X.
Alpha-Cristobalite & Tridymite: Less than 0.1% Alpha Quartz: <0.1% below detectable limits

IV. FIRST-AID MEASURES

Eye Contact: Flush eye with clear water or eye rinse solution. Consult physician if irritation persists.
Skin Contact: Apply moisture renewing lotions if dryness occurs
Inhaled: Remove affected individual from dusty area to area with clean air.
Swallowed: Drink generous amounts of water to reduce bulk and drying effects.

V. FIRE-FIGHTING MEASURES

Flash Point, °F (give method) Perlite is a fully oxidized, non-flammable mineral. It is noncombustible and non-flammable.
Auto ignition temp., °F N/A **Flammable limits in air, Vol. %** N/A lower (LEL) N/A upper (UEL) N/A
Fire Extinguishing materials: N/A
_____ water spray _____ carbon dioxide _____ other
_____ foam _____ dry chemical
Special fire fighting procedures: N/A **Usual fire & explosion hazards:** N/A

VI. ACCIDENTAL RELEASE MEASURES

SYMPTOMS OF EXPOSURE for each potential route of exposure:

Personal Precautions: If dust is present, use respirator with particulate filter. 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 (40CFR Part 261). Place waste and spillage in closed containers. Dispose of in approved landfill.

VII. HANDLING AND STORAGE

Ventilation and engineering controls: Maintain dust level below TLV.
Respirator protection (type): Masks suitable for nuisance dust. **Eye Protections (type):** Protective goggles.
Gloves (specify material): Not required.
Work practices/hygienic practices/Handling/Storage: Use good housekeeping to avoid transient dust.
Protective measure during maintenance of contaminated equipment: No special equipment, other than respirators and goggles.

VIII. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits: X ACGIH TLV X OSHA Pel
Specific Engineering Controls: Adequate ventilation and appropriate local exhaust where needed to keep dust level below PEL.

Personal Protective Equipment: Suggested: Gloves, Respirator, Eye

Not Required: Footwear, Clothing, Other

Eye: Goggles to protect from dust
Skin: Not Required
Respirator: 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 10 times the Permissible Exposure Limit (PEL) use a quarter or half mask respirator. If the dust concentration is greater than 10 and less than 50 times the PEL, a full face piece respirator fitted with replaceable N95 filters is recommended. If the dust concentration is greater than 50 and less than 200 times the PEL use a power air-purify (positive pressure) respirator with replaceable N95 filter. If dust concentration is greater than 200 times the PEL use a type C, supplied air respirator with full face piece, hood or helmet.

VIII. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Odor and Appearance: No distinct odor. White Granules or Powder.

Specific Gravity: 2.35 **Vapor Density/Vapor Pressure/Evaporate Rate/Boiling Point/Freezing Point:** N/A

PH: 6-10 **Coefficient of Water/Oil Distribution:** N/A **Solubility in Water:** Slightly Soluble

X. STABILITY AND REACTIVITY

Stability: X Stable Unstable

Incompatibility with other substances: May react with hydrofluoric acid to form Silicon Tetrafluoride gas

Hazardous Polymerization: May occur X Will not occur

Conditions to avoid: None in designed use.

XI. TOXICOLOGICAL INFORMATION

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

Effects of chronic: Perlite is a naturally occurring volcanic glass consisting of fused sodium-potassium aluminum silicate. 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.

Carcinogenicity –IARC/Carcinogenicity-ACGIH: N/A **Reproductive Toxicity/Teratogenicity:** N/A

Embrototoxicity/Mutagenicity: N/A **Name of synergistic products/effects:** N/A

XII. ECOLOGICAL INFORMATION

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

XIII. 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.

XIII. TRANSPORTATION INFORMATION

Special Shipping Information: No known shipping regulations.

XIII. REGULATORY INFORMATION

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

Not listed with SERA and TSCA

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

XIII. Other Information

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