



# SAFETY DATA SHEET — 16 Sections

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Perlite (All Grades)		[WHMIS Classification] Not Applicable	
Product Use Light weight aggregate, Horticultural aggregate, Refractory, Insulation, Filter aid.			
Manufacturer's Name Therm-O-Rock East, Inc.		Supplier's Name	
Street Address 1 Pine Street		Street Address	
City New Eagle	Province PA	City	Province
Postal Code 15067	Emergency Telephone 724-258-3670	Postal Code	Emergency Telephone
Date MSDS Prepared 9-30-2013	MSDS Prepared By Stanley R. Slawek	Phone Number (724) 258-3670	

## SECTION 2 — HAZARDS IDENTIFICATION

Route of Entry <input checked="" type="checkbox"/> Skin Contact <input type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input type="checkbox"/> Inhalation <input type="checkbox"/> 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 <sub>50</sub> of Ingredient (specify species and route)	LC <sub>50</sub> of Ingredient (specify species)	OSHA PEL (mg/m <sup>3</sup> )	ACGIH TLV (mg/m <sup>3</sup> )
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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions?	
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) Not Combustible	Explosion Data — Sensitivity to Impact N/A	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**

Handling Procedures and Equipment
Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags.
Storage Requirements
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 <input checked="" type="checkbox"/> ACGIH TLV <input checked="" type="checkbox"/> OSHA PEL <input type="checkbox"/> Other ( <i>specify</i> )
Specific Engineering Controls ( <i>such as ventilation, enclosed process</i> )
Adequate ventilation and appropriate local exhaust where needed to keep dust level below PEL.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input checked="" type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type
Eye: Goggles to protect from dust.

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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) times 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.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Odor and Appearance	Odor Threshold (ppm)
Solid	White Granules or Powder. No distinct odor.	N/A
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
2.35	N/A	N/A
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)
N/A	N/A	N/A
pH	Coefficient of Water/Oil Distribution	[Solubility in Water]
6-10	N/A	Slightly Soluble

## SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Reacts with Hydrofluoric Acid to form Silicon Tetrafluoride 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.	
Irritancy of Product Potential irritant for skin contact, eye contact or inhalation.	
Skin sensitization Possible through skin contact.	Respiratory sensitization
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	

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