



SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Perlite Ore		[WHMIS Classification] Not Applicable
Product Use Slag coagulant		
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 SDS Prepared 5-24-2019	SDS Prepared By Stanley R. Slawek	Phone Number (724) 258-3670

SECTION 2 — HAZARDS IDENTIFICATION

GHS Classification	STOT RE 1, (Specific target organ toxicity – repeated exposure, Category 1).	GHS Symbol 	
Signal Word	Danger		
Hazard Statement	Causes damage to lungs through prolonged or repeated inhalation.		
Precautionary Statements	Do not breathe dust or fume. In case of inadequate ventilation wear respiratory protection. Dispose of contents/containers in accordance with local regulations.		
Other Hazards	Long term exposure to crystalline silica can cause lung injury (silicosis). IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.		

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	Mineral Name	CAS Number	% Content	Classification
Aluminum Silicate	Perlite	130885-09-5	92-99	None
Silicon Dioxide	Quartz	14808-60-7	1-8	STOT RE 1 – H372

SECTION 4 — FIRST AID MEASURES

Skin Contact	Wash with soap and plenty of water. If irritation persists seek medical advice.
Eye Contact	Wash thoroughly with cold water, with eyelids open. If symptoms persist, seek medical advice.
Inhalation	Move exposed individual to fresh air.
Ingestion	Rinse mouth then drink water.
Symptoms Acute and Delayed	The acute symptoms could be pain in the eyes, because of dust entry. No delayed effects are anticipated if first aid treatment is applied and is effective.

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	Upper Flammable Limit (% by volume)	Lower Flammable Limit (% by volume)
None	None	None
Auto ignition Temperature (°C)	Explosion Data — Sensitivity to Impact	Explosion Data — Sensitivity to Static Discharge
Not Combustible	N/A	N/A
Hazardous Combustion Products		
N/A		
NFPA		
N/A		

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid dust formation. In case of exposure of high levels of airborne dust, wear a personal respirator, safety goggles in compliance with national regulations.
Containment and Cleanup: Avoid dry sweeping. Use vacuum cleaning system to avoid dust formation. Wear breathing masks and safety goggles during cleaning in compliance with national regulation
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
Avoid dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting.
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

Control Parameters		
The product should be handled using methods and techniques that minimize dust generation. Maintain personal exposure below occupational exposure limits for inhalable and respirable dust as dictated by local and national regulations.		
Exposure Limits		
Perlite		
Respirable Dust	3 mg/m ³	5 mg/m ³
Total Dust		15 mg/m ³
Inhalable dust	10 mg/m ³	
Quartz		
Respirable Dust	10/(2%SiO ₂) mg/m ³	0.025 mg/m ³
Total Dust	30/(2%SiO ₂) mg/m ³	
Specific Engineering Controls (such as ventilation, enclosed process)		
Minimize airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specific exposure limits. If user operations generate dust, fumes or mist use ventilation to keep exposure of airborne particles below exposure limits.		
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.		
Skin: No special equipment is required.		
Respiratory: In case of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of national regulations. Ensure proper respiratory protection for repair/maintenance of contaminated equipment.		

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Odor and Appearance	Odor Threshold (ppm)
Solid	Light grey granules or powder. No distinct odor.	N/A
Specific Gravity 2.35	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 6-8	Coefficient of Water/Oil Distribution N/A	[Solubility in Water] 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		
Reactions with Hydrofluoric Acid to form Silicon Tetrafluoride gas		

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	Respiratory sensitization
Possible through skin contact.	
Carcinogenicity-IARC	Carcinogenicity - ACGIH
N/A	N/A
Reproductive toxicity	Teratogenicity
N/A	N/A
Embotoxicity	Mutagenicity
N/A	N/A
Name of synergistic products/effects	
N/A	

SECTION 12 — ECOLOGICAL INFORMATION

Aquatic Toxicity
Generally considered inert. Perlite has no known negative ecological effect.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal
Not considered hazardous waste by the RCRA (40 CFR Part 261). The residual/unused product can be disposed of in landfills following national and local regulations. Dispose in such a way to avoid dust generation. Where possible recycling should be preferred to disposal. Used material which has become contaminated may have significantly different characteristics based on the contaminants and should be evaluated accordingly.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information		
No known shipping regulations.		
TDG N/A	DOT N/A	PIN N/A
IMO N/A	ICAO N/A	

SECTION 15 — REGULATORY INFORMATION

WHMIS Classification D2A associated with crystalline silica	OSHA Perlite is not considered a toxic or hazardous substance.
SERA Not Listed	TSCA Listed in the inventory but not otherwise regulated.
Status under CA Proposition 65 This product can expose you to chemicals including Quartz which is known to the state of California to cause cancer. California law requires the above warning in the absence of definitive testing to prove the defined risks do not exist. For more information go to: www.P65warnings.ca.gov	
<i>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.</i>	

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 or 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. Therm-O-Rock East, Inc. does not accept liability for any loss or damage that may occur from the use of this information.