

### 1. Product and Company Identification:

#### 1.1 Product Identifiers:

Product Name: Socorro Perlite Ore Concentrate  
Product Numbers: All Socorro Perlite Ore Grades  
SOC51,52,53,54,60,66,66A,66C,67,67G,68,69,70,71,71S,72,73,75,76,76S,77,78,79,82  
"00" and "000".  
Trade Name: Dicaperl SOC Grade Perlite Ore  
General Use: Multi-Functional Industrial/Commercial Mineral  
Chemical Family: Amorphous Silica Glass, (Alumina-Silicate)  
CAS-No: 93763-70-3  
EC-No: 310-127-6

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses: For Further Expansion, as a Source of Amorphous Silica, and as a Component in Other Industrial/Commercial Applications

#### 1.3 Details of the supplier of the safety data sheet

Company: Dicalite Management Group, Inc.  
Suite 310, 1 Bala Avenue  
Bala Cynwyd, PA 19004  
USA  
Telephone: (610) 660-8808

#### 1.4 Emergency telephone number

Emergency Phone #: (610) 660-8808

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

#### Classified Components

No Classified Components

#### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS)

Not Classified

### 2.2 GHS Label Elements, Including Precautionary Statements

Pictogram	Not applicable
Signal word	No signal word
Hazard statement(s)	No known health effects or hazards
Precautionary statement(s)	Not applicable

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms: Amorphous Volcanic Glass  
Formula: Hydrated Aluminum Silicate Mixture – See Ingredients

### 3.2 Ingredients

Chemical Name, Formula	CAS Number	EINECS Number	Percentage (%)
Perlite Ore (Aluminum Silicate - $Al_6Si_2O_{13}$ )	130885-09-5	310-127-6	Up to 100% WT
Crystalline Silica (Quartz & Cristobalite - Nonrespirable $SiO_2$ )	14808-60-7 14464-46-1	231-545-4	<3% WT

### 3.3 Hazardous Components

These products may contain traces of naturally occurring Respirable Crystalline Silica (CAS #'s 14808-60-7 and/or 14464-46-1) at concentration levels below the HazCom 2012 and GHS Revision 3 hazard classification limits for reporting. Internationally recognized and validated test methods have shown that these component ingredients are present, but are not at reportable or biologically significant levels. Thus, in the current and anticipated future physical state of these products, they are believed to be incapable of causing harm under normal conditions of use or as a result of extreme upset.

### 3.4 Additional Information

Per XRC analysis, which combines the analytical capabilities of X-Ray Diffraction, Computer Controlled Scanning Electron Microscopy/Energy Dispersive Spectroscopy and Raman Spectroscopy to conduct particle-by-particle inter-instrumental relocation and physicochemical/mineralogical analysis - naturally occurring trace level substances in these products, including Respirable Crystalline Silica are inextricably bound, environmentally unavailable and at trace level concentrations. As a result, while these compounds are reported, they are also excluded from hazard classification.

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## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**Inhalation:** If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention

**Skin Contact:** Use good hygiene practices including washing of skin with soap and water. Use moisturizing lotions if dryness occurs. If irritation occurs, seek medical attention

**Eye Contact:** In case of eye contact, flush eyes with water. Do not rub affected area. If necessary, seek medical attention

**Ingestion:** If a large amount is swallowed, get medical attention

### 4.2 Most Important Symptoms/Effects, Acute and Delayed:

None; generated dust may result in irritation.

### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically. Seek medical care if large quantities have been ingested or inhaled.

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## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing Media

These products are not flammable. Use fire extinguishing media appropriate for surrounding materials

### 5.2 Special Hazards Arising from the Substance or Mixture

Hazardous combustion products do not occur

### 5.3 Explosion Data

Sensitivity to Mechanical Impact           None

Sensitivity to Static Discharge           None

### 5.4 Advice for Firefighters

No specific fire-fighting procedures are needed

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## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Follow precautions for safe handling as described in this Safety Data Sheet

## 6.2 Environmental Precautions

Products are naturally occurring nonhazardous minerals. Handle wastes in accordance with, Federal, State and Local regulations.

## 6.3 Methods and Material for Containment and Cleaning Up

Avoid excessive and ongoing dust formation.

## 6.4 Reference to Other Sections

For personal protection see section 8. For waste disposal see section 13.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

Wear personal protective equipment in accordance with those recommendations provided in Section 8. Use good hygiene practices and wash hands and face before eating, drinking or conducting personal hygiene. Reduce contamination from clothing and protective equipment before entering eating areas.

### 7.2 Conditions for Safe Storage, Including any Incompatibilities

**Storage:** Keep dry and free from odors. Store in accordance with Federal, State and Local regulations.

**Incompatibilities:** Hydrofluoric Acid (HF).

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure Limits:

OSHA (PEL): 15 mg/m<sup>3</sup> (TWA, total particulates, not otherwise regulated)  
5 mg/m<sup>3</sup> (TWA, respirable particulates, not otherwise regulated)

ACGIH (TLV): 10 mg/m<sup>3</sup> (TWA, inhalable particulates, not otherwise regulated)  
3 mg/m<sup>3</sup> (TWA, respirable particulates, not otherwise regulated)

**Engineering Controls:** Keep working areas clean and free of dust. Observe occupational exposure limits and provide local ventilation as necessary to control dust inhalation.

**Respiratory Protection:** No specific recommendation made, but respiratory protection must be used where general dust levels exceed occupational exposure limits. If needed, wear appropriate protection in high dust conditions and affected work areas.

**Eye/Face Protection:** Wear eye protection where there is danger of eye contact. Provide eyewash station.

**Skin and Body Protection:** No specific protection noted, but gloves and coveralls may be used. Wash hands at the end of each work shift and before eating, smoking and personal hygiene.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical State:	Granular Solid
Color:	Grey to Off-White with Black features
Melting Point:	>1037C/1900F
Odor:	Odorless
pH	5-10 (Neutral-10% Solution in Water)
Specific Gravity:	2.2-2.4 (water=1)
Granulometry:	Varies: (generally in the range of 0.05mm-5mm-US 8 Mesh to 325 Mesh)
Flash Point:	Not Flammable (Inorganic Solid)
Combustibility:	Not Combustible (Inorganic Solid)
Water Solubility:	Not soluble, but miscible.
Explosive Properties:	Not applicable
Oxidizing Properties:	Not applicable
VOC Content %	None, as produced

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal temperature conditions.

### 10.2 Chemical Stability

These products are stable.

### 10.3 Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to Avoid

Avoid contact with hydrofluoric acid.

### 10.5 Incompatible Materials

Hydrofluoric Acid

### 10.6 Hazardous Decomposition Products

Hazardous decomposition products should not be produced under normal conditions of storage and use. In the presence of hydrofluoric acid, silicon tetrafluoride gas may form.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

Other health effects: These substances have shown no evidence of adverse health effects under normal conditions of use or in extreme upset environments.

#### Acute Toxicity

Acute toxicity (Oral LD50): Not relevant

Acute toxicity (Dermal LD50): Not relevant

Acute toxicity (Inhalation LC50): Not relevant

**Inhalation:** Dust in high concentrations may irritate the respiratory system

**Ingestion:** May cause discomfort if swallowed

**Skin Contact:** Powder may irritate skin

**Eye Contact:** Particles in the eyes may cause irritation

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## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Not regarded as dangerous for the environment as a natural occurring mineral.

### 12.2 Acute Fish Toxicity

Not considered toxic to fish

### 12.3 Persistence and Degradability

These products are not readily biodegradable

### 12.4 Bioaccumulative Potential

These products are not bioaccumulating

### 12.5 Mobility in Soil

Not relevant, due to the form of the products

### 12.6 Results of PBT and vPvB Assessment

These products do not contain any PBT or vPvB substances

### 12.7 Other Adverse Effects

None. Perlite products represent a heat processed inorganic, inert material that does not constitute any known health hazards and is non-combustible.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

#### Product

Dispose of waste and residues in accordance with Federal, State and Local regulations. Perlite products are not considered a hazardous waste under RCRA (40 CFR Part 261).

#### Contaminated Packaging

Dispose of in accordance with Federal, State, and Local regulations.

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## 14. TRANSPORT INFORMATION

DOT Proper Shipping Name:	Perlite, Crude, Class 55, No restrictions.
Road transport notes:	Not classified
Rail transport notes:	Not classified
Sea transport notes:	Not classified
Air transport notes:	Not classified

### 14.1 UN Number

These products are not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

### 14.2 UN Proper Shipping Name

Not classified for transportation

### 14.3 Transport and Hazard Class(s)

Not classified for transportation

### 14.4 Packing Group

Not classified for transportation

### 14.5 Environmental Hazards

Not an environmentally hazardous substance / marine pollutant

### 14.6 Special Precautions for User

Not classified for transportation

### 14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code

Not applicable

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## 15. REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

### SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313

### SARA 311/312 Hazards

Regulated per OSHA HAZCOM Standards

### California Proposition 65 Components

These products do not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm at levels above the "safe harbor" designation. Trace component concentrations are so low that they create no significant exposure risk of cancer, birth defects or other reproductive harm.

### Other State Right to Know Components

No investigation of State and Local requirements was performed. For details on these regulatory requirements, contact the appropriate agencies within your region.

**RCRA:** Not classified as hazardous waste under CFR 40 261

**TSCA:** Material is listed in the TSCA inventory and not otherwise regulated.

**CERCLA:** The material as supplied does not contain any substances regulated as hazardous.

**Clean Water Act:** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act.

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**16. OTHER INFORMATION**

**Full Text of H-Statements Referred to Under Sections 2 and 3.**

Not applicable

**HMIS Rating**

Health hazard: 0  
Chronic Health Hazard: 0  
Flammability: 0  
Physical Hazard 0

**NFPA Rating**

Health hazard: 0  
Fire Hazard: 0  
Reactivity Hazard: 0

Hazard Rating	
0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

**Further Information**

License granted to make unlimited paper copies for internal use only. The above information is believed to be correct as of the date of preparation and does not purport to be all inclusive or account for naturally occurring variation in the composition of raw ores. It therefore, represents no guarantee of the properties associated with these products.

The information in this document should be used only as a guide in applying the appropriate safety precautions and professional consultation is advised. Should naturally occurring variation cause significant change in product composition, this information will undergo revision as appropriate. Dicalite Management Group, Inc. and its Affiliates shall not be held liable for any damage resulting from the end user's handling or contact with these products.

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