

# Material Safety Data Sheet

## Geolite Clay Pebbles

### SECTION 0: Introductory note

The product is an article within the meaning of of Regulation (EC) 1907/2006 (REACH); therefore, the preparation/transmission of a safety data sheet compliant with the provisions of Regulation (EU) No 453/2010 is not mandatory.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name:	Geolite
Chemical type:	article (expanded clay with specific pH)

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

The product is used in gardens, nurseries and horticulture.

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

Registered Office:	XXXXXXXXXXXX
Technical/Sales Office:	XXXXXXXXXXXX
Plants:	XXXXXXXXXXXX
Person in charge for the safety data sheet:	XXXXXXXXXXXX

#### 1.4. Emergency telephone number

XXXXXXXXXXXX

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

The product is an article within the meaning of of Regulation (EC) 1907/2006 (REACH); therefore, classification and labeling criteria established by (EC) Regulation 1272/2008 (CLP) do not apply.

#### 2.2. Label elements

The product is an article within the meaning of of Regulation (EC) 1907/2006 (REACH); therefore, it does not require a label of danger.

#### 2.3. Other hazards

The product has no harmful effects to humans or the environment in the form in which it is placed on the market. Under certain conditions, the product may result in the formation of dust.

Contact with the eyes:	Dust may cause irritation and inflammation.
Contact with the skin:	Dust may cause irritation and inflammation.
Inhalation:	Dust may cause irritation and inflammation of the respiratory tract.
Ingestion:	In larger amounts, it may cause irritation and inflammation of the digestive system.

Product constituents do not satisfy the criteria for PBT or vPvB classification according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

### SECTION 3: Composition/information on ingredients

#### 3.3. Articles

<u>Main constituents</u>	
Expanded clay	main mixture of sintered silicon aluminum and iron oxides, in the presence of other trace elements, derived from naturally occurring substance (natural clay) and water-repellent additives in trace amounts
Additives:	phosphoric acid (< 1%)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Contact with the eyes:	Do not rub eyes to avoid corneal damage. Rinse cautiously with water for several minutes, holding the eyelids open. Remove contact lenses, if present and easy to do. Call an ophthalmologist.
Contact with the skin:	If skin irritation or rash occurs, wash with plenty of soap and water.
Inhalation:	(of larger amount of dust) Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a doctor if you feel unwell.
Ingestion:	Rinse mouth with water. Do not induce vomiting. Call a doctor.

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### 4.2. Most important symptoms and effects, both acute and delayed

See SECTION 2 and SECTION 11.

### 4.3. Indication of any immediate medical attention and special treatment needed

See SECTION 4.1. treat symptomatically.

## SECTION 5: Firedighting measures

### 5.1. Extinguishing media

Use extinguishing media appropriate to the source of the fire and the surrounding area.

### 5.2. Special hazards arising from the substance or mixture

The product is non-combustible and non-explosive and does not facilitate or sustain the combustion of other materials.

### 5.3. Advice for firefighters

Move containers from fire area if it can be done without risk. Wear special protective equipment, such as boots, overalls, gloves, eye and face protection and self breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment, and procedures in case of emergency

Evacuate and isolate the area until complete dispersion of the product. Alert the emergency personnel. Ensure adequate ventilation. Avoid generating and spreading dust. Avoid inhalation of dust and contact with eyes and skin. Where necessary, wear appropriate personal protective equipment.

### 6.2. Environmental precautions

Prevent the product from leaking into the environment and run off into drains, surface waters and groundwater. Alert competent authorities if large amounts into drains or watercourses or contamination of soil and/or vegetation.

### 6.3. Methods and material for containment and cleaning up

Contain the spillage. Cover drains. Collect the product by mechanical means or dry vacuum cleaners and transfer into a suitable container properly labeled. Dispose of in accordance with local and national legislation. Clean surface thoroughly to remove residual contamination.

### 6.4. Reference to other sections

For information on personal protection see SECTION 8. For information on disposal considerations, see SECTION 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Ensure adequate ventilation. Avoid generating and spreading dust. Avoid inhalation of dust and contact with eyes and skin. Where necessary, wear appropriate personal protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

No specific measure is required.

### 7.3. Specific end use(s)

The product is used in hydroponics, aquaponics, gardens, nurseries and horticulture. For different and/or particular uses, contact the Sales Department of Hydrofarm

## SECTION 8: Exposure controls/personal protection

### 8.2. Exposure controls

Dust - inhalable fraction	ACGIH - TWA ( 8 hours)	= 10 mg/m <sup>3</sup>
Dust - respirable fraction	ACGIH - TWA ( 8 hours)	= 3 mg/m <sup>3</sup>
Free crystalline silica - respirable fraction	ACGIH - TWA ( 8 hours)	= 0.025 mg/m <sup>3</sup>

### 8.2. Exposure controls

Where necessary, wear personal protective equipment in accordance with standards set by European and national legislation. Consult the supplier in all cases before making a final decision.



Skin protection:

Wear approved work clothes (able to cover the forearms in continuity with gloves) and safety footwear for professional use.

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Hand protection:	Wear approved alkali-resistant impervious gloves (breakthrough time > 480 minutes) in compliance with Directive 89/686/EEC and EN 374 - part 1, 2 and 3. Since the product is a mixture of several substances, the resistance of the glove material (degradation, breakthrough time and permeation) should be tested before use, as it is not predictable in advance.
Eye protection:	Wear approved glasses or safety goggles in compliance with EN 166.
Respiratory protection:	Wear an approved filtering facepiece respirator (FFP1) in compliance with EN 149.
Technical and hygienic measures:	Ensure containment of the concentration of inhalable/respirable particulate within the values reported in SECTION 8.1. Take appropriate measures to contain dust emissions into the environment and, where necessary, capture and convey dust to appropriate abatement systems. Do not eat, drink, or smoke during use. Wash hands and other exposed areas after use. Wash periodically clothes and personal protective equipment to remove contaminants. Handle the product in accordance with good industrial hygiene and safety practices.

### SECTION 9: Physical and chemicals properties

#### 9.1. Information on basic physical and chemical properties

a) Appearance:	brown solid
b) Odour:	odourless
c) Odour threshold:	not available
d) pH:	≥ 6 (aqueous solution)
e) Melting/freezing point:	not available
f) Initial boiling point and boiling range:	not available
g) Flash point:	not available
h) Evaporation rate:	not applicable
i) Flammability (solid, gas):	non-combustible (Class A1)
j) Upper/lower flammability or explosive limits:	not applicable
k) Vapour pressure:	not applicable
l) Vapour density:	not applicable
m) Relative density:	≈ 280 - 430 kg/m <sup>3</sup>
n) Solubility:	insoluble in water
o) Partition coefficient: n-octanol/water:	not applicable
p) Auto-ignition temperature:	not available
q) Decomposition temperature:	not available
r) Viscosity:	not applicable
s) Explosive properties:	not explosive
t) Oxidising properties:	not available

#### 9.2. Other information

Not available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No particular danger of reaction with other substances under recommended conditions of use.

#### 10.2. Chemical stability

Stable under recommended use and storage conditions. When mixed with water, the product hardens by forming a mass generally stable and inert.

#### 10.3. Possibility of hazardous reactions

No possibility of hazardous reactions under recommended use and storage conditions.

#### 10.4. Conditions to avoid

No particular condition to avoid.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

Not known.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Contact with the eyes:	Dust may cause irritation and inflammation.
Contact with the skin:	Dust may cause irritation and inflammation.
Inhalation:	Dust may cause irritation and inflammation of the respiratory tract.
Ingestion:	In larger amounts, it may cause irritation and inflammation of the digestive system.

#### a) Acute toxicity

Not relevant.

#### b) Irritation

Not relevant.

#### c) Corrosion

Not relevant.

#### d) Sensitisation

Not relevant.

#### e) Repeated dose toxicity

Not relevant.

#### f) Carcinogenicity

Not relevant.

#### g) Mutagenicity

Not relevant.

#### h) Toxicity for reproduction

Not relevant.

### SECTION 12: Ecological information

#### 12.1. Toxicity

The product shows no effects of processing or behavior likely to cause damage to the environment under normal conditions of use and storage.

#### 12.2. Persistence and degradability

Not relevant (inorganic material).

#### 12.3. Bioaccumulative potential

Not relevant (inorganic material).

#### 12.4. Mobility in soil

Not relevant (inorganic material).

#### 12.5. Results of PBT and vPvB assessment

Product constituents do not satisfy the criteria for PBT or vPvB classification according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

#### 12.6. Other adverse effects

Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

The product must be disposed of as hazardous waste in accordance with the provisions of Directive 2008/98/EC and Decision 2000/532/EC. These provisions are applicable also for the contaminated packaging. It is therefore advisable to contact the authorities or authorized specialized companies that can give indications on how to dispose. Do not recover product residues. Do not reuse empty containers.

### SEZIONE 14: Transport information

The product is subject to the provisions of existing legislation governing the transport of dangerous goods by road (ADR), rail (RID), sea (IMDG Code) and air (IATA). During transport, maintain the product in closed packaging in order to avoid dispersion.

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<b>14.1. UN number</b>
Not applicable.
<b>14.2. UN proper shipping name</b>
Not applicable.
<b>14.3. Transport hazard class(es)</b>
Not applicable.
<b>14.4. Packing group</b>
Not applicable.
<b>14.5. Environmental hazards</b>
Not applicable.
<b>14.6. Special precautions for user</b>
Not applicable.
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>
Not applicable.

### SEZIONE 15: Regulatory information

<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<ul style="list-style-type: none"> <li>▪ The product is an article within the meaning of of Regulation (EC) 1907/2006 (REACH); therefore, classification and labeling criteria established by (EC) Regulation 1272/2008 (CLP) do not apply.</li> <li>▪ As part of the " Agreement on Workers' Health Protection through the Good Handling and Use of Crystalline Silica and Products Containing it " (signed on 25/10/2006 by Employee and Employer European sectoral associations), the safe handling practices identified in the "Good practice guides" (<a href="http://www.nepsi.eu/agreement-good-practice-guide/good-practice-guide.aspx">http://www.nepsi.eu/agreement-good-practice-guide/good-practice-guide.aspx</a>) have been adopted. Depending on the specific product and its method of use, you should enable appropriate technical and organizational measures and a systematic monitoring of occupational exposure.</li> </ul> <p>The product does not contain substances of very high concern (SVHC) included in the candidate list for Authorisation or subjected to Authorisation/Restriction according to Regulation (EC) 1907/2006 (REACH).</p>

<b>15.2. Chemical safety assessment</b>
A chemical safety assessment has not been performed for the product.

### SEZIONE 16: Other information

<u>Key references and data sources:</u>
<ul style="list-style-type: none"> <li>▪ Regulation (EC) 1272/2008 (CLP) (and its subsequent modifications and amendments)</li> <li>▪ Regulation (EC) 1907/2006 (REACH) (and its subsequent modifications and amendments)</li> </ul>

<u>Acronyms:</u>	
ACGIH:	american conference of governmental industrial hygienists
ADR:	europaean agreement concerning the international carriage of dangerous goods by road
CAS:	chemical abstracts service
CLP:	classification labelling and packaging
EINECS:	europaean inventory of existing commercial chemical substances
IATA:	international air transport association
IMDG Code:	International Maritime Dangerous Goods Code
PBT:	persistent, bioaccumulative and toxic
REACH:	registration, evaluation and authorization of chemicals
RID:	regulations concerning the international carriage of dangerous goods by rail
TWA:	time weighted average
vPvB:	very persistent and very bioaccumulative

<u>Notes:</u>
The information provided in this safety data sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation and disposal and is not to be considered a warranty or quality specification. The user must verify the suitability and completeness of the information in relation to its particular use of the product .