



# Safety Data Sheet

1. Chemical Product and Company Identification		
INFIGRO Natural Technologies P O Box 137 Olifantsfontein 1665	Tel: +27 11 697 5300 Fax: +27 11 388 2549	In Case Of Emergency: +27 83 443 5959
Trade Name:	Genulite	
Chemical Name: (synonym, generic name)	Perlite	
Recommended uses:		
2. Hazards Identification:		
Classification in terms of Regulation (EC) No. 1272/2008 and Directive 67/548/EEC and SANS 10234:	Specific Target Organ Toxicity-single exposure Category 3	
Label Elements:	Symbol:	None
	Signal Word:	Warning
	Hazard Statements:	H335 May cause respiratory irritation.
	Precautionary Statements:	P261 Avoid breathing dust
Other hazards:	Abrasive nature of the particles could cause eye irritation which clears within a few hours after flushing with water. Classified as a nuisance dust by the Occupational Health and Safety Act – Regulations for Hazardous Chemical Substances, 1995. (Also listed under particulates, Not Otherwise Classified (PNOC) by ACGIH)	
3. Composition and Information on Ingredients:		
CHEMICAL NAME:	CAS NO.	% BY WEIGHT
Perlite	93763-70-3	>99%
Christobalite and Tridymite		<0.1%
Alpha quartz		0.01 – 0.05%
The product is essentially an amorphous, hydrated glassy volcanic rock of rhyolitic composition, consisting primarily of fused sodium potassium aluminium silicate.		
4 First Aid Measures:		
Anticipated Acute effects:	May cause mechanical eye irritation due to particulate matter-short duration. Excessive inhalation may cause harmful irritation.	
Anticipated delayed effects:	None	
Inhalation:	Move person to fresh air. Allow to rest in clean air. Obtain medical attention if irritation persists.	
Skin Contact:	Rinse off with water.	
Eye contact:	Flush with clean water for at least 15 minutes. Remove contact lenses if applicable and easy to do. In severe cases where particles are not removed by flushing, seek medical attention.	
Ingestion:	Rinse mouth with water.	
Protection of First Aiders:	First aiders, as always are required to wear surgical gloves when attending to first aid cases involving injury.	
5. Fire Fighting Measures:		
Extinguishing media:	Suitable	Perlite is a fully oxidised, non-flammable mineral. It is non-combustible, non-flammable and does not present any fire or dust explosion hazard. Use appropriate extinguishing media for surrounding fire.
Hazardous Combustion Products:	None	
Precautions for fire fighters	No data available.	
PPE for fire fighters:	Wear self-contained breathing apparatus and full suit to extinguish surrounding fire.	
Special extinguishing methods:	Use methods appropriate for surrounding fire.	
6. Accidental Release Measures:		
Personal precautions:	Avoid breathing dust. Ensure adequate ventilation. Wear personal protective equipment as per section 8.	
Protective equipment:	Dust mask, Safety glasses.	
Emergency Procedures:	None required.	
Environmental precautions:	Avoid dust formation.	

Methods and materials for containment:	Not required.	
Methods and materials for cleaning up:	Dampen with water then sweep up. Alternately, the spill can be vacuumed up.	
Neutralisation and disposal:	Transfer product to containers for disposal. See section 13 for disposal.	
<b>7. Handling and Storage</b>		
Handling precautions:	Avoid contact with eyes. Avoid inhalation of dust. Avoid formation of dust. Avoid damage to packaging when loading and offloading. Follow good housekeeping procedures.	
Storage precautions:	Store in a cool, dry, well ventilated area. Avoid moisture and contact with water.	
Suitable packaging materials:	Store in original paper packaging.	
<b>8: Exposure Controls/ Personal Protection</b>		
Occupational exposure limits:	TWA 8hr 10mg/m <sup>3</sup> (Total dust) TWA 8hr 5mg/m <sup>3</sup> (Respirable dust)	
Engineering control measures:	Dust extraction equipment can be used where the product blending method results in excessively dusty conditions.	
Hygiene controls:	Handle in accordance with good industrial hygiene and safety practises. Wash hands and face before breaks and at the end of a workday.	
Personal protection:	Respiratory: Hand/Skin/Body: Eye:	FF1 paper dust mask, SABS approved or equivalent. Not required. Safety glasses, SABS approved.
		Symbolic signs:  
<b>9. Physical and Chemical Properties</b>		
Physical State and Appearance:	White powder	
Odour / Odour Threshold	None	
PH (as is)	Not applicable	
Boiling/Condensation point:	Not applicable	
Melting/Freezing point:	Approximately 1090°C	
Evaporation rate:	Not applicable	
Flash point / Flammability:	Not applicable	
Upper/Lower flammability or explosive limits:	Not applicable	
Vapour pressure:	Not applicable	
Vapour Density:	Not applicable	
Specific Gravity:	2.2 – 2.4	
Oxidizing properties:	Not applicable	
Solubility - water:	<1%	
n-Octanol/water partition coefficient:	No data available	
Auto-ignition temperature:	Not applicable	
Decomposition temperature:	No data available	
<b>10. Stability and Reactivity:</b>		
Chemical Stability:	Product is a stable, inert material.	
Hazardous reactions:	Reacts with hydrofluoric acid to form silicone tetrafluoride gas which is toxic.	
Conditions to avoid:	Avoid moisture. Avoid water.	
Incompatible materials:	Hydrofluoric acid.	
Hazardous decomposition products:	None	

<b>11. Toxicological Information:</b>			
Routes of exposure:		Eye contact, inhalation.	
Acute oral toxicity:	ORAL:	RAT LD50 >10000mg/m <sup>3</sup>	
	DERMAL:	No data available	
	INHALATION:	No data available	
Potential health effects:	Ingestion:	Not harmful	
	Eye:	Abrasive nature of the particles could cause eye irritation which clears within a few hours after flushing with water.	
	Skin:	Abrasive nature of the particles could cause mild skin irritation due to mechanical abrasion.	
	Respiratory:	May cause respiratory irritation characterised by coughing, sneezing, wheezing.	
CHRONIC EFFECTS:	Skin corrosion/irritation:	No data available	
	Serious eye damage/irritation:	No data available	
	Respiratory/skin sensitization:	No data available	
	Carcinogenicity:	Not listed	
	Germ cell mutagenicity:	No data available	
	Reproductive toxicity:	No data available	
	Aspiration hazard:	Not applicable	
Delayed effects:		None	
<b>12. Ecological Information:</b>			
Ecological toxicity:	FISH:	No data available	
	INVERTEBRATES:	No data available	
	PLANTS:	No data available	
Persistence and degradability:		No data available	
Bio accumulative potential:		No data available	
Mobility in Soil:		No data available	
Other information:		The product is a naturally occurring mineral and is not harmful to fauna and flora. The product is not biodegradable, but as an inert, non-toxic product, does not pose any threat to the environment.	
<b>13. Disposal Considerations:</b>			
Waste residues safe handling:		No special treatment required.	
Disposal Methods:		Re-cycle if possible. If product needs to be disposed of contact a local registered waste service provider and dispose in compliance with local legal requirements.	
Disposal of packaging:		Re-cycle if possible. If product needs to be disposed of contact a local registered waste service provider and dispose in compliance with local legal requirements.	
<b>14. Transport Information</b>			
	ADR	IMDG	IATA
UN no:	Not classified as Dangerous Goods	Not classified as Dangerous Goods	Not classified as Dangerous Goods
Proper Shipping Name:	Not applicable	Not applicable	Not applicable
Class:	Not applicable	Not applicable	Not applicable
Subsidiary risks:	Not applicable	Not applicable	Not applicable
Packing Group:	Not applicable	Not applicable	Not applicable
ERG:	Not applicable	Not applicable	Not applicable
Marine pollutant:	No	No	No
Road transport special provisions, PBLO:	Not applicable	-	-
Low Hazard Class:	Dust	-	-
Freight classification:	-	-	Class 250 Thermal

**15. Regulatory Information:**

Occupational Health and Safety Act No.85 of 1993, Hazardous Chemical Substances Regulations Annexure 1 Section 36 (Dusts).  
The safety data sheet complies with Globally Harmonised System SANS 10234 and SANS 10228.

Product is non-toxic and is approved by the Food Chemicals Codex.

According to European Directive 67/548/EEC as amended:

Risk phrases:

R36/37 Irritating to eyes and respiratory system

Safety phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**16. Other Information:**

Notice to reader:

The information contained herein is accurate to the best of our knowledge. However, neither the above named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material remains the sole responsibility of the user. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards.

Bibliography: Health, Environmental and Regulatory Information B Guide, Perlite Institute Inc. (Revised 2001)