SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

1.1 Product Identifier

Product number and name

99068 GROLITE TYPE 2 ULTRA FINE, 150kg bulk bag
99080 GROLITE UNSCREENED, 100L bag
99083 GROLITE TYPE 2 COARSE, 100L bag
99084 GROLITE TYPE 2 FINE, 150kg bulk bag
99085 GROLITE TYPE 1 COARSE, 10kg bag
99086 GROLITE TYPE 1 MEDIUM, 100L bag
99092 GROLITE TYPE 1 FINE, 100L bag

Product type: Perlite, expanded

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

Relevant identified uses: Growing Medium

Uses advised against: No specific uses advised against.
Avoid eye contact and inhalation of dusts.

1.3 Details of Supplier of Safety Data Sheet

Manufactured by:
Pratley Perlite Mining Company (Proprietary) Ltd
14 Jackson Street, Factoria, Krugersdorp, 1745
South Africa
Tel: +27-11-955-2190 Fax: +27-11-955-3918
www.pratleyminerals.com

Supplied in South Africa by:
Pratley (Proprietary) Ltd
14 Jackson Street, Factoria, Krugersdorp, 1745
South Africa
Tel: +27-11-955-2190 Fax: +27-11-955-3918
sales@pratley.com
www.pratleyminerals.com

Supplied outside South Africa by:
Pratley Exporting (Proprietary) Ltd
14 Jackson Street, Factoria, Krugersdorp, 1745
South Africa
Tel: +27-11-955-2190 Fax: +27-11-955-3918
exports@pratley.com
www.pratleyminerals.com

1.4 Emergency Telephone Number

South Africa +27-11-955-2190 during office hours

	10117 All emergencies
	+27-21-689-5227 Poisons Information Centre
Europe	112 All emergencies
	For detailed poison information, the national poison centre, if available, should be contacted.
United Kingdom	999 All emergencies
	111 (NHS, England, NHS 24, Scotland or NHS Direct, Wales), 0808 808 8000 (Lifeline, N. Ireland) 01 809 2166 (National Poison Information Centre, Republic of Ireland)
Australia	000 All emergencies
	13 11 26 NSW Poison Information Centre
New Zealand	111 All emergencies
	0800 764 766 National Poisons Centre (poisons@otago.ac.nz)
Americas	911 All emergencies
	1-800-222-1222 Poisons Help (PoisonHelp.org)

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification

NOT CLASSIFIED AS HAZARDOUS.

2.1.2 Additional Information

None known.

2.2 Label Elements

No Precautionary Statements are required on the label.

2.3 Other Hazards

Temporary mechanical abrasion of skin, eyes and respiratory tract may occur upon exposure. Abrasion effects should subside after cessation of exposure.

Airborne respirable dust may be generated during handling and use. Dust may contain a negligible quantity of crystalline silica. Since these products contain less than 0.02% respirable crystalline silica particles, they present very low risk.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous Ingredients	% [weight]	CAS No. EC No. Index No.	SCL, M-Factors, ATE	Classification	H / EUH Code(s)
Perlite, expanded	100	93763-70-3 618-970-4 Not listed		Not classified as hazardous	

SECTION 4 – FIRST AID MEASURES

4.1 Description of First Aid Measures

SKIN Wash contaminated skin with soap and water. Use moisture renewing lotion of dryness occurs.
EYE Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation persists.
INHALATION Move exposed person to fresh air. Blow nose to evacuate dust.
INGESTION Drink plenty of water to reduce bulk and drying effects.

4.2 Most important symptoms and effects, both acute and delayed

SKIN	No known significant effect or critical hazards. Prolonged exposure may cause dryness or irritation.
EYE	No known significant effect or critical hazards. May cause irritation.
INHALATION	No known significant effect or critical hazards. May cause irritation. Prolonged inhalation at high concentration may cause lung effects.
INGESTION	No known significant effect or critical hazards.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 Extinguishing Media

SUITABLE Not applicable as the material is not combustible.
NOT SUITABLE None known.

5.2 Special Hazards arising from the Substance or Mixture

HAZARDS FROM THE SUBSTANCE / MIXTURE Not applicable as the material is no combustible.
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS No known hazardous combustion products.

5.3 Advice for Firefighters

SPECIAL PRECAUTIONS FOR FIREFIGHTERS Since PERCOLITE is not combustible, no special precautions are needed for this material. In case of fire, take precautions based on any other materials present. No action shall be taken involving any personal risk or without suitable training.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Since this material is not combustible, no special protective equipment should be required.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation.

6.1.1 For non-emergency personnel

Wear appropriate personal protective equipment.
SKIN No special requirements.
FACE / EYES Safety goggles.
CLOTHING No special requirements.
VENTILATION Avoid dust formation. If ventilation is poor use a self-contained breathing apparatus.

6.1.2 For emergency personnel

Wear appropriate personal protective equipment.
SKIN No special requirements.
FACE / EYES Safety goggles.
CLOTHING No special requirements.
VENTILATION Avoid dust formation. If ventilation is poor use a self-contained breathing apparatus.

6.2 Environmental Precautions
No significant environmental impact.

6.3 Method and material for containment and cleaning up
6.3.1 Containment procedure
No special containment procedures should be needed.

6.3.2 Clean-up procedure
Vacuum, wet sweep or wash away. Avoid generating dust. Place in a container for use or disposal.

6.3.3 Additional Information
See SECTION 13 for disposal considerations.

6.4 Reference to other sections
See SECTION 13 for disposal considerations.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for Safe handling
7.1.1 Recommendations for safe handling and storage
Do not eat, drink or smoke where this material is stored. Keep in the original container and keep tightly closed when not in use.

7.1.2 Advice on general occupational hygiene
Put on appropriate personal protective equipment (see SECTION 8). Do not eat, drink, or smoke when working with this material. Wash hands and face before eating, drinking, or smoking. Do not get in eyes. Avoid skin contact as much as possible. Do not ingest.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local regulations. Store out of direct sunlight in a dry, cool and well-ventilated area to maintain packaging integrity. Store away from incompatible materials. (See SECTION 10) Do not store in unlabelled containers. Avoid dust generation. Repair or dispose of broken bags.

Incompatible Materials: None known
Packaging Material: Use original container.

7.3 Specific end use(s)
Not applicable.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control Parameters
The DNEL (Derived No-Effect Level) for humans by inhalation, ingestion and dermal routes of exposure and the PNEC (Predicted No-Effect Concentration) for environmental exposure given below are not intended to be directly used for

setting workplace or general population exposure limits. Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health based-OEL for that chemical substance. Further, although DNELs (and PNEC's) are an indication of setting risk measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed government OELs.

No DNEL or PNEC values are known for the ingredients.
OHSA PEL: 15mg/m^3 (total dust) and 5mg/m^3 (respirable fraction) measured as an 8 hour TWA.
OHSA PEL: 50µg/m^3 (respirable silica dust ≤0.5µm) as an 8 hour TWA.

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

Use closed apparatus if possible. Use local exhaust ventilation if release of the material cannot be prevented.
Ensure adequate ventilation, do not breathe dusts; consider emission limits (see Section 8.1).

8.2.2 Personal Protection

Skin No special requirements.
Face / Eye Avoid eye contact. Do not touch or rub eyes after contact with product. Wash hands thoroughly with soap and water first.
Inhalation. Use outdoors or in a well-ventilated area. For dust concentrations above the exposure limits, use a P2 type dust mask or respirator.
Ingestion Do not eat, drink, or smoke while working with this product. Wash hands thoroughly with soap and water after using this product. Keep away from children.
Thermal None required when used as instructed.
Other Always wash hands with soap and water after use.

8.2.3 Environmental Protection

No significant environmental impact.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 information on physical and chemical properties

Physical State	Fluffy particulate
Colour	White to off-white
Odour	Not determined
Melting point / Freezing point (°C)	>1030°C
Boiling point, initial and range (°C)	No data available.
Flammability	Not flammable.
Explosion / Flammability limits	No data available.
Flash point (°C), closed cup	No data available.
Auto-ignition temperature (°C)	No data available.
Decomposition temperature (°C)	No data available.
pH	6-8 (10% aqueous solution)
Kinematic Viscosity (at 23°C)	Not applicable.
Solubility	Practically insoluble.
Partition co-efficient : n-octanol / water	No data available.

Vapour pressure	No data available.
Density and/or Relative density (at 23°C)	0.05-0.3 g/cm^3
Relative Vapour density	No data available.
Particle characteristics	By sieve analysis
	99068 GROLITE TYPE 2 ULTRA FINE: 0-1mm
	99080 GROLITE UNSCREENED: 0-8mm
	99083 GROLITE TYPE 2 COARSE: 1-8mm
	99084 GROLITE TYPE 2 FINE: 0-1mm
	99085 GROLITE TYPE 1 COARSE: 1-3mm
	99086 GROLITE TYPE 1 MEDIUM: 0-2mm
	99092 GROLITE TYPE 1 FINE: 0-1mm
	(note that particles may become smaller during transport and handling)

9.2 Other information

9.2.1 Information with regards to physical Hazard Classes

No additional information available.

9.2.2 Other Safety Characteristics

No additional information available.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

Unlikely to react under normal conditions of storage and use.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Hazardous reactions may occur under certain conditions of storage or use.

10.4 Conditions to Avoid

No data available.

10.5 Incompatible Materials

Reactive or incompatible with the following materials:

Products containing silica may react violently with hydrofluoric acid to produce toxic silicon tetrafluoride.

10.6 Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 – TOXOLOGICAL INFORMATION

11.1 Information on Hazard Classes

No information available as not classified as hazardous.

11.2 information on Other Hazards

11.2.1 Endocrine Disrupting Properties

Not listed as an endocrine disruptor on EDL List I (identified) List II (under evaluation for) or List III (has ED properties).

11.2.2 Other Information

No additional information available.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Perlite is a naturally occurring mineral and has no known ecotoxic effects. Not classified as hazardous.
Please see Section 8.1 for PNECs on individual ingredients.

12.2 Persistance and Biodegradability

No data available.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

Mobile in soil.

12.5 Results of PBT and vPvB assessment

No PBT or vPvB assessment has been carried out.

12.6 Endocrine Disrupting Properties

No data available.

12.7 Other Adverse Effects

None known.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

This material is non-hazardous when not contaminated with other material.

CONTAIN Avoid dust generation. Wear appropriate PPE (See Section 6). Sweep and scoop up into an appropriate container for disposal.
DISPOSAL Dispose of in accordance with local regulations.

SECTION 14 – TRANSPORT INFORMATION

Since this product is NOT CLASSIFIED AS HAZARDOUS, there is no applicable UN Number (14.1), Proper Shipping Name (14.2), Transport Hazard Class (14.3) or Packing Group (14.4).

14.5 Environmental Hazards

Not classified as hazardous to the environment.

14.6 Special Precautions for User

None known.

14.7 Maritime Transport in Bulk According to IMO instruments

Not applicable as never transported in bulk.

SECTION 15 – REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH EC1907/2006 Annex XIII, XIV, XVII The substance(s) in this product are not listed / not subject to restrictions.
International Agency for Research on Cancer (IARC) The substance(s) in this product are not listed / not subject to restrictions.
Australia Inventory of Industrial Chemicals (AIIC) The substance(s) in this product are listed.
New Zealand Inventory (NZIoC) The substance(s) in this product are listed.
Canada Domestic Substances List (DSL) / Non-Domestic Substance List (NDSL) The substance(s) in this product are listed.
United States Inventory (TSCA 8b)
California Proposition 65 The substance(s) in this product are not listed / not subject to restrictions.
Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act (EPCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Section 112and of the Clean Air Act (CAA) The substance(s) in this product are not listed / not subject to restrictions.

15.2 Chemical Safety Assessment

Not yet done.

SECTION 16 – OTHER INFORMATION

Changes from previous version:

Date changed	Section	Changes
2023.02.06	2, 3, 8, 11	Re-evaluated hazard after additional training and compliance with Regulation (EU) 2020/878.
	1	Confirmed emergency contact details.
	15	Confirmed regulatory information and added information for several regulations.
	16	Added abbreviations used.
2017.07.18		Initial document

Abbreviations used:

ADN	European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CAS No.	Chemical Abstract Services Number
DNEL	Derived no-effect level

EC3	Effective concentration required to produce a three-fold increase in the stimulation index
EC No.	European Community Number
ECHA	European Chemicals Agency
EWC	European Waste Code
GCL	Generic concentration limit
GLP	Good Laboratory Practice
HSNO	Hazardous Substances and New Organisms Act
IATA	International Air Transport Association
IBC	International Bulk Container
ICAO	International Civil Aviation Authority
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LD50	Lethal dose to 50% of test population
LLNA	Local lymph node assay
LT	Long term
mg/kg bw	milligrams per kilogram of body weight
mg/kg dwt	milligrams per kilogram dry weight
NOAEL	No observed adverse effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
PNEC	Predicted no-effect concentration
RID	European Agreements Concerning the International Carriage of Dangerous Goods by Rail
SCBA	Self-contained breathing apparatus
SCL	Specific Concentration Limit
ST	Short term
STOT-SE	Specific target Organ Toxicity - Single Exposure
TWA	Time Weighted Average
UN	United Nations
vPvB	very Persistent and very Bioaccumulative