

# Percolite<sup>®</sup> SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION

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### 1.1 Product identifier

Product number and name	<b>99101</b> Percolite PF10, 20kg
	<b>99102</b> Percolite PF20, 20kg
	<b>99103</b> Percolite PF30, 20kg
	<b>99104</b> Percolite PF40, 20kg
	<b>99105</b> Percolite PF50, 20kg
	<b>99106</b> Percolite PF60, 20kg
	<b>99107</b> Percolite PF70, 20kg
	<b>99108</b> Percolite PF80, 20kg
Product type	Perlite, expanded

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

Relevant identified uses	Filter aid
Uses advised against	No specific uses advised against. Avoid skin contact, eye contact and inhalation.

### 1.3 Details of the Supplier of the 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](http://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](mailto:sales@pratley.com)  
[www.pratleyminerals.com](http://www.pratleyminerals.com)

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Tel: +27-11-955-2190 Fax: +27-11-955-3918  
[exports@pratley.com](mailto:exports@pratley.com)  
[www.pratleyminerals.com](http://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 center, if available, should be contacted.
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)

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## SECTION 2 – HAZARDS IDENTIFICATION

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### 2.1 Classification of the substance or mixture

#### 2.1.1 Classification

Class	Category	Hazard Code and Statement
NOT CLASSIFIED AS HAZARDOUS		
HSNO Classification: NOT CLASSIFIED AS HAZARDOUS		

#### 2.1.2 Additional information

### 2.2 Label Elements

Hazard Pictograms	Not applicable
Signal Word	Not applicable
Hazard Statements	Not applicable
Precautionary Statements	Not applicable
Supplemental Hazard information	Not applicable

### 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 crystalline silica at <0.1%. Prolonged and or massive inhalation of respirable silica may cause lung fibrosis, commonly referred to as silicosis.

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## SECTION 3 – Composition / Information on Ingredients

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### 3.1 Substances

% [weight]	CAS No.	EC No. (Index No.)	Name	Classification	H Code(s)
100	93763-70-3	618-970-4	amorphous alumina silicate (perlite, expanded)	NOT CLASSIFIED	not applicable

For full text of H-Statements: see SECTION 16

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## SECTION 4 – First Aid Measures

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### 4.1 Description of First Aid Measures

Skin	Take off contaminated clothing. Rinse with water. Use moisturizing lotions if dryness occurs.
Eye	Immediately rinse with water for at least 10 minutes. Remove contact lenses if present and easy to do.
Inhalation	Remove from dusty area. Drink water to clear throat. Blow nose to evacuate dust.
Ingestion	Drink at least two glasses of water. Consult a physician if you feel unwell.
Notes to physician	No data available.

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

Skin	May cause skin irritation.
Eyes	May cause irritation.
Inhalation	May cause irritation.
Ingestion	None known.

See SECTION 11 for more detailed information on health effects and symptoms.

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## SECTION 5 – Fire Fighting Measures

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### 5.1 Extinguishing media

Suitable	Use measures appropriate to local circumstances and the surrounding environment.
Not suitable	None known

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

Hazards from the substance or mixture	No known significant hazards.
Hazardous thermal decomposition products	No known hazardous combustion products.

### 5.3 Advice for fire-fighters

Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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## SECTION 6 – Accidental Release Measures

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### 6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation.

#### 6.1.1 For non-emergency personnel

##### Protective equipment required

Skin	General purpose non-permeable gloves and overalls.
Face / Eyes	Safety goggles.
Clothing	No special requirements. Wash clothing thoroughly if contaminated.
Ventilation	Avoid dust formation. If ventilation is poor use a self-contained breathing apparatus.

Emergency procedure Collect and dispose of.

#### 6.1.2 For emergency personnel

##### Protective equipment required

Skin	General purpose non-permeable gloves and overalls.
Face / Eyes	Safety goggles.
Clothing	No special requirements. Wash clothing thoroughly if contaminated.
Ventilation	Avoid dust formation. If ventilation is poor use a self-contained breathing apparatus.

Emergency procedure Collect and dispose of.

### 6.2 Environmental precautions

No significant environmental impact.

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

#### 6.3.1 Containment procedure

No special containment procedure should be needed.

#### 6.3.2 Clean-up procedure

Sweep up. Avoid generation of dust.

#### 6.3.3 Additional Information

See SECTION 13 for disposal considerations.

### 6.4 Reference to other sections

See SECTION 13 for disposal considerations.

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## SECTION 7 – Handling and storage

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### 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. Avoid release to the environment. 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. Do not ingest. Avoid breathing dust.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in the original container protected from sources of ignition or direct sunlight in a dry, cool (10-40°C) and well-ventilated area, away from incompatible materials, food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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.

Ingredient (CAS No.)	Route of exposure		Exposure Limit	
			Workers	Consumers
amorphous alumina silicate (perlite, expanded) (93763-70-3)	Oral			
	Dermal			
	Inhalation	Total	OSHA, PEL - TWA: 15mg/m <sup>3</sup>	
		Inhalable	ACGIH, TLV - TWA: 10mg/m <sup>3</sup> COSHH, WEL - TWA: 6mg/m <sup>3</sup>	
	Respirable	OSHA, PEL - TWA: 5mg/m <sup>3</sup> ACGIH, TLV - TWA: 3mg/m <sup>3</sup> COSHH, WEL - TWA: 2.4mg/m <sup>3</sup>		

Where no value is given, the information is not available or no limit has been set.

## PNECs

	Fresh water	Freshwater sediments	Marine water	Marine water sediments	Food chain	Sewage treatment	Soil (agricultural)	Air	Intermittent releases
amorphous alumina silicate (perlite, expanded) (93763-70-3)									

Where no value is given, the information is not available or no limit has been set.

## 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	General purpose non-permeable gloves and overalls.
Face / Eye	Safety glasses suitable for dusts. 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.

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## SECTION 9 – Physical and Chemical Properties

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### 9.1 Information on basic physical and chemical properties

Appearance	White to off-white powder
Odour	Odourless
Odour threshold	Not applicable
pH	6 - 8 (10% solution)
Melting point / Freezing point (°C)	>1030
Boiling point, initial and range (°C)	Not applicable
Flash point (°C)	Not applicable
Evaporation rate	Not applicable
Flammability	Not flammable.
Flammability / Explosive limits	Not explosive.
Vapour pressure	Not applicable
Vapour density	Not applicable
Density (at 23°C)	2.2 - 2.4 g/ml
Solubility	Practically insoluble
Partition co-efficient : n-otonal / water	No data available.
Auto-ignition temperature (°C)	No data available.
Decomposition temperature (°C)	No data available.
Viscosity (at 23°C)	Not applicable
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

## 9.2 Other information

Not applicable

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## SECTION 10 – Stability and Reactivity

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### 10.1 Reactivity

Not reactive.

### 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

None known.

### 10.6 Hazardous decomposition products

None known.

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## SECTION 11 – Toxicological Information

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### 11.1 Information on toxicological effects

Ingredient (CAS No.)	Toxicological effect	Conditions	Findings
amorphous alumina silicate (perlite, expanded) (93763-70-3)	Acute Toxicity - oral		Not classified
	Acute Toxicity - dermal		Not classified
	Acute Toxicity - inhalation		Not classified
	Skin Corrosion/Irritation		Not classified
	Serious Eye Damage/Irritation		Mild irritant
	Skin Sensitizer		Not classified
	Respiratory Sensitizer		Mild irritant
	Germ Cell Mutagenicity		Not classified
	Carcinogenicity		Not classified
	Reproductive Toxicity		Not classified
STOT - Single Exposure		Not classified	

	STOT - Repeated Exposure		Not classified
	Aspiration Hazard		Not classified

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## SECTION 12 – Ecological Information

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### 12.1 Toxicity

Acute Toxicity No data available.

Chronic Toxicity No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

None known.

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## SECTION 13 – Disposal Considerations

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### 13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.

- Containment Avoid dust generation. Wear appropriate PPE (See Section 6). Sweep and scoop up into an appropriate container for disposal.
- Disposal Mix with soil. Where possible recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.
- EWC **15 02** \_\_ WASTE PACKAGING, ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED: absorbents, filter materials, wiping cloths and protective clothing
  - 15 02 02** (if contaminated with hazardous material)
  - 15 02 03** (if not classed as 15 02 02)

## SECTION 14 – Transport Information

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Transport Hazard Class	14.4 Packing Group
ADR				NOT CLASSIFIED AS HAZARDOUS
RID				NOT CLASSIFIED AS HAZARDOUS
ADN				NOT CLASSIFIED AS HAZARDOUS
IMO/IMDG				NOT CLASSIFIED AS HAZARDOUS
ICAO/IATA				NOT CLASSIFIED AS HAZARDOUS

Tariff Code            6806.20            Exfoliated vermiculite, expanded clays, foamed slag and similar expanded mineral materials (including intermixtures thereof)

### 14.5 Environmental hazards

Environmentally hazardous and/or Marine Pollutant            No

### 14.6 Special precautions for user

Not applicable

### 14.7 Transport in bulk according to Annex II of MARPROL 73/78 and IBC Code

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 (AICS)            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)            The substance(s) in this product are listed.

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 112(r) 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.

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## SECTION 16 – Other Information

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Full text of abbreviated H statements

Alternative names used for consumer packaging

CAS No.	Ingredient Name (IUPAC)	Name used on Consumer Packaging

Changes from previous version

Date changed	Section	Changes
2020.02.04	2, 3, 8, 11	Re-evaluated hazard after additional training.
	1	Confirmed emergency contact details.
	15	Confirmed regulatory information and added information for several regulations.
	16	Added list of abbreviations used.
2020/09.30		Change of logo

Abbreviations used

<b>ADN</b>	European Agreement concerning the International Carriage of Dangerous Goods on Inland Waterways
<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>ACGIH</b>	American Conference of Geovermental Industrial Hygienists
<b>CAS No.</b>	Chemical Abstract Services Number
<b>COSHH</b>	Control of Substances Hazardous to Health
<b>DNEL</b>	Derived no-effect level
<b>EC No.</b>	European Community Number
<b>ECHA</b>	European Chemicals Agency
<b>EWC</b>	European Waste Code
<b>GLP</b>	Good Laboratory Practice
<b>HSNO</b>	Hazardous Substances and New Organisms Act
<b>IATA</b>	International Air Transport Association
<b>IBC</b>	International Bulk Container
<b>ICAO</b>	International Civil Aviation Authority
<b>IMDG</b>	International Maritime Dangerous Goods
<b>IMO</b>	International Maritime Organization
<b>LD50</b>	Lethal dose to 50% of test population
<b>LT</b>	Long term
<b>mg/kg bw</b>	miligrams per kilogram of body weight
<b>mg/kg dwt</b>	miligrams per kilogram dry weight

<b>NOAEL</b>	No observed adverse effect level
<b>OECD</b>	Organisation for Economic Co-operation and Development
<b>OEL</b>	Occupational Exposure Limit
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PBT</b>	Persistent, Bioaccumulative and Toxic
<b>PNEC</b>	Predicted no-effect concentration
<b>RID</b>	European Agreements Concerning the International Carriage of Dangerous Goods by Rail
<b>SCBA</b>	Self contained breathing apparatus
<b>ST</b>	Short term
<b>STOT-SE</b>	Specific target Organ Toxicity - Single Exposure
<b>TLV</b>	Threshold limit value
<b>TWA</b>	Time weighted average (the average exposure to a contaminant to which workers may be exposed without adverse effects over a period such as an 8-hour day or 40-hour week)
<b>UN</b>	United Nations
<b>vPvB</b>	very Persistent and very Bioaccumulative
<b>WEL</b>	Workplace exposure limit