

MATERIAL SAFETY DATA SHEET

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Product Name: **Basalt Rock Products**

Not classified as a hazardous substance according to criteria of NOHSC

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name Basalt Rock Products
Other names Aggregates/Blue Metal/Palagonite
Recommended use Basalt has been in use for several decades in the manufacture of concrete, road base, railway ballast, road surfacing and many other civil construction and commercial building applications. Palagonite is a devitrified basaltic glass product for use as a soil conditioner.
Company Name Mount Sylvia Diatomite Pty Ltd.
Address 35 Wongoola Close, O'Conner, ACT, 2606
Emergency Tel. 02 6161 5992
Telephone/fax 02 6161 5992 Fax: 02 6248 6066

2. HAZARDS IDENTIFICATION

Basalt is not inherently toxic nor does it contain toxic impurities. High concentrations of air borne dust may cause unpleasant deposition of dust in ears, eyes and upper respiratory tract and may also reduce visibility in the workplace. Products as supplied are classified as non-hazardous according to the National Occupational Health and Safety Commission (NOHSC) criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Feldspars		42%
	Smectite Clay		22%
	Clinopyroxene		22%
	Opaque Oxide (magnetite or ilmenite)		9%
	Olivine		3%
	Calcite		1%
	Iddingsite		1%
	Zeolite		<1%

Other information This material does not contain free crystalline silica. (*reference: Joyce, A.S. Geochempet Services, Petrological and Geochemical Consultants: Maleny, Queensland).

4. FIRST AID MEASURES

There are no known health effects from the ingestion of basalt. However the following should be adopted in the case of:

Inhalation Move the victim to fresh air. Drink a glass of water to clear throat and blow nose to evacuate dust. If irritation persists seek medical attention.

NOTE: dust, though inert, may have debilitating health consequences if sufficient concentration such that the respiratory system is overloaded.

Ingestion Wash out mouth with water. If irritation persists seek medical advice.

Skin Wash gently with water and non-abrasive soap. If irritation develops and persists, seek medical attention.

Eye If contact with eye(s) occurs, wash with water while holding eyelids open. If irritation persists, seek medical attention.

First aid facilities Eye wash and normal washroom facilities.

Advice to doctor No specific information, treat symptomatically.

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5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Non-flammable, no hazardous decomposition products.
Suitable extinguisher Media: N/A.
Precautions for fire fighters: N/A.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures and method for the containment cleanup:

Wear respiratory protection and safety glasses. Vacuum where possible, otherwise dampen spilled material with water to control airborne dust. Maybe disposed of as landfill.

7. HANDLING AND STORAGE

Safe Handling/Storage: No special storage requirements necessary, however appropriate PPE (safety glasses, dust mask) should be considered.

Incompatibilities: None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards for Atmospheric Contaminates National Occupational Health and Safety Commission [NOHSC:3008(1995)] 3rd Edition:

Where no specific exposure standard has been assigned and the substance is both inherently low toxicity and free from toxic impurities, the recommended exposure standard for dusts not otherwise classified should be 10mg/cubic metre (8 hour TWA) measured as inspirable dust

Engineering controls:

Where possible work in open air or if in confined spaces use local exhaust ventilation at the point of dust generation. Wetting product with water or wetting agent can also be used as alternative to dust control.

Personal Protective Equipment:

Where engineering controls are not possible or whenever dust levels cause irritation use of an air purifying respirator (class P1) and safety glasses. Use only PPE that complies with Australian Standards.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance **Aggregates and blue metal:** Hard robust unweathered dark grey rock. Shape and texture varies from smooth and rounded to angular fragments. **Palagonite:** Soft, yellow-brown, soil-like material.

Odour	No odour
Vapour pressure	N/A
Vapour density	N/A
Boiling point/range	N/A
Freezing/Melting point	N/A
Solubility in water	Practically insoluble in water
Bulk density	2.8 tonne per cubic metre
Flammability limits	Not flammable under conditions of use.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Conditions to avoid	Avoid creating excessive dust.
Hazardous reactions	None
Hazardous decomposition products	None
Incompatible materials	None

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11. TOXICOLOGICAL INFORMATION

Information such as animal or human toxicity tests, ecotoxicity, biodegradable and persistence in soil and water is not required as this is a naturally occurring substance with no inherent toxicity or toxic contaminants.

12. ECOLOGICAL INFORMATION

Products manufactured from basalt pose no ecological threat. Products are persistent, ecologically friendly, are non-biodegradable and suitable for landfill.

13. DISPOSAL CONSIDERATIONS

Basalt can be disposed in local landfill and can be treated as a common waste. Disposal should be in accordance with local authority guidelines.

14. TRANSPORT INFORMATION

UN Number and Proper Shipping Name: None allocated

Class and Subsidiary Risk: None allocated

Packing Group: None allocated

Special precautions for user: None allocated

Hazchem Code: None allocated

15. REGULATORY INFORMATION

The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environment legislation is not available for basalt or for products produced from basalt. No specific exposure standard has been assigned and the substance is both inherently low toxicity and free from toxic impurities, the recommended exposure standard for dusts not otherwise classified should be 10mg/cubic metre (8 hour TWA) measured as inspirable dust.

16. OTHER INFORMATION

Contact person/Point Manager: Ph 61-2-61615992, Mine: 61-7-54629137

SDS History MSDS prepared December 2009 by I.R Neering, Director.

END OF MSDS