

Mt Marrow Blue Metal Quarries Pty Ltd

## MATERIAL SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Basalt Rock Products

**Other Names:** Aggregates / Blue Metal

**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.

**Supplier:** Mt Marrow Blue Metal Quarries Pty Ltd  
ABN 64 004 879 930

**Address:** 237 Mt Marrow Quarry Road  
Mt Marrow  
Queensland 4306

**Telephone:** 07 5464 4644  
**Emergency Telephone:** 07 5464 4644

### SECTION 2: HAZARDS IDENTIFICATION

**Hazard Classification - overall hazards - dangerous nature:**

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.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion (%)
Feldspars	-	69
Olivine	-	9
Opaque Oxide (magnetite or ilmenite)	-	9
Smectite Clay	-	8
Clinopyroxene	-	3
Calcite	-	2
Perovskite	-	< 1
		Total 100

\* This material does not contain free crystalline silica.

(\* reference: Joyce, A.S. Geochempet Services, Petrological and Geochemical Consultants:  
Maleny, Queensland)

## SECTION 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:

**Being Swallowed:** Wash out mouth with water; if irritation persists seek medical attention.

**Eye ingress:** Wash with water holding eyelids open, if irritation persists seek medical attention.

**Skin irritation:** Wash with soap and water, if irritation persists seek medical attention.

**Inhaled:** Remove from contamination area to fresh air and ensure airways are clear. 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.

**Advice to Doctor:** No specific information, treat symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

**Fire/Explosion Hazard:** Non flammable, no hazardous decomposition products.

**Suitable Extinguisher Media:** Not applicable.

**Precautions for fire fighters:** Not applicable.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **Emergency procedures and method for containment and cleanup:**

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

## SECTION 7: HANDLING AND STORAGE

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

**Incompatibilities:** None.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure Standards for Atmospheric Contaminates National Occupational Health and Safety Commission [NOHSC: 3008 (1995)] 3<sup>rd</sup> 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/m<sup>3</sup> (8 hour TWA) measured as inspirable dust.

### **Engineering Controls:**

Where possible work in the open air, 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.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Hard robust unweathered dark grey rock. Shape and texture varies from smooth and rounded to angular fragments.
<b>Odour:</b>	None.
<b>pH:</b>	9.3
<b>Vapour pressure:</b>	Not applicable.
<b>Vapour density:</b>	Not applicable.
<b>Boiling point/range:</b>	Not applicable.
<b>Freezing/melting point:</b>	Not applicable.
<b>Solubility in water:</b>	Practically insoluble in water.
<b>Bulk density:</b>	2.8 tonne per M <sup>3</sup>
<b>Flammability limits:</b>	Not flammable under conditions of use.

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable.
<b>Conditions to avoid:</b>	Avoid creating excessive dust.
<b>Incompatible materials:</b>	None.
<b>Hazardous decomposition products:</b>	None.
<b>Hazardous reactions:</b>	None.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

## SECTION 12: ECOLOGICAL INFORMATION

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

## SECTION 13: DISPOSABLE 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.

## SECTION 14: TRANSPORT INFORMATION

<b>UN Number and Proper Shipping Name:</b>	None allocated
<b>Class and Subsidiary Risk:</b>	None allocated
<b>Packing Group:</b>	None allocated
<b>Special precautions for user:</b>	None allocated
<b>Hazchem Code:</b>	None allocated

## SECTION 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/m<sup>3</sup> (8 hour TWA) measured as inspirable dust.

## SECTION 16: OTHER INFORMATION

<b>Issue date:</b>	March 2011.
<b>Supersedes issue date:</b>	July 2006
<b>Poisons Information:</b>	Telephone 13 11 26