

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Name of Substance: Basaltic Rock

1.2 Product Names: Igneous Rock, Gravel, Basalt, Crushed Rock, Crushed Stone,

Blue Rock. Common names includes: Aggregate, Grade A Rock, Grade B Rock, Basalt Sand, Select Borrow, Base Course, Cinder

1.3 Intended Use: Basaltic rock is a quarried, naturally occurring material used in the

manufacture of paving materials and other construction applications.

1.4 Company Name: Grace Pacific LLC

1.5 Address: Grace Pacific LLC

P.O. Box 78

Honolulu, Hawaii 96810

1.6 Telephone: (808) 674-8383 (7:30 AM – 4:30 PM, HST)

1.7 24-Hour Emergency 1-800-424-9300 (Chemtrec)

Telephone:

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

OSHA HCS (29 CFR 1910.1200) / GHS Classification

GHS Classifications: Not classified as dangerous for supply/use under GHS

Label Elements

Hazard Pictogram(s): None

Signal Word(s): None

Hazard Statement(s): Respirable dust may be released during processing, handling,

and use of basaltic rock, particularly through crushing, drilling, cutting, loading and unloading. If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can

constitute a long term health hazard.

Prevention Statement(s): Avoid actions that may cause the basaltic rock dust to become

airborne.

Avoid breathing dust.

As necessary, wear adequate protective clothing.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance/Mixture: Mixture. Basaltic rock is a mixture of angular particles, in a variety

of colors from red and grey to black. The size may range from dust to boulders. It is odorless and not flammable. Respirable dust particles may be generated by handling basaltic rock. Inhalation of excessive particulate matter may cause respiratory problems.

3.2 CAS number/other

identifiers:

Not available

3.3 Product code: Not available

Component Information:

Component	CAS number/Unique Identifier	Weight %
Olivine	1317-71-1	10
Clinopyroxene	12174-37-7	13
Plagioclase	Unknown	38
Titanomagnetite	12178-54-0	12
Microcrystalline (groundmass) Material	Unknown	11

Composition comments:

Basaltic rock is a quarried, naturally occurring material.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Inhalation: Breathing small amounts of dust during normal handling is not

likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms of inhalation exposure may include the following: irritation (nose, throat, and airways), coughing, and choking. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical

attention.

Skin Contact: Can cause dry skin and abrasions. This material is unlikely to

pass into the body through the skin. Clean exposed skin with soap

and water. Contact a physician if irritation develops.

Ingestion: Swallowing small amounts of this material during normal handling

is not likely to cause harmful effects. Swallowing large amounts may be harmful, but no more so than most other inert materials. Seek medical attention. If individual is conscious, give a large quantity of water. Contact a physician or medical facility for advice about whether to induce vomiting. If possible, do not leave

individual unattended.

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Eye Contact: Exposure to airborne dust may cause eye irritation or

inflammation. Symptoms include stinging, tearing, redness, and swelling of eyes. If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart until particles are

removed; seek medical attention if symptoms persist.

4.2 Most Important Symptoms and Effects:

Acute: Not applicable

Delayed: Not applicable

4.3 Indications of Any Immediate Medical Attention and Special Treatment:

Refer to Section 4.1.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable Extinguishing

Media:

Not applicable. Basaltic rock does not pose a fire-related hazard.

5.2 Unsuitable Extinguishing

Media:

Not applicable

5.3 Specific Hazards Arising

from the Mixture:

Avoid breathing dust.

5.4 Special Protective Equipment

and Precautions for Fire-

Fighters:

See Section 8 for guidance in selection of personal protective

equipment.

5.5 NFPA Rating Health: 1 Flammability: 0 Reactivity: 0 Special:

None

(0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Extreme)

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Avoid actions that cause dust to become airborne. Avoid inhalation of dust. Wear appropriate protective equipment as

described in Section 8.

6.2 Environmental Precautions: Basaltic rock is not subject to the reporting requirements of Title

III of SARA, 1986, and 40 CFR 372.

6.3 Methods and Material for Containment and Clean-Up:

This material is a solid and is not likely to flow.

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SECTION 7: HANDLING & STORAGE

7.1 Precautions for Safe Handling:

Comply with all applicable EPA, OSHA, NFPA, state, and local requirements. Exercise good personnel hygiene, including removal of soiled clothing and washing with soap and water.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Not applicable.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Substance	Exposure Limits	
Basaltic Rock	TLV (ACGIH): None established	
	PEL (OSHA): None established	
Olivine	TLV (ACGIH): 10 mg/m³ TWAª	
	PEL (OSHA): 15 (total dust ^b)	
Clinopyroxene	TLV (ACGIH): 10 mg/m³ TWAª	
	PEL (OSHA): 15 (total dust ^b)	
Plagioclase	TLV (ACGIH): 10 mg/m³ TWAª	
	PEL (OSHA): 15 (total dust ^b)	
Titanomagnetite	TLV (ACGIH): 10 mg/m³ TWAª	
	PEL (OSHA): 15 (total dust ^b)	
Microcrystalline (groundmass) Material	TLV (ACGIH): 10 mg/m³ TWAª	
	PEL (OSHA): 15 (total dust ^b)	

Note: Basaltic rock and its constituent minerals are not listed as carcinogens by the IARC, the National Toxicology Program, or the Occupational Safety and Health Administration.

ACGIH American Conference of Industrial Hygienists
OSHA Occupational Safety and Health Administration

TLV Threshold Limit Value.

TWA 8 hour time-weighted average.

8.2 Engineering Controls: Use local or general exhaust in an enclosed area or when there is inadequate ventilation.

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^a TLV-TWA for particulates having a quartz content of less than 1%.

^b PEL for particulates not otherwise regulated, as listed in 29 CFR 1910.1000 Z-1 Table.



8.3 Personal Protective Equipment [PPE]

Eye/Face Protection: Wear appropriate safety glasses or goggles to protect eyes from

blowing dust.

Hand Protection: Wear leather or cloth work gloves to prevent skin contact and

insulated gloves when handling hot material.

Skin and Body Protection: Wear appropriate personal protective clothing such as gloves as a

precaution. Wash dust-exposed skin with soap and water. Wash

work clothes after each use.

Respiratory Protection: Not normally required. If exposure limits to dust are expected to be

exceeded, wear an appropriate, properly-fitted NIOSH/MSHA-approved respirator. Follow manufacturer's directions for respirator

use.

Hygiene Measures: Avoid dust inhalation and direct contact with eyes. Wear suitable

protective clothing. If respiratory protection is used, institute a respiratory protection program that includes regular training, inspection, maintenance, and evaluation. Practice good personal hygiene and housekeeping procedures when using these products.





SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 Physical State: Solid

9.2 Appearance: Angular, rounded, or smooth solid material, red or

grey to black

9.3 Odor: None

9.4 Odor Threshold: Not Applicable

9.5 pH: 8-10

9.6 Melting Point: Approximately 1,000 to 1,100 °C (~1,800 to 2,000

°F)

9.7 Boiling Point (5 - 95%): Not Applicable 9.8 Flash point: Non-combustible 9.9 Evaporation Rate: Not Applicable 9.10 Flammable Lower Limit: Not Applicable 9.11 Flammable Upper Limit Not Applicable 9.12 Vapor Pressure: Not Applicable 9.13 Vapor Density: Not Applicable 9.14 Specific Gravity: Approximately 3.0 2.8-3.0 g/cm³

9.15 Density: 2.8-3.0 g/cm³
9.16 Water Solubility: Insoluble
9.17 Octanol/Water Partition Coefficient: Not Available
9.18 Auto-ignition Temperature: Not Available
9.19 Decomposition Temperature: Not Applicable
9.20 Viscosity: Not Applicable

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SECTION 10: STABILITY & REACTIVITY

10.2 Possibility of

Hazardous Reaction:

Stable.

10.3 Conditions to Avoid:

Avoid contact with incompatible materials (see Materials to Avoid

below).

10.4 Incompatible Materials:

Stable under expected conditions of use. Under unexpected conditions of use, basaltic rock may react with hydrofluoric acid,

producing corrosive silicon tetrafluoride gas.

10.5 Hazardous

Decomposition Product(s):

None.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Acute Toxicity: Basaltic rock is inert and not expected to be toxic to humans or

sensitive ecological receptors.

Inhalation (chronic): No data available.

Ingestion: No data available.

Eye Contact: Airborne dust may cause immediate or delayed eye irritation or

inflammation.

Skin Contact: No data available.

Carcinogenicity: Basaltic rock and its constituent minerals are not listed as

carcinogens by the IARC, the National Toxicology Program, or

the Occupational Safety and Health Administration.

OSHA	IARC	NTP	ACGIH
Not classifiable	Not classifiable as	Not classifiable	Not classifiable
as a human	a human	as a human	as a human
carcinogen	carcinogen	carcinogen	carcinogen

Mutagenicity: Not to be expected.

Reproductive Toxicity: Not to be expected.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity (aquatic/terrestrial): Basaltic rock is inert and not expected to be toxic to

humans or sensitive ecological receptors.

12.2 Persistence and

Degradability:

Not applicable

12.3 Bioaccumulation Potential: Not applicable

12.4 Mobility: Not applicable

12.5 Other Adverse Effects: Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal Instructions: Collect and reuse clean materials. Dispose of waste

materials in accordance with applicable federal, state, and

local laws and regulations

SECTION 14: TRANSPORT INFORMATION

14.1 Transport Information: Not regulated as hazmat by DOT. Basaltic rock is primarily

distributed in bulk shipment.

14.2 UN Number: Not applicable

14.3 Proper Shipping Name Not applicable

14.4 Transport Hazard Class Not applicable

14.5 Packing Group Not applicable

14.6 Marine Pollutant Not applicable

14.7 Special Precautions for User in

Terms of Compliance During

Transport:

None

SECTION 15: REGULATORY INFORMATION

US Federal Regulatory Information:

TSCA Chemical Inventory Section 8(b): This product and its components are listed on the TSCA Chemical Inventory.

OSHA Hazard Communication Standard: None listed

EPA Superfund Amendment & Reauthorization Act [SARA]:

SARA Section 302: This product does not contain components that have been listed on the EPA's Extremely Hazardous Substances [EHS] List.

SARA Section 304: This product does not contain components identified either as an EHS or a CERCLA Hazardous Substance, which in case of a spill or release, may be subject to SARA reporting requirements.

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SARA Section 313: This product does not contain components subject to reporting on the Toxic Release Inventory [TRI] Form R.

RCRA: If discarded in its purchased form, this product would not be a hazardous waste either by listing or characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

State Regulatory Information:

Hawaii Emergency Planning and Community Right-To-Know [HEPCRA]. Basaltic rock is not identified on the Hawaii Emergency Planning and Community Right-To-Know regulatory list.

SECTION 16: OTHER INFORMATION

16.1 Additional Information:

Revision Date: 9/21/2015. Revised from previous MSDS-Basaltic Rock No. GP-MSDS-

004 (revision # 1, 7/27/2011).

Abbreviations:

ACGIH American Conference of Governmental Industrial Hygienists

°C Celsius

CAS No. Chemical Abstract Service number

CERCLA Comprehensive, Environmental Response, Compensation and Liability

Act

CFR Code of Federal Regulations

DOT
U.S. Department of Transportation
EHS
Extremely Hazardous Substances
EPA
Environmental Protection Agency

°F Fahrenheit

g/cm³ Gram per cubic centimeter
GHS Globally Harmonized System

HEPCRA Hawaii Emergency Planning and Community Right-To-Know

IARC International Agency for Research on Cancer

mg/m³ miligrams per cubic meter

MSDS Material Safety Data Sheet

MSHA Mine Safety and Health Administration
NFPA National Fire Protection Association

NIOSH
National Institute for Occupational Safety and Health
OSHA
Occupational Safety and Health Administration

PEL Permissible Exposure Level

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NTP National Toxicological Program
 PH Negative log of hydrogen ion
 PPE Personal Protective Equipment

RCRA Resource Conservation and Recovery Act

SARA Superfund Amendments and Reauthorization Act

UN United Nations

SARA Superfund Amendment & Reauthorization Act

TLV Threshold Limit Value.
TRI Toxic Release Inventory

TSCA Toxic Substances Control Act

TWA Time Weighted Average

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