

Dakine 420, LLC.

BIO MINERALS SAFETY DATA SHEET

SECTION 1: Identification

In this section, you will find the product name which will be listed on the label as well as any contact information on the manufacturer.

Product Name:

Bio Minerals

Synonyms:

Minerals, Remineralizing Soil Booster, Volcanic Basalt, Rock Dust, Basalt Dust

Product Use Description:

Soil Amendment

Company:

Dakine 420, LLC

494 SW Veterans Way, Suite E

Redmond, OR 97756

Phone Number:

541-420-4645

SECTION 2: Hazard(s) Identification

When looking at the different classifications of the hazards this chemical meets you will see category numbers to tell you how severe the hazard is. Please remember, these numbers ARE NOT the same as the old NFPA/HMIS system. In this case, the numbering generally starts at 1 (most hazardous) and ends at 5 (least hazardous). There are letters used in certain categories as well. Always remember, the lower the number or letter, the more severe the hazard.

Classifications:

No Classifications – No Hazardous Chemicals

Pictograms:

No Necessary Pictograms **Signal**

Word:

Non-Toxic

Hazard Statements:

Non-Toxic if ingested in small amounts.

Large quantities may cause gastro-intestinal irritation.

Direct contact to eyes may cause pain or discomfort due to abrasion.

No known skin irritants.

Not harmful to throat or nasal passages, may cause lung irritation if inhaled for long periods.

Precautionary Statements –

Prevention:

No specific safety equipment required.

Gloves, Safety Glasses, and Dust Masks are recommended to avoid accidental irritation or inhalation.

Response:

If Ingested in Large Quantities: Wash out mouth with water, and ingest several glasses of water, then induce vomiting. Never give anything by mouth to an unconscious person. Contact a physician immediately.

If in Eyes: Gently rinse with lukewarm water or a saline solution for at least 15 minutes while holding eyelid(s) open.

Remove Contacts if possible and rinse again. Do not attempt to remove large material from eye(s). Contact a physician if irritation occurs.

If Irritating Skin: Gently and carefully brush away basalt from irritated areas. Rinse with warm water and brush carefully with a damp cloth. Wash exposed clothes, and contact a physician if irritation persists or worsens.

If Inhaled: Move source of dust away from person, or move victim to source of fresh air. Dust should clear naturally from nasal and throat passages. If victim is not breathing, give artificial respiration and Contact a physician immediately. Prolonged and chronic exposure to inhaling basalt dust may lead to further complications (See Section 11 for specific information).

Storage:

Non-Dangerous, Store in a Dry Place.

Disposal:

Basalt is a naturally occurring biodegradable element. No special disposal required. Always follow local regulations.

SECTION 3: Composition/Information on Ingredients

This section lists the ingredients of this chemical. For Exposure limits please refer to section 8 of this document

Component	Weight %
Calcium (Ca)	1.20%
Sulfur (S)	1.90%
Cobalt (Co)	0.0014%
Iron (Fe)	3.25%
Manganese (Mn)	.12%

Non-Nutritive Metals	Level Found mg/kg
Arsenic (As)	5.83
Cadmium (Cd)	.17
Cobalt (Co)	15.4
Lead (Pb)	8.2
Molybdenum (Mo)	.08
Nickel (Ni)	14.7
Selenium (Se)	BDL (Below Detection Limit)
Zinc (Zn)	77.06
Mercury (Hg)	0.17
Copper (Cu)	16.2

SECTION 4: First-Aid Measures

This area will tell you what to do if there is an exposure to this chemical. If there is an exposure situation that requires emergency care, remember to bring a copy of this document as there are specific physician notes listed.

If Ingested in Large Quantities:

Wash out mouth with water, and ingest several glasses of water, then induce vomiting. Never give anything by mouth to an unconscious person. Contact a physician immediately.

If in Eyes:

Gently rinse with lukewarm water or a saline solution for at least 15 minutes while holding eyelid(s) open. Remove Contacts if possible and rinse again. Do not attempt to remove large material from eye(s). Contact a physician if irritation occurs.

If Irritating Skin:

Gently and carefully brush away basalt from irritated areas. Rinse with warm water and brush carefully with a damp cloth. Wash exposed clothes, and contact a physician if irritation persists or worsens. **If Inhaled:**

Move source of dust away from person, or move victim to source of fresh air. Dust should clear naturally from nasal and throat passages. If victim is not breathing, give artificial respiration and Contact a physician immediately. Prolonged exposure may lead to shortness of breath, cough, fever, and chest pain.

Notes to Physician:

Basalt is inert and will not cause chemical damage to the body. Inhalation or ingestion of large quantities of basalt dust may cause micro abrasions to internal soft tissues. Prolonged or excessive exposures to basalt dust may lead to further complications. See Section 11 for more information.

SECTION 5: Fire-Fighting Methods

This section lists how to extinguish a fire but more importantly any specific hazards that can be created should this product burn.

Basalt is non-flammable.

SECTION 6: Accidental Release Measures

Basalt is naturally occurring and biodegradable. If spilled, it can be disposed of according to local laws, or mixed with local soil or other biodegradable absorbent materials.

SECTION 7: Handling and Storage

Critical information on how this chemical will react to certain physical conditions will be listed here as well as safe storage conditions.

Basalt must be kept in a dry location. Exposure to moist conditions for long periods may lead to oxidization and dissolving of minerals which may reduce the effectiveness of this product.

SECTION 8: Exposure Controls/Personal Protection

This section will go into more detail for any safety equipment necessary or recommended for this chemical.

Engineering measures:

Adequate ventilation is recommended to prevent inhalation of basalt dust and to maintain air concentrations below exposure standard.

Eye protection:

Safety glasses are recommended where there is a possibility of basalt dust or larger particles splashing into the eyes.

Hand protection:

Impervious gloves are recommended if your skin is irritated or sensitive to basalt dust or particles.

Skin and Body protection:

Thick clothing such as overalls are recommended if you will be exposed to basalt dust for prolonged periods.

Respiratory protection:

A dust mask or respirator meeting the requirements of AS1715 and AS1716 are recommended.

Work/Hygiene practices:

Always wash hands before eating, drinking or using the toilet

SECTION 9: Physical and Chemical Properties

Important information in this area could include, flash point, upper and lower explosive limits, and vapor density.

Appearance:

Dark gray or black, ranges in size from fine dust to sand

Odor:

Odorless

pH:

7.5

Melting point:

1250C

No Freezing Point

No Boiling Point

No Vapor Point

No Flash Point

No Explosive Point

Specific Gravity:

2.6-2.81

SECTION 10: Stability and Reactivity

This section describes the reactivity hazards of the chemical and the chemical stability information. This section is broken into three parts:
reactivity, chemical stability and other.

Reactivity:

Stable.

Chemical Stability:

Stable.

Incompatibility:

Reacts with hydrofluoric acid.

Conditions to avoid:

None

Hazardous Polymerization:

Will not occur.

SECTION 11: Toxicological Information

This section contains information on routes of entry and conditions that can result from both short (acute) and long term (chronic) exposure. If this product contains a chemical that has been known to cause cancer (carcinogen) it will be listed in this section.

Cannot be absorbed by the skin or eyes.

Aspiration hazard if inhaled into lungs. Aspiration may lead to coughing, wheezing, throat and lung irritation, and shortness of breath.

Chronic and prolonged aspiration of basalt and other silica containing dust for periods of six months or more can cause further complications such as shortness of breath, diminished work capacity, cough, fever, right heart enlargement and/or failure, weight loss, and chest pain. Excessive inhalation of dust may result in respiratory disease.

SECTION 12: Ecological Information

Basalt is naturally occurring and biodegradable and is not harmful to plants, animals, or waterways.

SECTION 13: Disposal Considerations

Always dispose of containers and unused contents in accordance with federal, state and local requirements.

SECTION 14: Transport Information

Proper Shipping Name: Basalt Rock

Description of goods: Ground basalt rock powder

Class: 50

Harmonized Tariff Schedule:

2517.48.00

(Granules, chippings, and powder of stones of schedule 2515 or 2516.)

SECTION 15: Additional Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty for quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.