

# MATERIAL SAFETY DATA SHEET

Basalt (Pulverized Volcanic Rock)

## SECTION 1: PRODUCT INFORMATION

Material Name / Identifier: TUFF ASH 65  
Basalt (Pulverized Volcanic Rock)

Supplier's Name: Creation Minerals  
Lakefield, ON K0L2H0

Product Use: Soil amendment

## SECTION 2: HAZARDOUS INGREDIENTS

Chemical Identity	Percent	CAS #	PIN #	LD <sub>50</sub>	LC <sub>50</sub>
Dark Hard Volcanic Rock	80-95	None	None	N/A	N/A
(Fine Grained) Quartz	5-20	14808-60-7	None	N/A	N/A

## SECTION 3: PHYSICAL DATA

Physical State: Solid

Odour / Appearance: No odour; angular grey / black / white particles of varying sizes

Odour threshold: N/A

Specific Gravity: 2.5-2.8

Coefficient of water/oil distribution: N/A

Vapour Pressure: N/A

Boiling Point: N/A

Freezing Point: N/A

pH: N/A

Vapour Density: N/A

Evaporation Rate: N/A

Percent Volatile: 0

## SECTION 4: FIRE / EXPLOSION HAZARD

Conditions of Flammability: N/A

Means of Extinction: N/A

Explosion Data: N/A

Flashpoint: N/A

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

Autoignition Temperature: N/A

Hazardous Combustion Products: N/A

## SECTION 5: REACTIVITY DATA

Stability: N/A

Incompatible Materials: None known

Hazardous Decomposition Products: None known

## SECTION 6: TOXICOLOGICAL PROPERTIES

Route of Entry: Skin contact, eye contact, inhalation

Effects of Acute Exposure: Exposure to dust may irritate eyes, skin or respiratory system

Effects of Chronic Exposure: Prolonged inhalation of the silica content in the dust may lead to a lung disease known as silicosis. Symptoms include shortness of breath, persistent cough and sputum. In acute cases, respiratory failure may occur resulting in death. Detection of silicosis is provided by chest X-ray.

Exposure Limits: TWAEL\*: 0.10 mg/m<sup>3</sup>  
\* Time Weighted Average Exposure Level for silica (RRO 1990, Reg. 845). Worker exposure to silica must be reduced to the lowest practical level. Effort should be made to reduce exposure to at most 0.10 mg/m<sup>3</sup>.

Irritancy of Product: Eye Contact: Mechanical irritation may result in eye irritation, redness, scratching and tearing.  
Skin Contact: Mechanical irritation may result in dryness, itching or redness.  
Inhalation: Symptoms may include coughing, sneezing and irritation of the throat and nose. See above for chronic inhalation result and potential for the development of silicosis.

Carcinogenicity: IARC MONOGRAPH VOLUME 68, 1997 concludes that there is sufficient evidence that inhaled crystalline silica causes cancer in humans. IARC classification: Group 1

## SECTION 7: PREVENTATIVE MEASURES

### PERSONAL PROTECTIVE EQUIPMENT

Gloves:	Work gloves recommended
Respiratory:	Avoid inhalation of dust. Use NIOSH-approved respirator suitable for the airborne concentration level and in compliance with the OSHA.
Eye:	Safety glasses with a side shield should be worn as a minimum protection. Dust goggles should be worn when excessively dusty conditions occur.
Other Equipment:	Protective work clothing should be worn and cleaned after removal. Do not clean by blowing or shaking.

### ENGINEERING CONTROLS

Proper ventilation is necessary where harmful concentrations of quartz silica may arise. Ventilation systems must be designed and maintained through regular cleaning / replacement of air filters. Consult a reliable text such as Industrial Ventilation, a Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists when designing the system.

### LEAK & SPILL PROCEDURES

Observe Personal Protective Equipment recommendations when cleaning up spilled material to protect personnel from dust exposure. A fine water spray may be used to reduce dust hazard.

Waste Disposal:	Re-use material where possible. Waste material must be disposed of in accordance with applicable federal, provincial and local laws or regulations.
Handling Procedures & Equipment:	Refer to sections above for Personal Protective Equipment required.
Storage Requirements:	N/A
Special Shipping Information:	N/A

## SECTION 8: FIRST AID MEASURES

Dust Inhalation:	Remove to fresh air. If symptoms persist, contact a physician.
Eye Contact:	Wash eyes with large amounts of water. If irritation persists, contact a physician.
Skin Contact:	Wash thoroughly with soap and water.

## SECTION 9: PREPARATION INFORMATION

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