

# Safety data sheet (SDS)

## St-Isidore Asphalte Ltee

19 Duclos Street, Saint-Isidore, NB, Canada, E8M 1G9

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### Section 1: Identification

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Product name: Huplaso – A solution for sustainable agriculture

Synonyms: Huplaso, Rock Dust, Basalte rock dust, Volcanic Basalte, Basalte

Product use description: Mineralizer, pH neutralizer, soil amendment

Restrictions on use: None known

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### Section 2: Hazard(s) identification

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Classification: 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  
Non known skin irritants  
Not harmful to throat or nasal passages, may cause lung irritation if inhaled for long periods.

Prevention: No specific safety equipment required.  
Its recommended to wear safety glass, gloves and dust masks are recommended to avoid accidental irritation or inhalation.

**If product is ingested in large quantities:** Rinse mouth with water and drink several glasses of water, then induce vomiting. Contact a doctor immediately.

**If in eyes:** Rinse gently with lukewarm water or saline solution for at least 15 minutes while holding eyelids open. Remove contact lenses if possible and rinse again. Contact a doctor.

**If skin irritation:** Gently and carefully brush the irritated areas until there is no more basalt. Rinse with lukewarm water and brush thoroughly with a damp cloth. Wash exposed clothing and contact a doctor if irritation persists or worsens.

**If inhaled:** Move the dust source away from the person inhaling it or take the person outdoors to breathe fresh air. Dust must naturally escape from the nasal passages and the throat. If the person is not breathing, be sure to give artificial respiration and contact a physician immediately. Prolonged and chronic exposure to inhalation of basalt dust may result in more frequent complications.

Storage: Not dangerous, store in a dry place.

Dispose: No special requirement for this type of product, it is biodegradable

### Section 3: Composition/Information on Ingredients

#### Oxides

Aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ).....	13.79%	Calcium oxide (CaO).....	15.07%
Carbon dioxide (CO <sub>2</sub> ).....	7.60%	Iron oxide (Fe <sub>2</sub> O <sub>3</sub> (T)).....	10.12%
Potassium oxide (K <sub>2</sub> O).....	1.34%	Magnesium oxide (MgO).....	4.20%
Manganese oxide (MnO).....	0.224%	Sodium oxide (Na <sub>2</sub> O).....	3.14%
Phosphorus pentoxide (P <sub>2</sub> O <sub>5</sub> ).....	0.42%	Titanium dioxide (TiO <sub>2</sub> ).....	2.362%
Silicon dioxide (SiO <sub>2</sub> ).....	37.90%		

#### Others elements

Silver(Ag).....	0.7ppm	Nickel(Ni).....	50ppm
Arsenic(As).....	1.4ppm	Neodymium(Nd).....	30ppm
Gold(Au).....	1.2ppb	Praseodymium(Pr).....	7.56ppm
Boron(B).....	12ppm	Rubidium(Rb).....	26ppm
Barium(Ba).....	1.479ppm	Rhodium(Rh).....	0.2ppb
Beryllium(Be).....	1ppm	Sulfur(S).....	0.120%
Cerium(Ce).....	64.6ppm	Antimony(Sb).....	0.4ppm
Cobalt(Co).....	29ppm	Scandium(Sc).....	17.8ppm
Chromium(Cr).....	60ppm	Samarium(Sm).....	6.3ppm
Cesium(Cs).....	0.5ppm	Tin(Sn).....	1ppm
Copper(Cu).....	60ppm	Sulfate(SO <sub>4</sub> ).....	0.31%
Dysprosium(Dy).....	5.1ppm	Strontium(Sr).....	381ppm
Erbium(Er).....	2.7ppm	Tantalum(Ta).....	2.6ppm
Europium(Eu).....	2.14ppm	Terbium(Tb).....	0.9ppm
Gallium(Ga).....	18ppm	Thorium(Th).....	3.8ppm
Gadolinium(Gd).....	5.9ppm	Thallium(Tl).....	0.2ppm
Germanium(Ge).....	1ppm	Thulium(Tm).....	0.38ppm
Hafnium(Hf).....	4.0ppm	Uranium(U).....	1.2ppm
Holmium(Ho).....	1.0ppm	Vanadium(V).....	267ppm
Lanthanum(La).....	30.8ppm	Yttrium(Y).....	24ppm
Lithium(Li).....	19ppm	Ytterbium(Yb).....	2.3ppm

Lutetium(Lu).....	0.34ppm	Zinc(Zn).....	100ppm
Niobium(Nb).....	38ppm	Zirconium(Zr).....	194ppm

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Section 4 : First-Aid Measures

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**If product is ingested in large quantities:** Rinse mouth with water and drink several glasses of water, then induce vomiting. Do not wear anything to the mouth of an unconscious person. Contact a doctor immediately.

**If in eyes:** Rinse gently with lukewarm water or saline solution for at least 15 minutes while holding eyelids open. Remove contact lenses if possible and rinse again. Do not attempt to remove the product from the eyes, contact a doctor if irritation occurs.

**If skin irritation occurs:** Gently and carefully brush the irritated areas until there is no more basalt. Rinse with lukewarm water and brush thoroughly with a damp cloth. Wash exposed clothing and contact a physician if irritation persists or worsens.

**If inhaled:** Move the dust source away from the person inhaling it or take the person outdoors to breathe fresh air. Dust must naturally escape from the nasal passages and the throat. If the person is not breathing, be sure to give artificial respiration and contact a physician immediately. Prolonged and chronic exposure to inhalation of basalt dust may result in more frequent complications.

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Section 5 : Fire-Fighting Methods

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Basalt dust is non-combustible

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Section 6 : Mesure à prendre en cas de déversements accidentels

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Basalts is a natural and biodegradable product. If spill, it may be disposed of according to local regulations, or mixed directly with the soil or with other absorbent and biodegradable products.

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Section 7 : Handling and storage

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Basalt should be stored in a dry place. If the product is in contact with moisture for too long, the product texture changes and oxidation may cause it to lose its properties.

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Section 8: Exposure controls/Personal protection

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**Appropriate Engineering Control:** Appropriate ventilation is recommended to prevent inhalation of basalt dust and to maintain air concentration below the exposure standard.

## **Protection;**

-**Eyes:** Safety glasses are recommended if there is a possibility that basalt dust or larger particles come enter in contact with the eyes.

-**Hands:** Glove is recommended when handling the product if your skin is sensitive and tend to react with basalt dust.

-**Skin:** If you think you will be in contact for a long time, it is recommended to wear clothes that cover the whole body like an overall.

-**Inhalation:** Since it's a volatile product, it's recommended to wear a dust mask to reduce the risk of inhalation.

-**Hygiene:** Always wash your hands before eating, drinking or going to the toilet after making use of basalt dust.

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## Section 9 : Physical and chemical properties

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**Appearance:** Dark gray, fine or sandy dust

**Odor:** Odorless

**pH:** 8.57

**Melting point:** 1250c

**No freezing point**

**No boiling point**

**No steam**

**No breaking point**

**No explosion point**

**Specific gravity:** 2.80 - 2.8

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## Section 10 : Stability and Reactivity

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**Reactivity:** Stable

**Chemical Stability:** Stable

**Hazardous Reactions:** None known

**Condition to avoid:** None

**Incompatible materials:** Reacts in contact with hydrofluoric acid

**Hazardous decomposition products:** No

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## Section 11 : Toxicological Information

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Cannot be absorbed through eyes or skin.

Risk of aspiration if inhaled to lungs. Aspiration may lead to coughing, fatigue, throat irritation, lungs and shortness of breath. Chronic prolonged aspiration of basalt and other dusts containing silica for a period of six months or more may cause other complications such as shortness of breath, decreased work capacity, cough, fever , Heart problems, weight loss and chest pain. Excessive dust inhalation can lead to respiratory illness.

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Section 12 : Ecological Information

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The Basalt is a product that comes from the earth that is natural. It is biodegradable and is not harmful to people, animals, plants and streams.

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Section 13 : Disposal Consideration

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Dispose of unused packaging and contents in accordance with federal and local requirements.

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Section 14 : Transport information

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Transportation information;

Do not regulate as a dangerous commodity.

Do not regulate as a hazardous substance.

Description of the goods: Basalt Rock

Description of product shipped: Basalt rock dust

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Section 15: Regulatory Information

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Not available

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Section 16 : Other Information

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