

# BLACK EARTH

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT INFORMATION

**Product Identifier:** BlackEarth Dry

**Also known as:** **Powder / Mini-Granule**

**CAS#:** 129521-66-0

**Supplier's Name:** Black Earth Humic LP

**Address:** 16221-123 Ave

**City:** Edmonton

**Province:** Alberta, Canada

**Postal Code:** T5V 1N9

**Emergency Telephone Number:** 780-453-2100

### 2. HAZARDOUS INGREDIENTS

The product is a naturally occurring complex mixture that can contain crystalline silica.

### 3. PHYSICAL DATA

**Physical State:** Solid

**Odor:** Odorless

**Odor Threshold:** Not applicable

**Vapour Pressure:** Negligible

**Vapour Density:** Not applicable

**Evaporation Rate:** Not applicable

**Boiling Point:** Does not form liquid

**pH:** 3.2 – 4.0

**Appearance:** Blackish/brown

**Bulk Density:** 790 kg/m<sup>3</sup> (Packed)

**Coefficient of Water/Oil Distribution:** Not available – product may contain up to 35% moisture.

**Percent Volatile (non-water):** 0%

**Moisture Variation:** The product may lose (or gain) moisture over time, dependent on humidity and temperature conditions and on exposure of product surfaces to the environment.

### 4. FIRE AND EXPLOSION HAZARD

**Flammability:** Not considered a fire hazard.

**Means of Extinction:** Use media appropriate for surrounding fire.

**Special Procedures:** Use protective clothing and breathing equipment appropriate for surrounding fire.

**Irritacy of Product:** Dust causes irritation. Skin contact and ingestion are not considered hazardous.

**Sensitization to Products:** Negligible.

**Dust Explosion Hazard:** Not considered an explosion hazard.

**Minimum Ignition Temperature:** Not considered a fire hazard.

**Minimum Explosive Concentration:** Not considered an explosion hazard.

**MIE:** Not applicable.

**Hazard Combustion Products:** Not applicable.

**Explosion Data:** Sensitivity to Impact - Not sensitive.

**Explosion Data:** Sensitivity to Static Discharge - Not sensitive.

**Susceptibility to Spontaneous Heating/Combustion:** Not applicable.

### 5. REACTIVITY DATA

**Chemical Stability:** The product is stable under ambient conditions.

**Incompatibility with Other Substances:** Non-reactive.

**Reactivity:** Not applicable

**Hazardous Decomposition Products:** Not applicable

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### 6. TOXICOLOGICAL PROPERTIES

**Route of Entry:** Inhalation

**Effects of Acute Exposure to Product:** Airborne respirable dust may cause irritation to the nose, throat and lungs. Dust particles may mechanically irritate the eyes and impair vision.

**Effects of Chronic Exposure to Product:** Prolonged and/or repeated exposure via inhalation may result in progressive and permanent lung disorders and damage. Dust has been related to silicosis.

**Irritancy of Product:** Dust causes irritation as noted above. Skin contact and ingestion are not considered hazardous.

**Sensitization to Products:** Negligible.

**Carcinogenicity:** Not considered a human carcinogen.

**Teratogenicity:** Not established.

**Reproductive Toxicity:** Not established

**Mutagenicity:** Not established.

**Synergistic Products:** None established.

**Free Si:**  $\leq 3\%$

### 7. PREVENTATIVE MEASURES

**Personal Protective Equipment:** An approved (NIOSH/MSHA) respirator equipped with a dust filter, approved for silica bearing dust, should be worn when exposed to the product under dust generating conditions. Disposable units are normally satisfactory for short-term or intermittent exposure.

The use of additional personal protective equipment varies with severity of conditions. Safety goggles, coveralls and protective footwear are recommended when handling bulk quantities of the product.

**Engineering Controls:** Local exhaust ventilation and confinement of handling systems may be required to control exposure to dust.

**Leak and Spill Procedure:** Take steps to control product discharge to the environment. Notify appropriate authorities immediately and arrange for recovery of spilled material.

**Waste Disposal:** Ensure waste material is disposed of in accordance with applicable environmental regulations, including local requirements.

**Handling Procedures and Equipment:** Minimize generation of dust during handling. Provide adequate ventilation. Be aware of dust explosion hazard.

**Storage Requirements:** Store in dry place. Keep product containers closed or covered where possible.

**Exposure Limits:** The American Conference of Governmental Industrial Hygienists recommends  $\leq 2 \text{ mg/m}^3$  of respirable dust (TWA limit).

**DOT Classification:** Not Classified.

### 8. FIRST AID MEASURES

**Inhalation:** Inhalation of dust alone is unlikely to result in an emergency situation. If necessary, use adequate respiratory protection and remove victim to fresh air. Get prompt medical attention if breathing difficulty is evident.

**Eye Contact:** Flush eyes with large amounts of water to remove residual dust particles. Get medical attention if irritation persists.

**Skin Contact, Ingestion:** First aid is usually not necessary.

### 9. PREPARATION

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