

# Material Safety Data Sheet

**Product Name : Soilcharge Living Earth**

Date : 03/01/2013

## COMPANY NAME AND ADDRESS

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## PRODUCT IDENTIFICATION

Product Name: Soilcharge Living Earth  
Other Names: Screened moist selected lignite.  
Soilcharge has been tested in the UN Self Heating Test and as a result has been classified as a non, self-heating substance.

Dangerous Goods Class: N/A  
UN Number: N/A  
Subsidiary Risk: N/A  
HazChem Code: N/A  
Packaging Group: N/A  
Poisons Schedule No: N/A  
Use: Soil Conditioner

## PHYSICAL DESCRIPTION/PROPERTIES

**Appearance:** Dark Brown Granules  
**Specific Gravity:** 0.75g/cm<sup>3</sup>  
**pH:** 4.0 – 5.5

**Volatiles (%w/w, dry basis):** 51%

**Flammability Limits:** Dust Concentration 0.04 – 7.0 Kg/m<sup>3</sup>

**(when dry):** Oxygen Concentration **!Y8%**

### Other Properties:

Possible dust explosion hazard if air borne dried dust concentration of 0.04 to 7.0 Kg/m<sup>3</sup> and Oxygen concentration **!Y8%**. No dust explosion possible if dried dust concentration >7 Kg/m<sup>3</sup> or oxygen concentration < 8%. Dust is moderately corrosive.

**Ingredients:** Moist lignite typically consists of:

Carbon 67% (dry basis)

Hydrogen 4.5% (dry basis)

Nitrogen 0.6% (dry basis)

Sulphur (total) 0.3% (dry basis)

Oxygen 26% (dry basis)

Moisture 60 – 70% (as received basis)

Ash 2%

Crushed Basalt

**CAS Number:** RN 129 521 – 66 – 0 (LIGNITE)

**Proportion:** 100%

### **HEALTH HAZARD INFORMATION:**

#### **Health Effects:**

**Acute Ingestion:** Mild irritant.

**Eye:** Nuisance only. Dust causes mild eye irritation.

**Skin:** Nuisance only. Dust is not absorbed through skin.

**Inhaled:** Not a serious respiratory hazard, although heavy exposure to dust causes symptoms of low grade breathlessness, wheeze and phlegm. Smoking appears to aggravate symptoms. No evidence of statistical or clinical difference in lung function parameters.

**Chronic:** There have been no reports in the literature of health effects in workers arising from long term exposure to this substance.

## **First Aid:**

**Eye:** Irrigate with water or neutral saline solution. Seek medical attention for embedded foreign bodies.

**Skin:** Wash off after dust contact.

**Inhaled:** If large amounts of dust inhaled, remove from area. Do not smoke as smoking aggravates symptoms.

**First Aid Facilities:** Water or neutral saline solution for eye wash.

**Advice to Doctor:** It is exceedingly unlikely that acute poisoning would develop from raw lignite particles or dust.

Treatment should be supportive, as there is no specific antidote.

## **PRECAUTIONS FOR USE:**

**Exposure Standards:** 10mg/m<sup>3</sup> for dried lignite fines (8 hour TWA)

**Engineering Controls:** Seal lignite as much as possible. This will maintain moisture content thereby reducing risk of dry lignite dust. Reduce drop heights and impacts during handling to reduce dust levels. Ensure ventilation is adequate to maintain concentrations of dust in air to below exposure standards.

**Personal Protection:** Goggles and dust mask recommended during handling of bulk product when dust is generated.

**Flammability:** Non flammable and shows no pyrophoric tendencies.

## **SAFE HANDLING INFORMATION:**

**Storage and Transport:** Handle and store in sealed containers to minimise dust release and oxidation.

**Spills and Disposal:** No smoking within 50 metres. Shovel up spillage. Build up of fines and drying out of lignite should be avoided.

**Fire Explosion/Hazard:** Good housekeeping in storage areas is important to minimise dry dust accumulation. Minimise build up of dust areas.

**Asphyxiation Hazard:** In enclosed storage containers and hoppers, the oxygen level should be measured before entry due to the possible depletion of oxygen levels. Alternatively, use self contained breathing apparatus.

*All information, recommendations and suggestions herein concerning this product are based upon data believed to be reliable at the time of printing.*

*However it is the user's responsibility to determine the safety, toxicity and suitability of this product for his/her own use .*

*Since the actual use by others is beyond our control, we make no guarantee expressed or implied as to the effects of such use, the results to be obtained, or the safety and toxicity of the product. This information is not to be construed as absolutely complete, since additional information may be necessary or desirable when exceptional conditions or circumstances exist or because of applicable laws or government regulations.*