

MATERIAL SAFETY DATA SHEET

For Rhizo- Groundnut™

Date of last amendment: 21/6/2013

1. IDENTIFICATION OF THE SUBSTANCE

- **Product name:** Rhizo-Groundnut™
- **Supplier:** SINERIA HOLLAND BV
Randwycksingel 20-A015
6229 EE Maastricht The Netherlands
www.sineria.com

2. HAZARDS IDENTIFICATION

- Product of low toxicity
- None known chronic health hazards and not expected to have carcinogenic or mutagenic properties.

3. COMPOSITION / INFORMATION ON INGREDIENTS

- *Bradyrhizobium* sp. (*Vigna*) bacteria, minimum 6.5×10^8 viable cells / g., a live legume non-pathogenic bacteria.

4. FIRST AID MEASURES

- **General advice:** If poisoning occurs, contact a doctor or the Poisons Information Centre.
- **Ingestion:** The product is not considered toxic if swallowed. However, if ingested and there are signs of sickness, contact a doctor or the Poisons Information Centre.
- **Inhalation:** No hazards are expected that require special first aid measures.
- **Skin contact:** Flush skin with water after contact. No hazards are expected that require special first aid measures.
- **Eye contact:** In case of eye contact, flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

5. FIRE-FIGHTING MEASURES

- **Suitable extinguishing media:** Use water spray, chemical foam or dry extinguishing powder.
- **Specific hazards:** Decomposed products include mainly nitrogen and carbon oxides.
- **Special protective equipment:** Wear protective clothing and use self-containing breathing apparatus.
- **Specific methods:** Make a dike to prevent run-off and contamination of water sources. Reduce the temperature of exposed packages using water in case of fire in the area.

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions:** Wear appropriate safety clothing during clean-up activities.
- **Methods for cleaning-up:**
 - Recover the remaining material as appropriate, preferably using a vacuum or scoop.
 - Place contaminated material in appropriate container for disposal according to local procedures and regulations.
 - Do not flush material to public sewer systems or any waterways.
 - Ensure adequate decontamination of tools and equipment following clean-up.

7. HANDLING AND STORING

- **Handling:** Use good personal hygiene. Do not ingest or inhale. Avoid contact with eyes or skin.
- **Storage:**
 - The product should be stored in compliance with local regulations.
 - Store in a cool dry place in the original container, away from excessive heat and open flame.
 - It is recommended to be stored in a fridge (4°C) if not used after soon after purchase.
 - Do not store near food, animal feeding stuff, fertilizers or seeds.
 - Keep out of reach of children.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- **Toxicity:** Low toxic material
- **Eye/Face protection:** Goggles and dust safety masks.
- **Skin and body protection:** No special protective clothing is required.
- **Hygiene measures:** Wash hands and exposed skin before eating, drinking or smoking after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **State:** Solid powder
- **Colour:** Dark
- **Odour:** Slight
- **Bulk density:** 1.4 – 1.7 gr/ml
- **Melting point (°C):** Not applicable
- **Flash point (°C):** Not applicable
- **Auto ignition temperature (°C):** Not applicable
- **Vapour pressure (mm Hg):** Not applicable

10. STABILITY AND REACTIVITY

- **Stability:** Stable under normal conditions
- **Conditions to avoid:** Open flames or other high temperature sources, which might induce thermal decomposition.
- **Hazardous decomposition products:** Not expected

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity Oral:** LD50 ≥ 5000 mg/kg (M + F)
- **Acute toxicity Dermal (rat):** LD50 ≥ 5000 mg/kg (M + F)
- **Skin irritation (rabbit):** None
- **Eye irritation (rabbit):** Mild irritant
- **Long term toxicity:** None
- **Chronic toxicity:** Non- carcinogenic, non-teratogenic, non-mutagenic. Not harmful on laboratory animals.

12. ECOLOGICAL INFORMATION

- **Mobility:** Does not leak to ground water
- **Bio-degradable product,** not persistent in the environment.

13. DISPOSAL CONSIDERATION

- **Wastes from residues / unused products:** Dispose of in accordance with local state and federal regulations. Do not contaminate water, food or feed by storage or disposal.
- **Contaminated packaging:** Same as indicated for wastes from residues/ unused products above.

14. TRANSFORMATION INFORMATION

- **Proper shipping name:** Non Hazardous Product.

15. REGULATORY INFORMATION

- Non Hazardous Product, therefore it doesn't need to be labeled.

16. OTHER INFORMATION

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for with other materials or in processes other than those specifically described herein.

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