



## **MATERIAL SAFETY DATA SHEET**

For Rhizo-Bean™

Date of last amendment: 21/6/2013

### **1. IDENTIFICATION OF THE SUBSTANCE**

- **Product name:** Rhizo-Bean™
- **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**

- *Rhizobium leguminosarum* biovar. *phaseoli* bacteria, minimum  $5 \times 10^8$  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.

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## 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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