

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: **RHIZOFLO**
Product Use: Bacterial inoculant for soybean seeds

Name of Supplier: **BASF Agricultural Specialities (Pty) Ltd**
PO Box 15132
ASHWOOD 3605
SOUTH AFRICA

Emergency telephone: + 27 31 769 2003
Fax: + 27 31 769 2026

Address of Manufacturer: Harwood Industrial Estate Telephone: +44 (0)1903 732323
Harwood Road Fax: +44 (0)1903 732266
Littlehampton
West Sussex BN17 7AU
UK

Responsible Person: John Godliman
Emergency Telephone Number: +44 (0)7866 458 878

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation: LIQUID BASED PREPARATION OF *RHIZOBIUM* BACTERIA

Chemical/biological name	Concentration	CAS Number	EC Number	R Phrases	Symbols
<i>Bradyrhizobium japonicum</i>	5 x 10 ⁹ cfu/ml	None	None	None	None

3. HAZARDS IDENTIFICATION

Physicochemical: NON HAZARDOUS
Health: MAY CAUSE IRRITATION TO EYES
Environmental: THE PRODUCT IS HARMLESS TO THE ENVIRONMENT

4. FIRST AID MEASURES

Contact with skin - not irritating, but as a precautionary measure, wash affected area with plenty of soap and water
Contact with eyes - may cause mild irritation, therefore wash out with plenty of water for 15 minutes and seek medical advice if irritation develops
Ingestion - non-toxic, wash mouth out with water
Inhalation - not applicable

5. FIRE-FIGHTING MEASURES

Non combustible liquid. In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide (S43). Wear self-contained breathing apparatus with full protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Clean up actions
- Absorb spillage in inert material and shovel up
- Place in appropriate container
Special Precautions
- Non required

7. HANDLING AND STORAGE

- The usual precautions for handling liquids should be observed.
- Eyewash bottles should be available
- Keep in a cool, dry place
- Protect from frost
- Keep out of reach of children (S2)

8. WORKPLACE EXPOSURE LIMITS/PERSONAL PROTECTION

Engineering controls	- No special precautions are required for this product
Precautionary measures	- No special precautions are required for this product
Personal protection	- non required
Exposure Limits	- There are no recommended or established controls for this product

9. PHYSICAL AND CHEMICAL PROPERTIES

Odour:	Perceptible odour
Appearance:	yellow/brown liquid
Boiling Point:	101°C
Freezing Point:	-3°C
Spec Gravity:	1.001 G/CM3
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Solubility:	Soluble in water
Volatiles:	Not determined
Evaporation:	Not determined
Melting Point:	Not applicable

10. STABILITY AND REACTIVITY

- Stable
- High temperatures will cause the bacteria to die – see label
- Keep away from frost
- Certain seed treatments will cause the bacteria to die – see label
- Product may produce carbon monoxide and carbon dioxide under fire conditions

11. TOXICOLOGICAL INFORMATION

- Non carcinogenic

12. ECOLOGICAL INFORMATION

Ecotoxicology	-the product contains non-toxic, naturally occurring bacteria isolated from soil
Environmental Fate	- <i>Bradyrhizobium japonicum</i> bacteria normally persist in soils
Environmental Hazard Values	- this product poses no environmental hazard

13. DISPOSAL CONSIDERATIONS

- disposal should be in accordance with local, state or national legislation
- do not empty into drains

14. TRANSPORT INFORMATION

United Nations number	Not classified for transport
Marine pollutant	The product should not be marked as a marine pollutant.

15. REGULATORY INFORMATION

Classification & labeling	The product is not classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations as amended (CHIP 3.1)
Risk Phrases	Not applicable
Safety Phrases	Not applicable

16. OTHER INFORMATION

This information is based on BASF Agricultural Specialities present state of knowledge and is intended to describe the product from the point of view of safety requirements. It should not be construed as guaranteeing specific properties. The user has the responsibility to satisfy himself as to the suitability of the information for his own specific use.