

SAFETY DATA SHEET ACCORDING TO 1907/2006/EC, 453/2010/EU, 2015/830/EU (REACH)

RHIZOGRO SOLANUM

Revised on / Version: 19/07/2019 / 0002
Replaces revision of / Version: 26/3/2018 / 0001

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product Identifier**
Product Name : RHIZOGRO SOLANUM
Product description : Fertiliser
Product Type : Pelletised composted poultry manure augmented with beneficial rhizobacterial strains for use as soil application
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Relevant uses: Fertiliser
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet**
Rolfes Agri (Pty) Ltd
288 Mundt Street
Waltloo
Pretoria
South Africa
Tel: +27(0)12 803 0145
Fax: +27(0)12 803 8418
- 1.4 Emergency telephone number**
National advisory body/Poison Centre
Telephone number : SOUTH AFRICA
Griffon Poison Information Centre
(24 Hour Poisoning Emergency Helpline)
+27(0)82 446 8946



SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

CLP Regulation (EC) no 1272/2008:

Not classified

2.2 Label elements

CLP Regulation (EC) no 1272/2008:

Hazard pictogram(s) : None

Signal word : None

Hazard statement(s) : None

Precautionary statement(s) :

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

2.3 Other hazards

Non-applicable

SECTION 3: Composition/information on ingredients

3.1 Substance:

Non-applicable

3.2 Mixture:

Chemical description: Multi-Constituent Substance

Components: Pelletised composted poultry manure augmented with Bacilli isolates
(Minimum 1x10⁸ live cells per kg)

SECTION 4: First Aid Measures

4.1 ACUTE HEALTH HAZARDS: Signs and symptoms of exposure/emergency first aid procedures:

Ingestions: Not applicable under normal use. If ingested give 2-3 glasses of water and induce vomiting. Call a doctor.

Eye Contact: Dust may mechanically irritate the eyes resulting in redness and watering

Treat dust in eye as foreign object. Flush with water to remove dust particle.

Get medical help if irritation persists.

Skin Contact: For skin exposure, wash with soap and water. Get medical help if rash, irritation, or dermatitis persists

Skin Absorption: Not known to occur under normal use.

Inhalation: Excessive dust concentrations may cause unpleasant deposit/obstruction in the nasal passages, resulting in dryness of nose, dry cough, and headaches.

Remove to fresh air. Get medical help if persistent irritation, severe coughing, or breathing difficulty occur.

SECTION 5: Firefighting measures

5.1 Fire Extinguishing Media

Suitable extinguishing media:

Use any means suitable for extinguishing surrounding fire.

Unsuitable extinguishing media:

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture:

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

5.3 Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No specific personal protection equipment is required.

6.2 Environmental precautions:

Prevent dispersion

6.3 Methods and materials for containment and cleaning up

Collect spilled material in sealed containers

6.4 Reference to other sections:

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Handling and Storing Precautions:

A.- Precautions for safe handling:

Keep away from heat, sparks and flames. No smoking, open flames or other sources of ignition should be in the storage facility. Good housekeeping and general dust control measures should be followed.

B.- Technical recommendations for the prevention of fires and explosions

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

None

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Temperature: Ambient
Maximum time/Shelf live: 6 months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s)

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Respiratory Protection:

Not applicable for product in purchased form. A NIOSH/MSHA – approved respirator is recommended when the allowable exposure limits may be exceeded.

Protective Gloves:

Not required. However, cloth, canvas, or leather gloves are recommended to minimize potential mechanical irritation from handling product.

Eye Protection:

Not applicable for product in purchased form. However, safety glasses/goggles are recommended if the product is used in such a way as to generate high dust levels.

Other Protective Clothing or Equipment:

Not applicable for product in purchased form.

Work/Hygienic Practices:

Follow good hygienic and housekeeping practices. Clean up areas where product settles to avoid excessive accumulation; when dry, material is combustible.

Minimize blowdown or other practices which generate high airborne-dust concentrations.

8.2 Exposure controls

Ventilation:

Local Exhaust: Provide local exhaust as needed so that exposure limits are met.

Mechanical (general): Provide general ventilation in processing and storage areas as needed so that exposure limits are met.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Pellets
Colour	: Brown
Odour	: Organic
pH	: Not available.
Boiling point at atmospheric pressure	: Non-applicable *
Vapour pressure at 20 °C	: Non-applicable *
Vapour pressure at 50 °C	: Non-applicable *
Evaporation rate at 20 °C	: Non-applicable *

Product description:

Density at 20 °C	: Non-applicable *
Relative density at 20 °C	: Non-applicable *
Dynamic viscosity at 20 °C	: Non-applicable *
Kinematic viscosity at 20 °C	: Non-applicable *
Kinematic viscosity at 40 °C	: Non-applicable *
Vapour density at 20 °C	: Non-applicable *
Partition coefficient n-octanol/water 20 °C	: Non-applicable *
Solubility in water at 20 °C	: Soluble (suspension).
Solubility properties	: Non-applicable *
Decomposition temperature	: 150 – 200 °C.
Melting point/freezing point	: Non-applicable *
Explosive properties	: Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
Oxidising properties	: Non-applicable *
Flammability:	
Flash Point	: Non-applicable *
Auto ignition temperature	: Non-applicable *
Lower flammability limit	: Non-applicable *
Upper flammability limit	: Non-applicable *

*Not relevant due to the nature of the product, not providing information property of its hazards.

9.2 Other information: No additional information.

SECTION 10: Stability and reactivity

- 10.1 Chemical stability:** Chemically stable under the conditions of storage, handling and use.
- 10.3 Possibility of hazardous reactions:** Not available.
- 10.4 Conditions to avoid:** Avoid contact with moisture, heat and combustible substances
- 10.5 Incompatible materials:** None
- 10.6 Hazardous decomposition products:** Ammonia

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects**
No LD50 data available for the product.
- 11.2 Dangerous health implications:** No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:
- A. Ingestion (acute effect):
Swallowing can result in abdominal discomfort. There is an increased risk of gastro-intestinal infections.
- B. Inhalation (acute effect):
Inhalation of dust and/or liquid mists (bio aerosols) may inflame or sensitize the nose, throat and lungs, and aggravate pre-existing conditions such as asthma and bronchitis.

C. Contact with the skin and the eyes (acute effect):

Dust and/or liquid mist (bio aerosols) may irritate the eye resulting in redness and watering, or eye infection.

Contact with skin may cause irritation and in some people may lead to skin sensitization, dermatitis or skin infection.

D. Long Term Effects:

Repeated inhalation of dust and/or liquid mists (bio aerosols) may result in respiratory irritation, inflammation or sensitization resulting in illnesses ranging from hay fever and asthma to pneumonia (eg. legionnaire's disease) and pneumonia like illnesses.

The elderly, those with pre-existing respiratory diseases, and the immunocompromised are at particular risk from these illnesses. All people working regularly with these and other landscaping products should ensure that they are adequately protected against tetanus.

Specific toxicology information on the substance:

No data available

SECTION 12: Ecological information

The experimental information related to the eco-toxicological properties of the product itself is not available.

12.1 Toxicity: Not available.

12.2 Persistence and degradability: Biodegradable

12.3 Bio accumulative potential: Not available.

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment: Not available

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible.

Hazardous waste:

Non-hazardous waste.

Packaging

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions:

This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

	Land transport (ADR/RID)	Inland waterway transport (AND/ADNR)	Sea Transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN Number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.	Not available.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

Regulation (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc.): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

Regulation (EC) No 2003/2003 of the European Parliament and of the Council of 13 October 2003 relating to fertilisers

15.2 Chemical Safety Assessment:

Not available.

SECTION 16: Other information**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EU) N° 453/2010, Regulation (EC) N° 2015/830)

Texts of the legislative phrases mentioned in section 2:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

Texts of the legislative phrases mentioned in section 3:

Non applicable

CLP Regulation (EC) n° 1272/2008 (refer to section 3):

Not classified

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>

www.dguv.de/ifa/gestis-dnel

<http://eur-lex.europa.eu>

Relevant P-, H- and EUH-phrases (number and full text)

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P201 - Obtain special instructions before use.

P501 - Dispose of the contents/containers in accordance with the current legislation on waste treatment

Abbreviations and acronyms:

ADR - European agreement concerning the international carriage of dangerous goods by road

IMDG - International maritime dangerous goods code

IATA - International Air Transport Association

ICAO - International Civil Aviation Organisation

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