SAFETY DATA SHEET
ACCORDING TO FEDERAL REGISTER / VOL. 77, NO. 58 / MONDAY, MARCH 26, 2012 / RULES AND REGULATIONS

VIRIBUS-T

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

1.1 Product Identifier
Product Name: VIRIBUS-T
Product description: Micro Encapsulated Inoculant
Product Type: Trichoderma-based product that contains patent-pending strains utilizing ABM’s™ IGET™ technology.

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant uses: Seed treatment, root dip or drench application
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:

GHS-US classification:
Comb. Dust
Full text of H-phrases: Refer to Section 16 of this SDS

2.2 Label elements

GHS-US classification:

- Hazard pictogram(s): None
- Signal word: Warning
- Hazard statements (GHS-US): May form combustible dust concentration in air

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:

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Fiber</td>
<td>(CAS No) Proprietary</td>
<td>99</td>
<td>Comb. Dust</td>
</tr>
<tr>
<td>Proprietary Chemical</td>
<td>(CAS No) Proprietary</td>
<td>&gt; 1</td>
<td>Not Classified</td>
</tr>
<tr>
<td>Proprietary Starch</td>
<td>(CAS No) Proprietary</td>
<td>&lt; 1</td>
<td>Comb. Dust</td>
</tr>
<tr>
<td>Proprietary Active Ingredient</td>
<td>(CAS No) Proprietary</td>
<td>0.35</td>
<td>Eye Irrit. 2B, H320</td>
</tr>
</tbody>
</table>

SECTION 4: First Aid Measures

4.1 First-aid Measures General:
Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures after Inhalation:
Using proper respiratory protection, move the exposed person to fresh air at once. Encourage exposed person to cough, spit out, and blow nose to remove dust. Immediately call a poison center, physician, or emergency medical service.

First-aid Measures after Skin Contact:
Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures after Eye Contact:
Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
First-aid Measures after Ingestion:
Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries:
Not expected to present a significant hazard under anticipated conditions of normal use. Chronic inhalation of this dust may cause inflammation of the lungs.

Symptoms/Injuries after Inhalation:
Dust may be harmful or cause irritation.

Symptoms/Injuries after Skin Contact:
Prolonged exposure may cause skin irritation.

Symptoms/Injuries after Eye Contact:
May cause slight irritation to eyes.

Symptoms/Injuries after Ingestion:
Ingestion may cause adverse effects.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1 Fire Extinguishing Media

Suitable extinguishing media:
Use any means suitable for extinguishing surrounding fire. Use water spray or fog for cooling exposed containers.

Unsuitable extinguishing media:
Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture:
Fire Hazard:
Combustible Dust.

Explosion Hazard:
Dust explosion hazard in air.

Reactivity:
Reacts with strong oxidizers, increasing risk of fire/explosion.

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:
General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. Avoid generating dust. Remove ignition sources. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
6.1.1. For Non-emergency Personnel Protective Equipment:
Use appropriate personal protection equipment (PPE).

Emergency Procedures:
Evacuate unnecessary personnel.

6.1.2. For Emergency Responders Protective Equipment:
Equip cleanup crew with proper protection.

Emergency Procedures:
Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions
Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up For Containment:
Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. Avoid generation of dust during clean-up of spills.

Methods for Cleaning Up:
Clean-up spills immediately and dispose of waste safely. Contact competent authorities after a spill. Use explosion proof vacuum during clean-up, with appropriate filter. Do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Use only non-sparking tools.

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:

Additional Hazards When Processed:
Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations.

Precautions for Safe Handling:
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing dust. Avoid creating or spreading dust. Keep away from heat, sparks, open flames, hot surfaces – No smoking.

Hygiene Measures:
Handle in accordance with good industrial hygiene and safety procedures.

7.2 Conditions for safe storage, including any incompatibilities:

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust. Use explosion-proof electrical, ventilating, lighting equipment. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions:
Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Products:
Strong acids, strong bases, strong oxidizers.
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

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Proprietary Fiber

<table>
<thead>
<tr>
<th>USA ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
<th>10 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>10 mg/m³ (total dust)</td>
</tr>
<tr>
<td>USA OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>15 mg/m³ (total dust)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³ (respirable fraction)</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Appropriate engineering controls:
No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures:
Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Eye/face protection:
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Possible: safety glasses with side-shields

Skin protection

Hand protection:
Protective gloves against minor risks.

Body protection:
Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:
Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.

Environmental exposure controls:
In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**
- Physical state: Solid
- Colour: White
- Odour: Not data available.
- pH: Not data available.
- Boiling point at atmospheric pressure: Non-applicable *
- Vapour pressure at 20 ºC: Non-applicable *
- Vapour pressure at 50 ºC: Non-applicable *
- Evaporation rate at 20 ºC: Non-applicable *

**Product description:**
- Density at 20 ºC: Non-applicable *
- Relative density at 20 ºC: Non-applicable *
- Dynamic viscosity at 20 ºC: Non-applicable *
- Kinematic viscosity at 20 ºC: Non-applicable *
- Kinematic viscosity at 40 ºC: Non-applicable *
- Vapour density at 20 ºC: Non-applicable *
- Partition coefficient n-octanol/water 20 ºC: Non-applicable *
- Solubility in water at 20 ºC: Water: Insoluble
- Solubility properties: Non-applicable *
- Decomposition temperature: Non-applicable *
- Melting point/freezing point: Not data available.
- Explosive properties: Not data available.
- 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. Reactivity:
Reacts with strong oxidizers, increasing risk of fire/explosion.

10.2. Chemical Stability:
Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions:
Hazardous polymerization will not occur.

10.4. Conditions to Avoid:
Direct sunlight, extremely high or low temperatures, and incompatible materials. Sparks, heat, open flame and other sources of ignition.

10.5. Incompatible Materials:
Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products:
Carbon oxides
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity: Not classified

LD50 Oral Rat: > 5000 mg/kg
LD50 Dermal Rabbit: > 2000 mg/kg
LC50 Inhalation Rat: > 5800 mg/m³ (Exposure time: 4h)

Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Dust may be harmful or cause irritation.
Symptoms/Injuries After Skin Contact: Prolonged exposure may cause skin irritation.
Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.
Symptoms/Injuries After Ingestion: Ingestion may cause adverse effects.

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 classified
12.2 Persistence and degradability: Not established
12.3 Bio accumulative potential: Not established.
12.4 Mobility in soil: Not available
12.5 Results of PBT and vPvB assessment: Not available
12.6 Other adverse effects: Avoid release to the environment.

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

<table>
<thead>
<tr>
<th>14.1 UN Number</th>
<th>Land transport (ADR/RID)</th>
<th>Inland waterway transport (AND/ADNR)</th>
<th>Sea Transport (IMDG)</th>
<th>Air transport (ICAO-TI / IATA-DGR)</th>
</tr>
</thead>
</table>

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

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 US Federal Regulations
Proprietary Fiber: Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Proprietary Starch: Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations Proprietary Fiber
U.S. - Massachusetts – Right To Know List
U.S. - New Jersey – Right to Know Hazardous Substance List
U.S. – Pennsylvania - R T K (Right to Know) List
SECTION 16: Other information

Other Information:
This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Comb. Dust: May form combustible dust concentrations in air
Eye Irrit. 2B Serious eye damage/eye irritation Category 2B
H320 Causes eye irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDSUS (GHS HazCom)

Date of revision : 19/07/2019
Version : 2

Notice to reader

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