



SAFETY DATA SHEET

GROTAB POWDER

1. Identification of the substance/preparation and Company

Product identifier used on the label:	GROTAB POWDER
Other means of identification:	Fertilizer plus mycorrhizal inoculant
Recommended use of the chemical and restrictions on use:	FERTILIZER & MYCORRHIZAL INOCULANT
Company Name:	Italpollina USA, Inc.
Company Address:	PO Box 9039, Fort Wayne, IN 46899-9039
Telephone Number:	509-619-5939
Company e-mail:	
Emergency phone number:	
e-mail of person responsible for SDS:	Jon.Leman@italpollina.com

2. Hazard Identification

Within the current knowledge of the supplier the product is classified as:
IRRITANT –The product can be an eye irritant.
 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. Keep out of the reach of children.
 Within the current knowledge of the supplier and in the concentrations recommended by Company, the product is not hazardous to human health or to the environment.
 For more informations about product effects on human health read section 11.

3. Composition/information on Ingredients

The product is a preparation. It contains mycorrhizal fungi: *Glomus intraradices* and *Trichoderma atroviride*. This fungi establishes a symbiotic partnership with most plant species. The product contains minced plant roots colonized by spores and hyphae of mycorrhizal fungi.
 Trichoderma atroviride is classified as:
Irritant
Risk phrases: The product can be an irritant to the eyes.
 Concentration of Trichoderma atroviride is 2%.
 Within the current knowledge of the supplier, other ingredients dangerous to human health or environment are not present.

4. First Aid Measures

Inhalation:	Don't breathe the product. If inhaled, remove to fresh air. In the case of respiratory problems, ask medical attention.	Skin Contact	Avoid prolonged or repeated contact with skin. After handling, always wash hands using water and soap. In case of irritation, ask medical attention.
Eye Contact	In case of eye contact wash immediately with plenty of water. In case of irritation or other problems, ask medical attention.	Ingestion	In case great quantities of fertilizer were ingested, call a doctor immediately. Don't induce vomit unless directed by medical personnel. Don't give anything by mouth to an unconscious person.

5. Fire-fighting Measures

Suitable extinguishing media.	Non-combustible product. In case of fire, use water in great quantities.
Specific hazards arising from the chemical.	In case of fire don't breathe dust or vapors coming from combustion material. Dangerous decomposition products are nitrogen (N) oxides and carbon oxides.
Special protective equipment and precautions for fire-fighters.	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.

6. Accidental Release Measures

Environmental precautions.	Avoid contamination of surface water and sewerage. Inform the appropriate authorities in case of surface water contamination. Avoid product dispersion by rain or wind.
Personal precautions, protective equipment, and emergency procedures.	If necessary, use appropriate protective equipment. Avoid contamination with released material. Don't breathe the dust. Send out personnel not necessary for the clean-up.
Methods and materials for containment and cleaning up.	Scoop up the material released by absorbent material and put it into an appropriate labelled waste container. The absorbent material and product can be used as a fertilizer on a farm.

7. Handling and Storage

Precautions for safe handling.	Avoid wind dispersal. Avoid all possible sources of ignition (ex. flame). Avoid contamination by others materials (metals, organic materials, etc.). Use appropriate protective equipment during the handling.
Conditions for safe storage, including any incompatibilities.	Store away from rain, heat, sparks, flame or any other ignition source. Prevent high moisture in handling and storage. Keep clean and ventilated the storage rooms. Keep away from children and animals. Store at temperatures < 68°F (20°C)

8. Exposure Controls/Personal Protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit.	NA
Technical precautionary actions	Avoid dust/vapors formation. Use good ventilation where necessary
Respiratory protection	If necessary, use a properly fitted, air-purifying or air-fed respirator complying with an approved standard.
Eyes protection	In case of a high concentration of product in the air, use dust goggles.
Skin protection	To avoid the contact between the product and the skin, use personal protective equipment for hands and body.
Hands protection	If necessary, use chemical-resistant gloves (approved standard).

9. Physical and Chemical Properties

Appearance (physical state, color, etc.):	Gray to Light Brown Powder	Upper/lower flammability or explosive limits:	NA
Odor:	Characteristic	Vapor pressure:	Unknown
Odor threshold:	-	Vapor density:	Unknown
pH (1:5 dilution):	6-7	Relative density:	NA
Melting point/freezing point:	NA	Solubility:	Not soluble in water. In water it creates a suspension.
Initial boiling point and boiling range:	NA	Partition coefficient: n-octanol/water:	NA
Flash point:	NA	Auto-ignition temperature:	NA
Evaporation rate:	NA	Decomposition temperature:	NA
Flammability (solid, gas):	Not flammable	Viscosity:	NA

10. Stability and Reactivity

Chemical stability:	The product is stable under recommended storage and handling conditions.
Incompatible materials:	Acids, alkalis, organic and combustible materials
Hazardous decomposition products:	Nitrous oxides and carbon oxides
Conditions to avoid	Flame or any other ignition source, high moisture, high temperature

11. Toxicological Information

Dangerous effects on human health: within the current knowledge of the supplier the product contains *Trichoderma atroviride* which is classified as:
IRRITANT

Risk phrases: **The product can be an irritant to the eyes.**

LD50 oral rat > 2000 mg/kg.

LD50 dermal rat > 2000 mg/kg.

At the moment, there are no known significant effects regarding carcinogenicity, mutagenicity, teratogenicity, negative fertility effects, or other dangerous effects on human health.

12. Ecological Information

Ecotoxicity (aquatic and terrestrial, where available):	This product is not dangerous to the environment if used as recommended by the supplier. Use only if necessary.
Solubility	This product makes a suspension in water
Persistence and degradability:	Biodegradable
Bioaccumulative potential:	None
Mobility in soil:	Low
Other adverse effects	None known

13. Disposal Considerations

Within the present knowledge of the Company, the product is not considered as hazardous waste. Dispose the product and the packaging according to all applicable local and national laws.

14. Transport Information

The product is not classified as hazardous material according to the UN Orange Book. International transport codes (ADR, RID, IMDG, ADN) are not necessary.

15. Regulatory Information

This product is an **IRRITANT**

RISK PHRASES: The product can be an irritant to the eyes.

SAFETY PHRASES: In case of contact with eyes, rinse immediately with plenty of water and seek medical assistance. Keep out of the reach of children.

16. Other Information

Version Number	Version 1.0
Date of Last Revision:	June 30, 2016
SDS by Italtollina, USA. Inc.	

IMPORTANT NOTICE:

The data and informations contained in this safety data sheet are based on our knowledge at the date of issue. The informations of this SDS concerns only aspects about use, handling and storage of the product. The supplier does not assume any liability whatsoever for the accuracy or completeness of the information contained in this sheet. Final determination and use of suitability of product is completely the responsibility of the user. All chemical products may present unknown hazards and must be used with caution. The supplier does not guarantee that the hazards described in this safety data sheet are the only hazards that exist for this product. The supplier does not guarantee that this SDS contains all possible safety measures; in particular conditions it may be necessary to add some additional safety measures.