

<b>MARGO</b>	<b>Margo Biocontrols Pvt. Ltd., Tumkur, Karnataka</b>	
	<b>Document: Material Safety Data Sheets</b>	<b>Document No: QF/MBC/PROD/MSDS/005</b>
	<b>Title : MSDS of ECORRHIZA®</b>	<b>Rev. : 00</b> <b>Rev. Date: 02.05.2018</b>

**MATERIAL SAFETY DATA SHEET**  
**ECORRHIZA®**  
(BIOFERTILIZER)

**MARGO BIOCONTROLS PRIVATE LIMITED**  
**NO: 344/8, IV MAIN**  
**SADASHIVANAGAR**  
**BANGALORE-560 080**  
**TEL: +91-80-23613051-3**

1. **PRODUCT INFORMATION :**

Product Name : Ecorrhiza®  
Group : Glomeromycota, Glomeromycetes,  
Scientific Name : *Vesicular Arbuscular Mycorrhiza*

2. **COMPOSITION / INFORMATION ON INGREDIENTS :**

<u>COMPONENTS</u>	<u>COMPOSITION (%)</u>
Vesicular Arbuscular Mycorrhiza : (100 Propagules / gm)	0.1%
Carrier material, sticker and binder :	96 %
Moisture :	3.9%

3. **HAZARDOUS IDENTIFICATION :**

**EMERGENCY OVERVIEW**

This is a natural product of biological origin. Beneficial endomycorrhizal and ectomycorrhizal propagules on an expanded Vermiculite carrier beneficial for plant growth. There is no specific antidote if this product is ingested. Treat symptomatically. If a large amount has been ingested, give plenty of water to drink and seek medical attention.

4. **POTENTIAL HEALTH EFFECTS :**

Route(s) of entry : Eyes, skin, oral, and inhalation.

Human Effects and symptoms of exposure : No known effect.

Acute Eye contact : May cause mild irritation.

Chronic Eye contact : Chronic exposure not likely from normal use.

Acute skin contact : No skin irritation

Chronic skin contact : No skin irritation

Chronic ingestion : Chronic exposure not likely from normal use.

Acute inhalation : Non-irritant to mucous membrane.

Chronic inhalation : Chronic inhalation not likely from normal use.

5. **FIRST AID MEASURES :**

If poisoning is suspected, immediately contact a physician, the nearest Hospital or the nearest Poison Control Centre. Tell the person contacted the complete product name and the type and amount of exposure. Describe any symptoms and follow the advice given.

First aid for eyes : Immediately flush eyes with cool running water, lifting upper and lower lids. If irritation persists or for foreign body in the eye, get immediate medical attention. Do not apply any medicating agents except on advice of a physician.

First aid for skin : Wash with plenty of soap and water, including hair, and under fingernails. Do not apply any medicating agents except on advice of a physician. Remove contaminated clothing and decontaminate.

First aid for inhalation : Move victim from contaminated area to fresh air. Apply artificial respiration, if necessary.

First aid for ingestion : If victim is fully conscious, immediately give large quantities of water to drink and get medical help. Never give anything by mouth to an unconscious person.

6. **FIRE FIGHTING MEASURES :**

Extinguishing media : Dry chemical, foam or carbon dioxide.

Unusual fire and explosion hazards : None known.

Special fire fighting procedures : Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated.

7. **ACCIDENTAL RELEASE MEASURES.**

Spill or leak procedures : Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long sleeved shirt, long pants, head covering and a NIOSH approved dust or pesticide respirator with a dust filter. For small spills, sweep up, keeping dust to a minimum and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with absorbent material. Seal the container and handle in an approved manner.

8. **HANDLING AND STORAGE :**

Storage temperature (Min./Max.) : Room temperature (not exceeding 40°C).

Special sensitivity .. : None known

Handling and storage precautions : Store the material in a well ventilated, secure area out of

the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Always wash thoroughly after handling.

9. **EXPOSURE CONTROLS / PERSONAL PROTECTION:**

- Oral protection requirements : Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.
- Eye protection equipments : To avoid eye contact, wear safety goggles.
- Skin protection requirements : To avoid skin contact, wear rubber gloves, rubber boots, long sleeved shirt, long pants and head covering.
- Respiratory / ventilation requirements : To avoid breathing dust, use with adequate ventilation and wear a NIOSH approved dust or pesticide respirator with a dust filter.

10. **PHYSICAL AND CHEMICAL PROPERTIES :**

- Physical form : Powder
- Colour : Brown
- Odour : Odourless
- Boiling point range : Not applicable
- Melting/Freezing point : Not applicable
- Flash point : Not applicable
- pH : 6 -7.5
- Solubility in water : Does not soluble
- Bulk density :  $0.70 \pm 0.5$  Kg / litre

11. **STABILITY AND REACTIVITY :**

- Stability : Stable
- Incompatibilities : Not compatible with chemical fertilizer.
- Decomposition : Easily biodegradable

12. **TOXICOLOGICAL INFORMATION :**

- Oral LD<sub>50</sub> (Rat) : Non toxic
- Dermal LD<sub>50</sub> (Rat) : Non toxic
- Eye contact (Rabbit) : Non irritant
- Skin contact (Rabbit) : Non irritant
- Totally biodegradable in nature.
- Non-toxic to birds, fishes, bees and other non-target organisms.

13. **DISPOSAL CONSIDERATION :**

Do not reuse product packing materials and residues. Dispose the product packing materials and residues according to local state and federal health and environmental regulations.

14. **TRANSPORT INFORMATION:**

Not classified as hazardous under transport regulations.

DOT hazard class: Not applicable

15. **REGULATORY INFORMATION:**

OSHA status: N/A

TSCA status: N/A

CERCLA reportable quantity: N/A

RCRA status: N/A

16. **OTHER INFORMATION:**

N/A – Not applicable

To the best of our knowledge, the information contained herein is accurate. However, neither Margo Biocontrols Pvt. Ltd. nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.

This product is for agricultural use only

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