

PRODUCT: OPTIMUM AMF

SAFETY DATA SHEET

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1. PRODUCT INFORMATION

1.1 Product Identifier:	Optimum AMF (MYCORRHIZA Glomus Intraradices
	Consortium Spores)
1.2 Relevant uses:	For application to soil/seed at or prior to sowing
1.3 Supplier details:	

Company Details					
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Name: Ad Terram Treatment Technologies B.V.	+31(0)228 593813 (after hours)				
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Tel. No. +31 (0)228 593813	E-mail Address: info@ad-terram.nl				

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

There are no components in this product at concentrations which require notification per OSHA Hazard Communications Standard 29 CFR 1910.1200.

2.2 Label elements:

The substance is not dangerous according to the criteria in EU classification directive 67/548/EEC and it is as per the REACH compliance.

2.3 Other hazards:

Dangerous goods class & subsidiary risk	Not applicable
Hazchem code:	Not applicable
Hazard class:	Not applicable
Risk phrases	Not applicable
Safety phrases:	Not applicable

3. COMPOSITION

3.1 Substances

Hazardous Components:	None
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Composition:	All components are non-hazardous
Ingredient (common name):	MYCORRHIZA. Glomus Intraradices Consortium Spores
CAS Number:	N/A

3.2 Mixtures

Hazardous Components:	None
Composition:	All components are non-hazardous

4. FIRST AID MEASURES

4.1 First aid measures

Product In Eye:	Avoid contact with eyes. May irritate the eyes. Flush
	eyes with flowing water for at least 15 minutes. If
	irritation persists, continue to flush with flowing water
	and seek medical attention.
Product On Skin:	If irritation develops seek medical attention. Remove
	and wash contaminated clothing before reuse.
Product Inhalation:	If difficulty in breathing occurs, move affected person
	to fresh air. Loosen clothing to ease breathing. Seek
	immediate medical attention.
Product Ingested:	Maybe harmful if swallowed. Rinse affected persons
	mouth with clean water continuously. If irritation
	persists, seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed Not applicable.

4.3 Indication of any immediate medical attention and special treatment needed Not applicable.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media	For major fires call the Fire Brigade. Ensure that an
Fires:	escape path is available from any fire.
5.2 Special hazards	
Flammability:	May be combustible at high temperatures



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Products of combustion:	Suitable extinguishing media Foam, alcohol foam, CO2,
	dry chemical, water fog.
Hazardous combustion products	Burning will not create noxious fumes.
Explosion Hazards in presence of	Not a fire or explosion hazard when stored under normal
mechanical impact or static discharge:	conditions.
5.3 Advice for firefighters	
Protective Clothing:	Fire fighters should wear butyl rubber boots, gloves and
	body suit and a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:	Spills Wear elbow length rubber gloves and half
	facepiece respirator.
6.2 Environmental Precautions:	Collect and put back into airtight containers.
6.3 Methods and materials for containment	Wash off any contaminated surface with water and
and cleaning up:	detergent. Use disinfectants if possible.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:	Normal care in handling. Do not remove from original
	container until ready to use - avoid contaminating the
	culture.
7.2 Conditions for safe storage:	Storage Store in the closed original container in a dry
	area, within a temperature range of 4 - 10°C.
7.3 Specific end use	This product is only to be used for seed coating

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters:	
Occupational Exposure Limits:	None allocated
8.2 Exposure Controls:	
Personal protection - Respiratory:	Wear a half face piece respirator or dust mask.
Personal protection - Hands:	Wear protective gloves
Personal protection - Eyes:	Chemical goggles, safety glasses or face shield.
Personal protection - Skin:	Elbow length rubber gloves, overalls, apron and boots
	are necessary to prevent skin contact.
Hygienic practices:	Open wounds or skin surface disruptions should be
	covered with a chemical resistant patch to minimize
	absorption risks. Clean clothing should be worn daily to
	avoid possible long-term build-up of the product leading



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to chronic overexposure. Emergency eye wash must be
readily available within work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid / Powder / Granular substance with slight odour.
Арреагансе.	Liquid / Fowder / Grandial Substance with slight oddur.
Composition:	≥ 5 x 1011 /g viable Rhizobium / Bradyrhizobium /
	Sinorhizobium spp. bacteria in a glass vial. Product under
	vacuum.
Odour:	Mild earthy odour
pH:	6.5 – 7.0
Density (SG):	N/A
Solubility:	Solubility in water Soluble
Boiling point:	N/A
Flash point:	N/A
Evaporation rate	N/A
Flammable limit:	lower N/A, upper N/A
Moisture content	1.5 – 2.5%

10. STABILITY AND REACTIVITY

10.1 Reactivity:	Non-corrosive
10.2 Chemical Stability:	Stable while stored dry.
10.3 Possibility of hazardous reactions	None
10.4 Conditions To Avoid:	Extreme heat and oxidizing agents
10.5 Incompatible materials	Avoid storage with compounds that will react with
	aluminium foil cap or butyl rubber bung.
10.6 Hazardous decomposition products	Will not emit noxious fumes.
10.7 Hazardous polymerization	Will not occur.
10.8 Conditions to avoid	Extremes in temperature. Direct sunlight.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Routes of exposure:	Ingestion, inhalation, eyes, and skin.
Ingestion:	Maybe harmful if swallowed.
Inhalation:	Prolonged inhalation may lead to respiratory tract
	irritation.



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Eye:	Prolonged or repeated exposure may cause mechanical
	irritation.
Skin	Prolonged or repeated exposure may cause irritation,
	redness, and inflammation.
Effects of overexposure	Long term exposure may cause mechanical irritation of
	the eyes as well as skin and respiratory tract irritation
Existing conditions	Aggravated by exposure May provoke asthmatic
	response in persons with asthma who are sensitive to
	airway irritants.
Carcinogenicity	No information available.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	No data available
12.2 Persistence and biodegradability:	Non-persistent, fully biodegradable
12.3 Bioaccumulative potential:	Does not bioacumulate
12.4 Mobility in soil:	No data available
12.5 Results of PBT and vPvB assessment:	No data available
12.6 Other adverse effects	Not applicable

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods:	Non-hazardous waste.
	Dispose of according to local legislation
13.2 Disposal Methods	Dispose according to applicable local and government regulations.
	Dispose of in a local authority landfill. Dispose of empty packaging by wrapping and placing in the garbage disposal system. Do not contaminate streams, rivers, or waterways.

14. TRANSPORT INFORMATION



PRODUCT: OPTIMUM AMF

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous Goods by road or rail.

14.1 UN number: Not applicable

14.2 UN Proper shipping name: Not applicable

14.3 Transport hazard class: Not applicable

14.4 Packing group: Not applicable

14.5 Environmental hazards: Negligible

14.6 Special precautions for user: Not applicable

15. REGULATORY INFORMATION

15.1 Safety, health and environmental	The preparation is not classified as "dangerous"
regulations/ legislation specific for the	according to the criteria of Council
substance or mixture:	Directives 67/548/EEC (Annex VI of Directive
	2001/59/EC) and 1999/45/EC.
	Microbial classification
	The preparation is not deemed 'hazardous' according
	to the requirements of Council Directive
	2000/54/EEC. Fungi contained in this preparation are
	designated Class 1 according to Council
	Directive 90/679/EEC (as amended by Council
	Directive 93/88/EEC) and all other recognized
	classification systems for micro-organisms
15.2 Chemical Safety assessment	Not applicable

16. OTHER INFORMATION

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issue. Ad Terram Treatment Technologies makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used. Please read the product label before using the product

17. PREPARED BY

JAN TAMBOER





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