



SDS No.: 029

Revision No.: 1 Date: 16 September 2022

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	1. Identification	
Product identifier:	MycoUp Activ [®]	
Synonyms:	Glomus iranicum var. tenuihypharur	<i>n</i> var. <i>nova</i> (active ingredient)
Company product code or Supplier code:	N/A	
Fertiliser Group:	3	
RSA Reg. No. (Act No. 36 of 1947):	M0010	
Supplier:	Andermatt Madumbi (Pty) Ltd Suite 105, 24 Hilton Ave, Hilton KZ Telephone: +27 (0) 33 342 3984 (0 Email address (technical): support@	9:00 to 16:00)
Recommended use:	Fertiliser / Biostimulant	
Restrictions on use:	Do not use for any other purpose that	n described on the product label
Emergency numbers:	+27 (0) 33 342 3984 +27 (0) 82 446 8946	(09:00 to 16:00) (24 H)

2. Hazards identification

MycoUp Activ[®] is a solid powder.

Classification according to the GHS:	Not classified.	No hazard statements.	No signal word.
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Contains *Glomus iranicum* var. *tenuihypharum*. CAUTION: Microorganisms may have the potential to provoke sensitising reactions.

Repeated and prolonged inhalation of any dust produced may cause damage to the lungs. Exposure to the powder may cause skin and eye irritation in sensitive individuals. These reactions can be avoided if exposure is minimized or limited by following label recommendation and precautions.











No hazard symbols



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Precautionary statements:	
Wear protective gloves/protective clothing/eye protection.	P280
In case of inadequate ventilation, wear respiratory protection.	P284
Do not eat, drink, or smoke when using this product.	P270
Wash hands and face thoroughly after handling.	P264
Avoid breathing dust.	P261
IF ON SKIN: Wash with plenty of water.	P302+P352
Take off contaminated clothing and wash it before reuse.	P362+P364
If skin irritation or rash occurs: Get medical help.	P332+P317
IF IN THE EYES: Rinse cautiously with water for several minutes.	P305+P351
Remove contact lenses, if present and easy to do. Continue rinsing.	P338
If eye irritation persists: Get medical help.	P337+P317
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	P304+P340
Get medical help if you feel unwell.	P319
Contaminated work clothing should not be allowed out of the workplace.	P272
Dispose of contents and/or container in accordance with regulations.	P501

3. Composition/information on ingredients

Ingredient	CAS number	%
Glomus iranicum var. tenuihyph var. nova	narum Not assigned	1 (minimum 1.2 x 10 ⁴ propagules/100 ml)
Solid co-formulants	Confidential	99
	4. First aid mea	isures
Eye contact:	occur. IF IN THE EYES: Rinse of Remov Continu	otoms/effects: eye irritation or redness may cautiously with water for several minutes. e contact lenses, if present and easy to do. ue rinsing. rritation persists, get medical help.
Skin contact:	occur. IF ON SKIN: Wash with p Take off cor	otoms/effects: skin irritation, redness or rash may lenty of water. Soap may be used. ataminated clothing and wash it before reuse. tion or rash occurs, get medical help.
Inhalation:	coughing may occur.	otoms/effects: irritation of the upper airway and erson to fresh air and keep comfortable for

breathing.

Get medical help if the person feels unwell.



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Ingestion:		te symptoms/effects: no symptoms or effects Rinse mouth with water for several minutes Get medical help if you feel unwell.	
Most important delayed symptoms/effects after exposure:	6	ay have the potential to provoke sensitising re s prolonged or frequently repeated skin contact	
Indication of immediate medical attention:	sensation in the upp get medical help. Treat symptomatica	rash occurs, or if eye irritation persists, or if a ber airways persists, or if other health disorder ally. ons may be aggravated, such as eye, skin, or	rs appear,
Protection of first responders:	Avoid undue contact Wear gloves and a p	et with the mixture. mask to prevent transmission of pathogens.	

5. Firefighting measures

Appropriate/suitable extinguishing media:	Water spray, foam, carbon dioxide (CO ₂) or dry powder may be used but select extinguishing media that is appropriate for local circumstances and the surroundings.
Inappropriate extinguishing media:	None known.
Nature of hazardous combustion products:	None known or expected.
Other hazards arising from the mixture:	None known when properly stored and handled.
Special protective equipment:	Avoid breathing dust that may be produced. Use self-contained breathing apparatus and complete protective clothing. Do not attempt to act without suitable protective equipment.
Precautions and/or protective actions:	Move containers from the fire area if it can be done without risk. Use water spray to cool down closed containers, but only after considering other material in the vicinity that may pose a hazard. Stay upwind and keep out of low areas. Take precautions to prevent extinguishing media contaminating surface water or ground water.



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6. Accidental release measures

Distinguish between large or small spills or releases.

Personal precautions:	Avoid contact with skin and eyes. Wash hands thoroughly after handling. Do not eat, drink, or smoke during clean-up operations.
Protective equipment:	Wear protective gloves/protective clothing/eye protection/respiratory protection.
Emergency actions and procedures:	No special emergency actions or procedures are required.
Environmental precautions:	The product is for terrestrial use only. Do not apply directly to areas where surface water is present, or to intertidal areas below the high-water mark. Do not contaminate surface or ground water when disposing of rinsate or water used to wash equipment. Avoid release of spills to the environment. Prevent spills from entering storm sewers or drains. Report a large release to the appropriate authorities.
Methods and materials for containment and cleaning up:	Move intact containers from the spill area. The product is a water dispersible powder. <u>Small spills:</u> Sweep up without creating dust clouds and place in an appropriate waste disposal container. <u>Large spills:</u> Ensure adequate ventilation. Sweep up without creating
	dust clouds and transfer to containers for disposal (reclaim if possible). Wash the spill area with water and soap (the area may become slippery), then flush with water if appropriate. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Precautions for safe handling:	Wear protective gloves/protective clothing/eye protection/ respiratory protection, such as nitrile rubber gloves, safety glasses, long-sleeved clothing, and a face mask. Ensure that open wounds are covered. Do not handle in a confined space. Do not eat, drink, or smoke when using this product. Wash hands and face thoroughly after handling.
Conditions for safe storage:	Store in the original container in a cool (10 to 25 °C) area out of direct sunlight. Avoid elevated temperatures. Keep containers closed. Store separately from any food, feed, or drinks. Keep out of reach of children and uninformed persons.
Any incompatibilities:	Do not mix with any other agricultural product. Do not mix in containers that were previously used for toxic materials.



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8. Exposure controls/personal protection

No occupational exposure limit values have been established for this mixture.

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No biological limit values are available for this mixture.

Appropriate engineering controls include good general ventilation. No other control parameters are considered necessary. Safety showers and eye wash stations should be provided.

Microorganisms may have the potential to provoke sensitising reactions. The product should not be used by subjects affected by immunodeficiency or in treatment with immunosuppressive agents.

The product may cause irritation if inhaled and may cause skin and eye irritation Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Repeated and prolonged inhalation of any dust produced may cause lung damage. These reactions can be avoided if exposure is minimized or limited by following label recommendation and precautions.

Users must wear a long-sleeved shirt, long pants, shoes plus socks, water-proof gloves and eye goggles or face mask when handling these mixtures. If dust or mist is present, a dust/mist filtering respirator should be used.











9. Physical and chemical properties

Physical state	Powder
Clarity:	Not applicable
Colour:	Brown
Odour:	Not significant
Odour threshold:	Not applicable
Melting point/freezing point:	Not available
Boiling point (or initial point and range):	Not applicable
Flammability (gases, liquids, solids):	Not flammable
Lower and upper explosion limits:	Not applicable
Lower and upper flammability limits:	Not applicable
Flash point:	Not applicable
Autoignition temperature:	Not determined
Decomposition temperature:	Not determined
pH, neat:	Not applicable
pH, aqueous dilution	8 (1%)
Dissociation in water, pKa:	Not determined
Kinematic viscosity (of liquids) in mm ² /s:	Not applicable



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Solubility in water:	Disperses in water
Solubility in a specified non-polar solvent:	Not miscible
Partition coefficient (n-octanol/water):	Not determined
Vapour pressure (at 25 °C):	Not applicable
Density and/or relative density:	0.63
Relative vapour density:	Not applicable
Particle characteristics:	More than 99% passed through a 0.05 mm test sieve
Evaporation rate:	Not applicable

10. Stability and reactivity

Chemical stability:	The mixture is chemically stable and not reactive when handled or stored at ambient temperatures and below.
Safety significance of any change in physical appearance:	The mixture is not expected to change in physical appearance over time.
Possibility of hazardous reactions:	No known hazardous reactions and no polymerisation.
Conditions to avoid:	Avoid excessive heat. Pressure, shock, static discharge, and vibrations have no known effect.
Incompatible materials:	No known hazardous incompatibilities.
Hazardous decomposition products:	The mixture is not expected to produce hazardous decomposition products when used and stored properly.

11. Toxicological information

No specific health or environmental test data is available for the product. According to the manufacturer, *Glomus* species occur worldwide in soil and in edible roots such as carrots. No case of toxicity or pathogenicity could be found in the literature, and no signs of toxicity have been observed during monitoring of research and technical personnel working with the fungus. No hazard is classified for the end-use product.

<u>Symptoms</u> related to the physical, chemical, and toxicological characteristics of the mixture include possible irritation and redness upon skin contact. Exposure to dust clouds may cause irritation of the airways, coughing and breathing difficulties. Eye contact may cause irritation.

<u>Effects of exposure</u>: Apart from irritation, no data on immediate effects from short-term exposure is available. Prolonged or frequently repeated skin contact or inhalation may cause allergic reactions. Repeated and prolonged inhalation of any dust produced may cause lung damage.



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12. Ecological information

According to the manufacturer, *Glomus* species occur worldwide in soil. No environmental hazard has been classified for any of the co-formulants.

The product is not expected to pose any risks to the environment.

Hazards to the aquatic environment are not classified for this product.

Nevertheless, the product must not be applied directly to areas where surface water is present, or to intertidal areas below the high-water mark. Contamination of surface or ground water and entering storm sewers or drains must be prevented.

13. Disposal considerations

Avoid release to the aquatic environment. Dispose of waste residues responsibly as low-hazard chemical waste through a licensed waste removal company.

Dispose of the container by rinsing it properly. Do not re-use. Destroy mechanically and dispose of as ordinary waste through a licensed waste removal company.

Refer to the manufacturer or supplier for information on recovery or recycling, for options on reclamation, and on disposal of unused material.

The physical/chemical properties of the product should have no significant effect on disposal procedures.

No special precautions for incineration are required.

There are no special precautions for landfill. The active ingredient occurs naturally and is of no environmental concern, except that it may cause proliferation of alien species.

There is no other relevant information.

14. Transport information

UN number:	Not classified as dangerous in the context of transport regulations.
UN proper shipping name:	Not applicable.
UN packing group number:	Not applicable.
UN transport hazard class(es):	Not applicable.
A known marine pollutant (IMDG Code)?	Not a marine pollutant.
A known severe marine pollutant?	Not a marine pollutant.
Environmentally hazardous, ADR?	Not classified as dangerous in the context of transport regulations.
Environmentally hazardous, RID?	Not classified as dangerous in the context of transport regulations.
Environmentally hazardous, ADN?	Not classified as dangerous in the context of transport regulations.



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Regulations for hazardous chemical agents 2021, Department of

Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).

The National Environmental Management Act, 107 of 1998 (NEMA). Guidelines on the administration of incidents, as described in section

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Transport in bulk by sea, IMO?Not classified as dangerous in the context of transport regulations.There are no special precautions which a user needs to be aware of or needs to comply with.

15. Regulatory information

Employment and Labour (March 2021).

Relevant safety regulations:

Relevant health regulations: Relevant environmental regulations:

30 of the NEMA, Department of Environmental Affairs (2019).Subject to the Montreal Protocol?No.Subject to the Stockholm Convention?No.Subject to the Rotterdam Convention?No.Subject to any prohibitions?No.Subject to any restrictions?No.

16. Other information

SDS identification or reference number: 029

Date of the previous revision of this SDS: Not dated. Previous revision number: Not numbered.

There is no additional information relevant to the material's nature or use, or any other relevant information.

Abbreviations that may have been used in this document:

AND means European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR means Agreement Concerning the International Carriage of Dangerous Goods by Road. bw means body weight.

CAS means Chemical Abstract Service.

Cat. means Category.

CFU means colony forming units.

GHS means Globally Harmonised System of Classification and Labelling of Chemicals.

IMDG Code means International Maritime Dangerous Goods Code.

IMO means International Maritime Organisation.

IRAC MoA means Insecticide Resistance Action Committee Mode of Action (Classification Scheme).

NEMA means National Environmental Management Act.

NOEC means no observed effect concentration.

OB means occlusion body.

RID means Regulations Concerning the International Carriage of Dangerous Goods by Rail.

SDS means safety data sheet.

STOT means specific target organ toxicity.

UN means United Nations.



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This safety data sheet was compiled in compliance with the following regulations and guidelines:

- a. Regulations for hazardous chemical agents 2021, Department of Employment and Labour (March 2021).
- b. The globally harmonised system of classification and labelling of chemicals (GHS), 9th Revised Edition, United Nations (2021).
- c. Globally harmonised system of classification and labelling of chemicals (GHS), SANS 10234:2019, Ed. 2.00 (2019).