

MATERIAL SAFETY DATA SHEET

Version 1.0

Date of the data sheet: 13.10.2020

Product Name: MYCOFRIEND

1. Product and Company Identification

Product: MYCOFRIEND

Usage: Biological product for agriculture

Supplier/Manufacturer: Private Enterprise «BTU-Center»
street Budivelnykiv, 35
Ladyzhin, Vinnytsia Region, 24321
Ukraine

Telephone: +38(04343) 6-44-84, 6-40-15

2. Composition/Information on Ingredients

Product description: Comprehensive biological product obtained by microbiological synthesis, by deep cultivation of strains of microorganisms *Glomus* sp., *Trichoderma harzianum*, *Bacillus subtilis*, *Bacillus megaterium*, *Bacillus mucilaginosus*, *Enterobacter* sp., *Pseudomonas fluorescens*, *Streptomyces* sp. on a liquid nutrient medium under aseptic conditions.

Dangerous ingredients: None

3. Hazards Identification

Important hazards: None

4. First Aid Measures

Inhalation: Remove to fresh air. Visit a doctor if an allergic reaction occurs

Skin Contact: Wash with water

Eye Contact: Flush with water

Ingestion: Drink water

5. Fire Fighting Measures

Type of material:	Fire-fighting liquid
Extinguishing Media:	General measures. Special fire safety measures do not require.
Hazardous Decomposition Products:	None

6. Accidental Release Measures

Environmental precautions:	Is not toxic
Personal precautions:	Respiratory protection is recommended
Destruction and clean up:	No special methods of neutralization are needed. Empty packaging should be thrice rinsed, punctured and disposed of as household waste.

7. Handling and Storage

Handling:	Ensure adequate ventilation when handling.
Storage:	Must be stored under cool, dry conditions 12 months from the date of manufacture at a temperature from 4 °C to 10 °C or 6 months from the date of manufacture at a temperature from 10 °C to 15 °C
Incompatible materials:	Does not form toxic compounds with other substances. Compatible with other nutrition and plant protection products (micro and macro elements, growth stimulants, adherents, chemical pesticides, etc. Please check with the representative of manufacturer for details on compatibility with chemical active substances.). When used in a tare mix with chemical pesticides, MYCOFRIEND is added in the last resort.

8. Exposure Controls/ Personal Protection

Technical measures/precautions:	Adequate ventilation
Personal protection	
Eye Protection:	The product may cause slight eye irritation. Safety glasses are recommended.
Skin and body protection:	The product is not a skin irritant although an allergic reaction may occur for sensitive people. Wash with soap and water. Visit a doctor if reaction persists

9. Physical and Chemical Properties

Physical state:	Liquid (suspension)
Colour:	From cream to brown

Odour:	Specific
pH	3.7 – 8.0
Moisture content:	Not regulated
Density:	1010,0 ± 15,0 g/l
Solubility:	Soluble
Solubility in organic solvents:	Soluble
Partition coefficient:	Not applicable
Vapour pressure:	Not applicable
Boiling point:	Not applicable
Melting point:	Not available
Flash point:	Not available
Explosive properties:	Not explosive
Auto-ignition temp:	Not available

10. Stability and Reactivity

The working solution of the biological product MYCOFRIEND is prepared on the day of treatment, if necessary stored in a cool dark place for no more than 4 hours, immediately before use, stir for homogeneity. The working solution is unstable under direct sunlight.

Hazardous decomposition products:	None identified
Materials to avoid:	None
Conditions to avoid:	Avoid very low or high temperatures.

11. Toxicological Information

Acute oral toxicity (effect, organ damage).	LD50 > 5000 mg / kg. Species of animals: white rats (males). When injected into the gastrointestinal channel LD50, MYCOFRIEND exceeds 5000 mg / kg. When the oral route to the body, the biological preparation MYCOFRIEND belongs to low-risk compounds (Class 4 hazard in accordance with GOST 12.1.007-76).
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Acute inhalation toxicity (effect, organ damage).

In the inhalation route to the organism, the biological preparation MYCOFRIEND belongs to moderately hazardous products - 3 classes of danger (LD50 > 5001 mg / m3) in accordance with GOST 12.1.007-76.

Cumulative properties for drugs based on the products of vital activity of microorganisms (antibiotics, toxins, etc.).

Cumulative effect is not typical for a drug based on live bacteria.

Irritating effect on the mucous membranes of the eyes and skin:

Not detected

Toxicological characteristics of other components of the drug.

Not toxic

Sensibilizing effect of the drug in the subchronic experiment.

Does not show sensitizing properties
(Does not have sensitizing effect on guinea pig skin).

Immunomodulatory effect of the drug:

Allergic reaction is not detected

12. Ecological Information

Fish toxicity:

Not known

Biodegradability:

Biodegradable.

13. Disposal Considerations

No special methods of neutralization are needed.

14. Transport Information

Follow the safety requirements applied to the vehicle. Transportation with chemical pesticides, pesticides and other chemicals is not allowed. The product is not classified as a dangerous cargo.

15. Regulatory Information

Symbol:

Not applicable to a living organism

Risk Phrases:

None – None toxic

Safety Phrases:

Keep locked up and out of reach of children, uninformed persons and animals

Wash hands after use

National Legislation: Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act

16. Packing and Labelling

Packages or bottles (cans) from 5 sm³ (ml) to 1 dm³ (l); cans or barrels from 5 dm³ (l) to 200 dm³ (l). IBC container 1 000 l

17. Other Information

All information provided in this Material Safety Data Sheet (MSDS) is based on the current state of scientific and technical knowledge and is presented in good faith and believed to be correct. It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come into contact with this product.

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