

1. IDENTIFICATION

Product Name: Analog

Intended Use/Restrictions of use:Biofertilizer for use as foliar and or soil application for Agricultural crops

and Horticulture

Details of Supplier of SDS: Microbe Innovation Group (MIG)

P.O. Box 1143

Lichtenburg, 2740, South Africa E-mail: info@microbegroup.com

Emergency telephone: 0861-555 777 (AfriTox 24 Hour Service)

2. HAZARDS IDENTIFICATION

Classification of the Substance CLP / GHS / Hazcom 2012 Classification: Not classified as hazardous

Skin Contact:

Eye Contact:

Non-irritant

Non-irritant

Inhalation: Not an inhalation hazard under normal conditions of use.

Ingestion: Low toxicity product. It is highly unlikely that a sufficient quantity would

be accidentally swallowed to cause any injury.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	EC#	Classification GHS
Trichoderma spp.	Not assigned	Not assigned	Not classified as hazardous

4. FIRST AID MEASURES

Skin Contact: Wash exposed skin with soap and water.

Eye Contact: Flush thoroughly with water for 15 minutes. If any irritation persists

seek medical attention.

Inhalation: If breathed in, move person into fresh air. Get medical attention if any

signs of sensitization (e.g. difficult breathing, chest pain, headache, and

flu like symptoms) occur

Ingestion: Drink water, do not induce vomiting. Seek medical attention.

Advice to Physician: Symptomatic treatment

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SDS Number: 2020-001

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ANALOG SAFETY DATA



5. FIRE-FIGHTING MEASURES

Type of Material: Non-combustible liquid.

Extinguishing Media: This product is not flammable or combustible. If caught in a fire,

use media appropriate for surrounding fire.

Special Exposure Hazards: This product does not burn freely.

Special Protective Equipment: Normal firefighting bunker gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use protective clothing, gloves, safety goggles and boots. Do not

swallow.

Environmental Precautions: Avoid disposal of large amounts into drains, surface water or

groundwater.

Disposal Method(s): Carefully clean up spilled material and wash exposed area with soap and

water. Dispose material into suitable container, within local regulations.

7. HANDLING AND STORAGE

Handling Precautions: Follow Biosafety Level 1 procedures.

Do not eat or drink while handling the product.

Wash exposed skin with soap and water after handling this product.

Storage Conditions: Store in accordance with package instructions.

Do not freeze.

Store in a cool, dry and dark place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Standard precautionary measures for handling chemicals should be

observed.

Exposure Controls:

Skin protection Use protective clothing & gloves.
Respiratory protection No specific recommendation.

Thermal hazards None.

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SAFETY DATA



9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

Appearance: Liquid

Colour: Light Brown

Smell: Light smell of yeast

Formulation Type: Liquid (LQ)

Storage Stability: Store at a constant temperature between 4 and 24°C. Do not freeze.

Avoid temperature fluctuations.

Shelf Life: 12 months at room temperature.

Bulk Density: 1000 kg/m³ Flammability: Non-flammable

Flash Point: Not applicable

pH of 1% Aqueous Dilution: pH 5-6

Oxidizing Properties: Non-oxidizing
Corrosiveness: Non-corrosive

Water Content: 97%

Solubility in Water:

Foaming:

Not applicable

Particle size:

Not applicable

Not applicable

Non-volatile

Viscosity:

Not applicable

10. STABILITY AND REACTIVITY

Stability: Trichoderma spp and its active metabolites lose viability with time. This

product is stable for 12 months when stored at a constant temperature

between 4 and 24°C.

Conditions to Avoid: Avoid temperature fluctuation. Avoid temperatures above 24°C and

below 4°C. Do not freeze.

Materials to Avoid: Strong oxidizing agents, acids, alkalis, *non-compatible fungicides and

agrochemicals.

Hazardous Decomposition Products: None known

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11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:> 1.0 x 109 CFU/animal (rat)Eye Irritation:Minimal irritation (rat)Skin Irritation:Non-irritant (rabbit)

Acute Pulmonary: Non-infective to mammals. $> 5.8 \times 10^7$ CFU/animal (rat) Acute Intra-peritoneal: Non-infective to mammals. $> 4.9 \times 10^7$ CFU/animal (rat) Intravenous: Non-infective to mammals. $> 1.0 \times 10^7$ CFU/animal (rat)

Chronic Effects: None of the components is known as carcinogenic; does not contain

dangerous goods. Not classified by NTP, IARC or OSHA. Non infective

and not pathogenic in rat.

12. ECOLOGICAL INFORMATION

Environmental Behaviour: Trichoderma occurs naturally in the soil.

Mobility and Bio-accumulation

potential:

Estimated half-life of conidia spores in water is around 6 weeks.

Ecotoxic Effects: There are no published reports of disease associated with Trichoderma

in birds, wild mammals, fish, insects,

Earthworms and plants.

General Information: No acute or chronic effects are known.

13. DISPOSAL CONSIDERATIONS

Precautions: None of the ingredients raise concern for the environment.

Disposal of Product: Unwanted product may be safely disposed of in a land-fill or discarded

as non-hazardous waste in accordance with local regulations.

14. TRANSPORT INFORMATION

Road/rail:

Not classified as dangerous in the meaning of transport regulations.

Not classified as dangerous in the meaning of transport regulations.

ICAO:

Not classified as dangerous in the meaning of transport regulations.

ADR:

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Supply Classification:

Hazard Symbols:

None

Risk Phrases:

None

Safety Recommendations: Keep out of reach of children, uninformed persons and animals.

Wear protective gloves.

Do not swallow.

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To avoid risks to human health and the environment, comply with the instructions for use.

16. OTHER INFORMATION

Recommended Use:Biofertilizer for use as foliar and or soil application for Agricultural crops

and Horticulture

Further Information: Product classified and safety datasheet produced according to GHS

directives.

The information contained in this SDS was compiled using the latest and most reliable information available to Microbe Innovation Group Pty Ltd. The data is based on the current expertise and presents the health, safety and environmental aspects of this product. They form no guarantee of product properties. Recommendations presented in this SDS apply only to the product as originally supplied. If other ingredients are used in the processing of this product, the recommendations for the use and handling of that product must be verified.

This document contains important information in order to ensure the safe storage, handling and use of this product. The information in this document must be brought to the attention of the safety/health/environmental advisor within your organisation. The information in this document must be made known to everyone whose work involves this product.

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