

Safety Data Sheet: Fyto MicroPlex

According to UN GHS 9th Ed, SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

SECTION 1. IDENTIFICATION OF MIXTURE/SUBSTANCE

1.1 PRODUCT IDENTIFIERS

Product Name: Fyto MicroPlex

Product Type: Plant Micro-Nutrient

Product Description: Brown/Cream Powder

1.2 DETAILS OF SUPPLIER OF SAFETY DATA SHEET

AgriLibrium (Pty) Ltd, Suite #120, Private Bag X1, Melkbosstrand, 7437, South Africa

1.3 RECOMMENDED AND RELEVANT USES

Identified Uses: Micro-nutrient.

1.4 EMERGENCY CONTACT

Emergency Number: +27 861 555 777

SECTION 2. HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF MIXTURE OR SUBSTANCE

Pictogram(s):    

Signal word: Danger

Hazard Statement(s):

H360	May damage fertility or the unborn child
H411	Toxic to aquatic life with long-lasting effects
H400	Very toxic to aquatic life

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H318	Causes serious eye damage
H302	Harmful if swallowed

2.2 PRECAUTIONARY STATEMENTS

P102	Keep out of reach of children.
P203	Obtain, read and follow safety instructions before use
P264 + P265	Wash hands thoroughly after handling. Do not touch eyes.
P280	Wear protective gloves/ eye protection
P318	If exposed or concerned, get medical advice
P273	Avoid release to the environment
P305+P354+P338	If in eyes: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P319	Get medical help if you feel unwell.

2.3 OTHER HAZARDS

None

SECTION 3. COMPOSITION & INGREDIENTS

3.1 PRODUCT DESCRIPTION AND SUBSTANCES

Chemical Name:	Iron Sulphate
CAS No.	13463-43-9
Formulation	5 - 10 %
Chemical Name:	Zinc Sulphate
CAS No.	7446-19-7
Formulation	20 - 30 %
Chemical Name:	Copper Sulphate
CAS No.	7758-99-8

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Formulation	5 - 10%
Chemical Name:	Disodium Octaborate
CAS No.	12280-03-4
Formulation	10 - 20 %
Chemical Name:	Fulvic Acid
CAS No.	-
Formulation	10 - 20 %

SECTION 4. FIRST-AID MEASURES

In the case of seeking medical attention, provide this safety data sheet to the physician in attendance.

4.1 DESCRIPTION OF NECESSARY FIRST-AID MEASURES

Following Ingestion: If product has been ingested seek medical help, DO NOT induce vomiting unless instructed to so by a medical physician. Drink water and rinse mouth with water.

Following Skin Contact: If skin irritation occurs, wash affected areas of skin with plenty of water for at least 15 minutes. Seek medical help if skin irritation persists.

Following Eye Contact: Cautiously wash eyes with plenty of water for at least 15 minutes. If eye irritation continues to occur seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA

Dry powder or Carbon Dioxide

5.2 SPECIFIC HAZARDS

Combustion products may cause irritation

5.3 SPECIAL PROTECTIVE ACTIONS

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Not applicable

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS

Protective Equipment: Ensure that protective nitrile gloves, safety goggles and safety boots are used for personal protection when cleaning spillages. Isolate area of spillage.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid release into aquatic environments

SECTION 7. HANDLING & STORAGE

7.1 SAFE HANDLING PRECAUTIONS

Use product in agreement with regards to good industrial hygiene and safety. Do not eat, drink or smoke whilst handling or using the product. When handling product, wear suitable PPE (Personal Protective Equipment) such as nitrile gloves, safety goggles and safety shoes. Avoid ingestion of product as well as eye and skin contact as far as possible. Keep away from strong oxidising agents.

7.2 CONDITIONS FOR SAFE STORAGE

Keep out of reach of children and animals. Store in a cool, dry, well-ventilated are. Do not store together with strong oxidising agents or highly alkaline products.

SECTION 8. EXPOSURE CONTROLS

Occupational Exposure Limits: None

Biological Exposure Limits: None

8.1 APPROPRIATE ENGINEERING CONTROLS

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Store in demarcated area and ensure that the product does not come into direct contact with other hazardous chemicals i.e., highly alkaline products. Ensure that bags are tightly closed to avoid any spillages.

8.2 INDIVIDUAL PERSONAL PROTECTIVE EQUIPMENT (PPE)

Depending on application or handling of product, personal protective equipment (PPE) should be worn and used. Safety goggles should be worn when handling product to avoid contact with eyes. Long overall clothing should be worn when handling product to avoid contact with skin. Impermeable gloves can be worn when handling product. Safety shoes should be worn when handling pallets or bags of product.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

9.1 BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

- a) **Appearance:** Brown/Cream Powder
- b) **Odour:** Odourless
- c) **pH:** No information available
- d) **Melting point/range (°C):** No information available
- e) **Boiling point/range (°C):** No information available
- f) **Flash point (°C):** Not applicable.
- g) **Evaporation rate:** No information available.
- h) **Flammability:** N/A
- i) **Ignition temperature (°C):** No information available.
- j) **Upper/lower flammability/explosive limits:** No information available.
- k) **Vapour pressure (25°C):** No information available.
- l) **Vapour density:** No information available.
- m) **Specific Gravity:** No information available
- n) **Water Solubility:** Water Dispersible

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- o) Viscosity:** No information available.
- p) n-Octanol/Water partition coefficient:** No information available.
- q) Auto-ignition temperature:** No information available.
- r) Decomposition temperature:** No information available.
- s) Explosive Properties:** No information available.
- t) Oxidizing Properties:** No information available.

9.2 OTHER INFORMATION

No other Data Available

SECTION 10. STABILITY & REACTIVITY

10.1 REACTIVITY & CHEMICAL STABILITY

The product is stable and not reactive under correct and recommended storage conditions.

10.2 CONDITIONS TO AVOID

Contact with any incompatible materials.

10.3 INCOMPATIBLE MATERIALS

Highly Alkaline products

10.4 HAZARDOUS DECOMPOSITION PRODUCTS

None

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SECTION 11. TOXICOLOGICAL INFORMATION

Components	Concentration (%)	Dermal	Oral	Inhalation
Iron Sulphate	5 - 10	No data	No data	No data
Zinc Sulphate	20 - 30	No data	No data	No data
Copper Sulphate	5 - 10	No data	No data	No data
Disodium Octaborate	20 - 30	No data	No data	No data
Fulvic Acid	20 - 30	1100 mg/kg	500 mg/kg	1,5 mg/kg

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Oral Toxicity: Category 4

Acute Dermal Toxicity: Not classified

Acute Inhalation Toxicity: Not classified

Chronic toxicity: Not classified

Skin corrosion/irritation: Not classified

Eye corrosion/irritation: Category 1

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Category 1B

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

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Aspiration hazard: Not classified

11.2 ADDITIONAL INFORMATION

No additional information available

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY

No information available

12.2 PERSISTANCE AND DEGRADABILITY

No information available

12.3 BIOACCUMULATIVE POTENTIAL

No information available

12.4 MOBILITY IN SOIL

No information available

12.5 RESULTS OF PBT & VPVB ASSESSMENT

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

First consider re-using or recycling of product before regarding as waste material. Disposal of product should be conducted to municipal, provincial and national law and regulations. National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008, R.634). When spillage of product occurs, dilute with large amounts of water and wash away.

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SECTION 14. TRANSPORT INFORMATION

Transport Pictogram(s):



	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN No.	Not Regulated	Not Regulated	Not Regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard class(es)	Not Regulated	Not Regulated	Not Regulated
Packaging group	Not Regulated	Not Regulated	Not Regulated
Marine pollutant	Yes	Yes	Yes

SECTION 15. REGULATORY INFORMATION

Occupational Health and Safety Act, 1993. Environmental Conservation Act 73 of 1989. National Water Act 36 of 1998. General Safety Regulations 1986. Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021. Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

SECTION 16. OTHER INFORMATION

16.1 LEGISLATION RELATED TO SAFETY DATA SHEET

This safety data sheet has been designed in according to the standards of the International Organization for Standardization.

16.2 DISCLAIMER

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Validated by: Dr C. Malan & H. Korff on 28/05/2022

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