

## Safety Data Sheet: Multifol

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:** Multifol

**Product Type:** Foliar Applied Plant Nutrient

**Product Description:** Light Brown Liquid

#### 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:** Foliar applied macro- and 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):

H314	Causes severe skin burns and eye damage
H360	May damage fertility or the unborn child

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### 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
P302 + P361 + P354	If on skin: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes

### 2.3 OTHER HAZARDS

None

## SECTION 3. COMPOSITION & INGREDIENT

### 3.1 PRODUCT DESCRIPTION AND SUBSTANCES

<b>Chemical Name:</b>	Potassium Hydroxide
<b>CAS No.</b>	1310-58-3
<b>Formulation</b>	5 - 10 %
<b>Chemical Name:</b>	Disodium Octaborate
<b>CAS No.</b>	12280-03-4
<b>Formulation</b>	<1 %

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### 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, DO NOT induce vomiting unless instructed to so by a medical physician. Drink water and rinse mouth with water. Seek medical help if you continue to feel unwell.

**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

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.

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### 6.2 ENVIRONMENTAL PRECAUTIONS

No specific environmental precautions are needed. Refrain from allowing large quantities of product to enter sewer or drain.

## SECTION 7. HANDLING & STORAGE

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### 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 highly alkaline and Calcium containing products.

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### 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 highly alkaline or Calcium containing products.

## SECTION 8. EXPOSURE CONTROLS

**Occupational Exposure Limits:** None

**Biological Exposure Limits:** None

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### 8.1 APPROPRIATE ENGINEERING CONTROLS

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 caps of drums are tightly closed to avoid any spillages.

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### 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 or decanting product to avoid splashing into 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 drums of product.

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### SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

#### 9.1 BASIC INFORMATION ON PHYSICAL AND CHEMICAL PROPERTIES

- a) **Appearance:** Light Brown Liquid
- b) **Odour:** Odourless
- c) **pH:**  $5 \pm 0.1$  @ 25°C
- 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:**  $1.15 \pm 0.01$
- n) **Water Solubility:** Water Dispersible
- 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.

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### 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

Calcium containing products and alkaline materials

### 10.4 HAZARDOUS DECOMPOSITION PRODUCTS

None

## SECTION 11. TOXICOLOGICAL INFORMATION

Components	Concentration (%)	Dermal	Oral	Inhalation
Potassium Hydroxide	5 - 10	No data	No data	No data
Disodium Octaborate	<1	No data	No data	No data

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Acute Oral Toxicity:** Not classified

**Acute Dermal Toxicity:** Not classified

**Acute Inhalation Toxicity:** Not classified

**Chronic toxicity:** Not classified

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**Skin corrosion/irritation:** Skin Corrosion 1A

**Eye corrosion/irritation:** Not classified

**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

**Aspiration hazard:** Not classified

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### 11.2 ADDITIONAL INFORMATION

No additional information available

## SECTION 12. ECOLOGICAL INFORMATION

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### 12.1 TOXICITY

No information available

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### 12.2 PERSISTENCE AND DEGRADABILITY

No information available

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### 12.3 BIOACCUMULATIVE POTENTIAL

No information available

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### 12.4 MOBILITY IN SOIL

No information available

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### 12.5 RESULTS OF PBT & VPVB ASSESSMENT

No information available

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### 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.

### SECTION 14. TRANSPORT INFORMATION

Transport  
Pictogram:



	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)	8	8	8
Packaging group	III	III	III
Marine pollutant	No	No	No

### 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



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### 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.

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### 16.2 DISCLAIMER

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

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