

## MSDS – Material Safety Data Sheet

LAST REVISED: 06.16

### AGRIKELP 100 EXTRA

#### 1. IDENTIFICATION OF THE SUBSTANCE

**Product Identification:** Green liquid  
**Use:** Agriculture  
**UN No.:** Not regulated

**Supplier:** Ag-Chem Africa (Pty) Ltd  
 288 Mundt Street  
 Waltloo  
 012 - 803 0145

**Emergency number:** 012 - 803 0145

**Poison Centre:** Griffon Poison Information Centre  
 (24 Hour Poisoning Emergency Helpline)  
 082 446 8946

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Composition:** Natural kelp (*Ecklonia maxima*) suspension containing various macro and micro elements as well as cytokinins and auxins.

Nitrogen	(N)	2.0	g/l
Phosphorus	(P)	39.5	mg/l
Potassium	(K)	425.5	mg/l
Sulphur (S)	0.5	g/l	

Also contains:	Cytokinins	1	mg/l
	Auxins	27	mg/l
	Algenic acid	4	g/l

Guaranteed Analysis:	Organic Matter	5	% w/w
	Total Algenic Acid	5	ppm
	Giberalllic Acid	Not detected	
	Potassium (K <sub>2</sub> O)	0.126	% w/w

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

- May cause mild eye irritation.
- Mildly harmful if swallowed.

#### Potential Health Effects

**Inhalation:**

Not harmful if inhaled.

**Ingestion:**

Mildly harmful if swallowed.

**Skin Contact:**

Causes very mild skin irritation. Not significantly absorbed through the intact skin.

**Eye Contact:**

Causes mild irritation to eyes.

**Chronic Exposure:**

No information found.

**Aggravation of Pre-existing Conditions:**

No information found.

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### 4. FIRST AID MEASURES

**Inhalation:**

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Qualified medical personnel should perform administration of oxygen. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

**Ingestion:**

Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Do not induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Seek medical advice if necessary.

**Skin Contact:**

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use. Thoroughly clean shoes before re-use.

**Eye Contact:**

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove contact lenses after 5 minutes of flushing. Get medical attention if necessary.

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## 5. FIRE FIGHTING MEASURES

### **Fire:**

Not considered to be a fire hazard. Some could burn, but none ignite readily. Containers could explode when heated.

### **Fire Extinguishing Media:**

Extinguish small fires with carbon dioxide, dry powder or alcohol-resistant foam. Water spray or fog can be used for larger fires or cooling of unaffected stock.

### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fire may produce irritating or poisonous vapours, mists or other products of combustion.

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## 6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

### **Small Spills:**

Absorb with sand or other non-combustible absorbent material and put in a suitable container for reclamation or disposal.

### **Large Spills:**

Dike far ahead of liquid spills for later disposal. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. After spill have been cleaned up, wash area. Dispose of at an approved waste incinerator or landfill site.

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## 7. HANDLING AND STORAGE

### **Handling:**

Keep out of reach of animals, children and uninformed persons. Observe all warnings and precautions listed for the product.

### **Storage:**

Keep in tightly closed container in a shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Protect against physical damage.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Ventilation system:**

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

### **Skin Protection:**

Wear suitable personal protective equipment including overalls, rubber boots and gloves.

### **Eye Protection:**

Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Liquid; green suspension
<b>Odour:</b>	Slight marine odour
<b>Solubility:</b>	Soluble in water
<b>pH:</b>	4.67
<b>Density:</b>	0.9977 g/ml
<b>Boiling point:</b>	> 100 °C

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## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under ordinary conditions of use and storage.
<b>Hazardous Polymerisation:</b>	Will not occur.
<b>Conditions to avoid:</b>	No information found.
<b>Incompatibilities:</b>	None known
<b>Thermal Decomposition:</b>	Under fire conditions this product may decompose to liberate toxic carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ) and sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> ).

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## 11. TOXICOLOGICAL INFORMATION

No information found.

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## 12. ECOLOGICAL INFORMATION

<b>Environmental Fate:</b>	No information found.
<b>Environmental Toxicity:</b>	No information found.

This section is subject to further development.

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## 13. DISPOSAL CONSIDERATIONS

Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Dispose of container and unused contents in accordance with local environmental control regulations.

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## 14. TRANSPORT INFORMATION

<b>UN No.:</b>	Not regulated
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## 15. REGULATORY INFORMATION

<b>EC Classification:</b>	No information found.
<b>Risk-Phrases:</b>	R36/37/38 – Irritating to eyes, respiratory system and skin.
<b>Safety-Phrases:</b>	S2 – Keep out of reach of children. S24/25 – Avoid contact with skin and eyes. S36/37/29 – Wear suitable protective clothing, gloves and eye/face protection.
<b>National legislation:</b>	National Road Traffic Act, 1996 (Act 93 of 1996). Fire Brigade Service Act, 1987 (Act 99 of 1987). Occupational Health and Safety Act, 1993 (Act 85 of 1993).

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## 16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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