

# MATERIAL SAFETY DATA SHEET

## KELPAK Liquid Seaweed Concentrate

### 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Trade name:** Kelpak

**Chemical name:** *Ekclonia maxima* seaweed extract

**Manufacturer:** Kelp Products (Pty) Ltd.  
PO Box 325  
Simon's Town  
South Africa  
(021) 786 2090

### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

**Raw material:** Soluble solids from *Ekclonia maxima* 2.9%

**Additives:** Mono ammonium phosphate buffer 2.7%  
Formalin preservative 0.1%  
Nipacide A sodium <0.1%

**Use:** I. Plant growth regulator  
Auxin biological activity 10.7 mg/kg  
Cytokinin biological activity 0.03 mg/kg  
II. Fertilizer supplement  
Total Nitrogen 0.7%  
Phosphoric acid (P<sub>2</sub>O<sub>5</sub>) 1.7%  
Potash (K<sub>2</sub>O) 0.3%

### 3. HAZARDS IDENTIFICATION

**Possible exposure:** Indigestion, inhalation and skin contact

**Eye contact:** Non-irritant

**Skin contact:** Non-irritant

**Indigestion:** Non-toxic

**Inhalation:** Non-toxic

#### 4. FIRST AID MEASURES AND PRECAUTIONS

<b>Eye contact:</b>	Immediately rinse with water for 5 minutes
<b>Skin contact:</b>	Wash skin with soap and water
<b>Indigestion:</b>	Rinse mouth with water and drink large a quantity of water
<b>Inhalation:</b>	Remove product or move person to fresh air

#### 5. FIRE HAZARDS

<b>Flash point:</b>	None to boiling
<b>Flammable limits:</b>	Not applicable
<b>Extinguishing media:</b>	Use water spray, dry chemical or carbon dioxide
<b>Fire fighting procedure:</b>	Remove container from fire area
<b>Combustion products:</b>	Vapors are non-toxic and non-irritant

#### 6. ACCIDENTAL RELEASE MEASUREMENTS

**Spillage/leaking:** Stop leak, contain spill and absorb with soil or natural absorbents. Sweep up waste and place in container for disposal. Wash down area. Uncontaminated spilled material may be reused.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid eye contact and prolonged skin contact. Respiratory protection is normally not required. Sealed containers may develop pressure, open with caution. Wash hands thoroughly after handling the product.

**Storage:** Store in the original labelled container in a cool place away from direct sunlight. Keep separate from food and feed products and out of reach of children and animals.

#### 8. EXPOSURE CONTROL / PERSONAL PROTECTION

##### **Personal protective**

**equipment:** Chemical goggles or shielded safety glasses and rubber or neoprene gloves are not required, but its use is recommended.

**Respiratory:** Protection normally not required, but a respirator can be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	green liquid
<b>Odor:</b>	seaweed
<b>pH:</b>	4.6
<b>Boiling point:</b>	100°C
<b>Specific gravity:</b>	1.03
<b>Vapor pressure:</b>	not available
<b>Vapor density:</b>	not available
<b>Percent volatile:</b>	not available
<b>Solubility in water:</b>	soluble

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable for at least 2 years under normal storage conditions.
<b>Conditions to avoid:</b>	Storage in direct sunlight or above 30°C.
<b>Incompatibility:</b>	Strong bases and oxidizing agents.
<b>Hazardous decomposition:</b>	No products known.
<b>Hazardous polymerization:</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute oral LD<sub>50</sub>:</b>	>5600 mg/kg in rats – non-toxic.
<b>Acute dermal LD<sub>50</sub>:</b>	>8600 mg/kg in rats – non-toxic.
<b>Inhalation:</b>	This product is not expected to be toxic by inhalation.
<b>Skin irritation:</b>	Non-irritant in rabbits.
<b>Eye irritation:</b>	Non-irritant in rabbits.
<b>Chronic effects:</b>	None known.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicology:** Due to the non-toxic classification of this product no negative impact on wild-life is expected.

**Biodegradation:** Oxidation and microorganisms.

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal:** Contaminated absorbents and surplus product should be buried in accordance with any local legislation.

**Container disposal:** Wash thoroughly with water and soap prior to reuse.

## 14. TRANSPORTATION INFORMATION

Not regulated

## 15. REGULATORY INFORMATION

**Classification:** This product is considered non-toxic and non-irritant.

**Date of issue:** 24 January 2002

### **Important:**

This MSDS was prepared and is to be used in its present form. If the product is altered or used as a component in another material, the information on this document is not applicable. This document is generated for the distribution of health, safety and environmental data. It is not a specification sheet and data should not be construed as specifications.

The information and data are believed to be accurate, compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable governmental and local legislation.

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