

MATERIAL SAFETY DATA SHEET

KELPAK

1. IDENTIFICATION OF PRODUCT AND COMPANY

Trade name: Kelpak
Approved by IMO for use in organic agriculture

Chemical name: *Ecklonia maxima* seaweed extract

Manufactured for: Kelp Products (Pty) Ltd.
PO Box 325
South Africa
(021) 786 2090

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Raw material: Fresh material from *Ecklonia maxima* 34.26%

Additives: Preservatives and inert materials 65.74%

3. HAZARDS IDENTIFICATION

Possible exposure: Ingestion, inhalation and skin contact

Eye contact: Non-irritant

Skin contact: Non-irritant

Ingestion: Non-toxic

Inhalation: Non-toxic

4. FIRST AID MEASURES AND PRECAUTIONS

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

5. FIRE HAZARDS

Flash point:	None to boiling
Flammable limits:	Not applicable
Extinguishing media:	Use water spray, dry chemical or carbon dioxide
Fire fighting procedure:	Remove container from fire area
Combustion products:	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.
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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 their use is recommended.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown aqueous liquid

Odour: Faint seaweed

pH: 4.0 – 4.6

Boiling point: 101°C

Specific gravity: 1.01 – 1.03

Vapor pressure: Not available

Vapor density: Not available

Percent volatile: Not available

Solubility in water: Soluble, aqueous solution

10. STABILITY AND REACTIVITY

Stability: Stability guaranteed for a maximum of 3 years under recommended storage conditions in an original sealed containers.

Conditions to avoid: Storage in direct sunlight, below 0C or above 30°C

Incompatibility: Strong bases and oxidizing agents

Hazardous decomposition: No products known

Hazardous polymerization: None known

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀:	>5600 mg/kg in rats – non-toxic
Acute dermal LD₅₀:	>8600 mg/kg in rats – non-toxic
Inhalation LC₅₀:	>5.92 mg/L air in rats – non-toxic
Skin irritation:	Non-irritant in rabbits
Eye irritation:	Non-irritant in rabbits
Chronic effects:	None known

12. ECOLOGICAL INFORMATION

Ecotoxicology:	Non-toxic
Bees - LD ₅₀ (oral; 96 hr):	>100 g/bee
Algae - IC ₅₀ (72 hr):	>100 mg/L
Daphnia - EC ₅₀ (48 hr):	>1000 mg/L
Trout/Carp - LC ₅₀ (96 hr):	>1000 mg/L
Earthworm – LC ₅₀ (14 days):	>1000 mg/kg dry soil
Japanese Quail - LD ₅₀ (14 days):	>2000 mg/kg
Biodegradation:	Oxidation and micro-organisms

13. DISPOSAL CONSIDERATIONS

disposal:	Product and container to be disposed of in accordance with local Regulations.
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: 22 July 2010

Latest amendment: 08 March 2016

Important:

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