



agrichem

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material safety data sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Kelpak™
Chemical Name: *Ecklonia maxima* seaweed extract
Product Type: Seaweed Extract Fertilizer
Company Name: Agrichem
2-4 Chetwynd St (PO Box 4037)
Loganholme QLD 4129 Australia
Date of Issue: September 09, 2009

2. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance and Odour: Green Liquid.

Potential Health Effects:

Likely Routes of Exposure: Ingestion, inhalation and skin contact.

Eye Contact: Non irritant

Skin Contact: Non Irritant

Ingestion: Non toxic.

Inhalation: Non toxic.

3. INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.
Fresh material from Ecklonia Maxima	None allocated

4. FIRST AID MEASURES

If in Eyes: Rinse with plenty of water for 5 mins.

If on Skin: Rinse with plenty of water and soap.

If Inhaled: Remove product or move person to fresh air.

If Swallowed: Rinse mouth with water and drink large quantity of water.

5. FIRE FIGHTING MEASURES

This is not a flammable material.

Flash Point: None to boiling
Autoignition Temperature: Not determined
Flammability Limits: Not applicable
Combustion products: Vapors are non-toxic and non irritant.

Africa Asia Australia Europe Latin America Middle East North America



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Special Fire Fighting Procedures: This is not flammable material. Advise fire brigade of any hazard. Suitable for most extinguishing media.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Methods for Containment: Dike spill using absorbent or impervious materials such as earth, sand or clay. Collect and contain contaminated absorbent and dike material for disposal.

Methods for Cleanup and Disposal: Rinse empty drums with water and add to spray mix. Dispose of drum at a suitable site. For any spillage wash with plenty of water or absorb with earth or other inert material.

Other Information: Large spills may be reportable to the state and/or local regulatory agencies.

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.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Chemical goggles or shielded safety glasses and rubber or neoprene gloves are not required but their use is recommended.

Eye/Face Protection: To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An emergency eyewash or water supply should be readily accessible to the work area.

Skin Protection: To avoid contact with skin, wear long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves. An emergency shower or water supply should be readily accessible to the work area.

Respirator Protection: Not required but a respirator can be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green liquid.
Boiling Point:	>100° C
Solubility in Water:	Soluble
Specific Gravity:	1.00-1.05
Evaporation Rate:	Not determined
Vapor Density:	Not determined
Vapor Pressure:	Not determined
pH:	4.4 – 4.8

Note: Physical data are typical values, but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under normal handling and storage conditions.

Conditions to Avoid: Excessive heat. Do not store near heat or flame.

Avoid contact with:

1. Strong bases – May release ammonia.
2. Strong oxidising agents – may decompose



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11. TOXICOLOGICAL INFORMATION

Toxicological Data:

Data from laboratory studies on this product are summarized below:

Acute oral LD₅₀:	>5600 mg/kg in rats – non-toxic
Acute dermal LD₅₀:	>8600 mg/kg in rats – non-toxic
Inhalation LD₅₀:	>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 - LD₅₀ (oral; 96 hr):	>100 µg/bee
Algae - IC₅₀ (72 hr):	>100 mg/L
Daphnia - EC₅₀ (48 hr):	>1000 mg/L
Trout/Carp - LC₅₀ (96 hr):	>1000 mg/L
Earthworm – LC₅₀ (14 days):	>1000 mg/kg dry soil
Japanese Quail – LD₅₀ (14 days):	>2000 mg/kg
Biodegradation:	Oxidation and micro-organisms



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13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

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

This is a non dangerous good. This is non-hazardous material.

15. REGULATORY INFORMATION

On the data available this is not a dangerous product. The usual precautions should be observed when using fertiliser products

16. OTHER INFORMATION

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