



# Safety Data Sheet

Kelpak revision SDS 01 27 Jan 2017

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Kelpak™  
**Other Names :** None  
**Uses:** Organic plant food activator and catalyst  
**Chemical family:** No Data Available  
**Chemical formula:** No Data Available  
**Chemical name:** No Data Available  
**Product description:** Plant growth prompting product

### Contact details of the supplier of this Safety Data Sheet

**Company Name:** Agrichem  
**Company address:** 2 Hovey Rd  
 Yatala QLD 4207 Australia  
**Phone number:** + 61 7 3451 0000  
**Emergency contact:** Poison Information Centre Australia – 13 11 26

## 2. HAZARD IDENTIFICATION

**Poisons Schedule (Australian):** Not scheduled

**Globally Harmonised System:** This product is not considered hazardous according to the criteria of the Globally Harmonised System of classification and labelling of Chemicals (GHS).

**Hazard classification:** Not required under GHS criteria

**Signal word:** Not required under GHS criteria

**National Transport Commission (Australian)**  
 Australian Code for the transport of Dangerous Goods by Road and Rail (ADG Code)

**Dangerous Goods Classification:** Not a Dangerous Goods according to the criteria of the ADG Code

## 3. INFORMATION ON INGREDIENTS

### Ingredients

Chemical entity	Formula	CAS Registry Number	Proportion %w/w
Fresh material from Ecklonia maxima	No Data Available	No Data Available	≥30 - 60
Preservatives & inert materials	No Data Available	No Data Available	>60



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## 4. FIRST AID MEASURES

### Description of necessary measures according to routes of exposure

<b>Swallowed</b>	Rinse mouth with water and drink a large quantity of water.
<b>Eye</b>	Hold eye open and rinse slowly and gently with water for 5 minutes. Remove contact lenses, if present, after the first few minutes, then continue rinsing eye.
<b>Skin</b>	Take off contaminated clothing. Rinse skin with plenty of water.
<b>Inhalation</b>	Move the person to fresh air. If the person is not breathing, call an ambulance and then give artificial respiration, preferably mouth-to-mouth, if possible.
<b>Advice to Doctor</b>	No data available

Have the product container or label with you when calling the Poison Information Centre or a doctor or going for treatment.

<b>Medical Conditions Aggravated by Exposure</b>	No data available
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## 5. FIRE FIGHTING MEASURES

<b>General measures</b>	Clear fire area of all non-emergency personnel. Stay upwind, keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if this can be done without risk.
<b>Flammability conditions</b>	Aqueous solution, combustion not expected.
<b>Extinguishing Media</b>	Use most suitable extinguishing media for the surrounding fire.
<b>Fire and Explosion Hazard</b>	No data available.
<b>Hazardous Products of Combustion</b>	Vapours are non-toxic and non-irritant.
<b>Special Fire Fighting Instructions</b>	Do not allow fire fighting water to reach waterways, drains or sewers.
<b>Personal Protective Equipment</b>	Fire fighters should wear a positive pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (including fire fighting helmet, coat, trousers, boots and gloves)
<b>Flash point</b>	Non to boiling
<b>Lower Explosion Limit</b>	No data available
<b>Upper Explosion Limit</b>	No data available
<b>Auto ignition Temperature</b>	No data available



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Hazchem Code No data available

### 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedures</b>	Stop leak if safe to do so. Slippery when spilt
<b>Clean up Procedures</b>	Soak up spill with natural absorbents such as soil or diatomaceous earth. Sweep/shovel/vacuum into an appropriate closed container for disposal. Decontaminate tools and equipment following clean-up. See Section 13.
<b>Containment</b>	Stop Leak if safe to do so. Isolate the danger area. Dike with soil or natural absorbents.
<b>Environmental Precautionary Measures</b>	DO NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority and local Waste Management
<b>Evacuation Criteria</b>	Evacuate all unnecessary personal
<b>Personal Precautionary Measures</b>	Personal involved in the clean-up should wear full protective clothing as listed in section 8.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Ensure an eye bath and safety shower are available and ready to use. Observe good hygiene practices and recommended procedures. Wash thoroughly after handling. Avoid contact with eyes, and prolonged skin contact, and clothing. Avoid inhaling product mist spray or vapour.
<b>Storage</b>	Store in a cool, dry, well-ventilated area away. Keep containers tightly closed when not in use. Store away from food/feed products, and incompatible materials as per section 10. Protect from direct sunlight.
<b>Container</b>	Store in original packaging as approved by manufacturer

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	No exposure standard has been established for this product by Safe Work Australia.
<b>Exposure Limits</b>	No Data Available
<b>Biological limits</b>	No information on biological limit values for this product.



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**Engineering Measures**

A system of local and or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust extraction / ventilation is preferred as it controls emissions at the source preventing dispersion of the general work area. Adequate ventilation should be provided so that exposure limits are not exceeded.

**Personal Protection  
Equipment PPE**

RESPIRATOR: Not normally required, but can be used.

EYES: Safety glasses with side shields (AS1336/1337). Not required but their use is recommended.

HANDS: Wear rubber / PVC gloves (AS2161). Not required but their use is recommended.

CLOTHING: Long sleeved protective clothing and safety footwear (AS3765/2210) Not required but their use is recommended.

**Work Hygienic practices**

No Data Available

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Physical state</b>	Liquid
<b>Appearance</b>	Translucent to opaque
<b>Odour</b>	Slight, Characteristic of marine plants
<b>Colour</b>	Green
<b>pH</b>	4.4 – 4.8
<b>Vapour pressure</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling point</b>	101Degrees Celsius
<b>Melting point</b>	No Data Available
<b>Freezing point</b>	No Data Available
<b>Solubility in water</b>	Soluble, aqueous solution
<b>Specific gravity</b>	1.02 – 1.05
<b>Flash point</b>	No Data Available



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<b>Auto Ignition Tem</b>	No Data Available
<b>Decomposition temp</b>	No Data Available
<b>Molecular weight</b>	No Data Available
<b>Particle size</b>	No Data Available
<b>Particle size distribution</b>	No Data Available
<b>Viscosity</b>	No Data Available

**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

<b>Chemical Stability</b>	Stable under normal handling and storage conditions, in original sealed containers.
<b>Conditions to Avoid</b>	Storage in direct sunlight, below 0 or above 40 degrees Celsius.
<b>Materials to Avoid</b>	1. Strong bases 2. Strong oxidising agents
Hazardous Products of Decomposition	No Data Available
Hazardous product polymerization	No Data Available

### 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	Acute oral LD <sub>50</sub> >5600 mg/kg in the Rat – non toxic. Acute dermal LD <sub>50</sub> >8600 mg/kg in the Rat- non toxic. Inhalation LC <sub>50</sub> >5.92 mg/l in the Rat – non toxic
<b>Eye Irritant</b>	Non-irritant in rabbits
<b>Ingestion</b>	No Data Available
<b>Inhalation</b>	No Data Available
<b>Skin Irritation</b>	Non-irritant in rabbits
<b>Skin Sensitization</b>	Not available
<b>Carcinogen Category</b>	No Data Available

### 12. ECOLOGICAL INFORMATION



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<b>Ecotoxicity</b>	Bees Algae Daphnia Trout / Carp Earthworm Japanese quail	LD <sub>50</sub> (oral;96hours): >100 µg/bee LC <sub>50</sub> (72 hour): >100 mg/l EC <sub>50</sub> (48 hours): >1000 mg/l LC <sub>50</sub> (96 hours): >1000 mg/l LC <sub>50</sub> (14 days): >1000 mg/kg dry soil LD <sub>50</sub> (14days) >2000mg/kg
<b>Persistence/Degradability</b>	Oxidation and micro-organism's	
<b>Mobility</b>	No Data Available	
<b>Environmental Fate</b>	No Data Available	
<b>Bioaccumulation Potential</b>	No Data Available	
<b>Environmental Impact</b>	No Data Available	
<b>Soil Adsorption / Mobility</b>	Not Data Available	

### 13. DISPOSAL CONSIDERATIONS

**General Information** For any spillage, wash with plenty of water or absorb with earth or other inert materials and dispose as per local regulations.

**Special Precautions for landfill** None

### 14. TRANSPORTATION INFORMATION

This product is not considered as a dangerous good and is not subject to the provisions of ADR (road), RID (railway), IMDG (sea) and IATA (airplane).

### 15. REGULATORY INFORMATION

This product is non-toxic and non-irritant.  
 The usual precautions should be observed when using fertiliser or plant growth promoting products.

### 16. OTHER INFORMATION

The information contained in this SDS is by way of general comment only. Because conditions of use, suitability of product and application conditions are beyond the control of Agrichem, this SDS does not offer any advice in respect to any product. The authors and Agrichem Manufacturing Industries Pty Ltd hereby disclaim any liability to any person, property, or thing in respect of any consequence of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon whole or part of the contents of this SDS.

**Key**



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< Less than

> Greater than

**a.i.** Active ingredient

**ADG Code** Australian dangerous goods code

**AICS** Australian Inventory of Chemical Substances

**atm** Atmosphere

**CAS** Chemical Abstract Service (registry number)

**cm<sup>2</sup>** Square Centimetres

**CO<sub>2</sub>** Carbon Dioxide

**deg C (°C)** Degrees Celsius

**EPA** Environmental Protection Agency based in each state of Australia

**g** Grams

**g/cm<sup>3</sup>** Grams per Cubic Centimetre

**g/l** Grams per Litre

**HSIS** Hazardous substances information system

**HSNO** Hazardous substances and New Organism

**HDPE** High density polypropylene

**IDLH** Immediately Dangerous to Life and Health

**Immiscible** Liquid are insoluble in each other

**inHg** inch of Mercury

**InH<sub>2</sub>O** Inch of Water

**K** Kelvin

**kg** Kilogram

**kg/m<sup>3</sup>** Kilogram per Cubic Metre

**LC<sub>50</sub>** LC stands for lethal concentration, LC50 is the concentration of a product in air that will cause the death of 50% of a population of test animals. Product is normally inhaled for between 1 and more typically 4 hours

**LD<sub>50</sub>** LD stands for lethal dose. LD50 is the amount of product given in a single dose, causing death in 50% of a population of test animals.

**m<sup>3</sup>** Cubic Metre

**mbar** Millibar

**mg** Milligram

**mg/24H** Milligrams per 24 hours

**mg/kg** Milligrams per Kilogram

**mg/m<sup>3</sup>** Milligrams per Cubic Metre

**Misc** or **Miscible** Liquids from one homogeneous liquid phase regardless of the amount of either component present

**mm** Millimetre

**mmH<sub>2</sub>O** Millimetres of Water

**mPa.s** Millipascals per Second

**MSHA** Mine safety and health administration

**N/A** Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

**NOHSC** National Occupational Health and Safety Commission

**OECD** Office for Economic Co-operation and Development

**PEL** Permissible Exposure Limit

**Pa** Pascal

**ppb** Parts per Billion

**PPE** personal protective equipment

**ppm** Parts per Million

**ppm/2h** Parts per million per 2 hours

**ppm/6h** Parts per million per 6 hours

**psi** Pounds per square inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure



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**SCBA** Self Contained Breathing Apparatus

**SWA** Safe Work Australia

**STEL** Short Term Exposure Limit

**TVL** Threshold Limit Value

**TWA** Time Weighted Average

**µg** Microgram

**UN** United Nations

**wt** Weight

**End of SDS**