



MATERIAL SAFETY DATA SHEET

WONDER KELP

Date Issued: February 2017

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Revision No.: 4

Print Date: 20/11/18

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: WONDERSOL KELP

SUPPLIER: EFEKTO

PO BOX 652147

BENMORE

2010

TEL No. 0861 333 586

EMERGENCY TELEPHONE NUMBERS:

SPILLAGES: 083 1233 911

POISONINGS: 086 199 9071

Poisons Information Help Line 0861 555 777 (all hours).

Griffon Poison Centre 082 446 8946

Use: A liquid concentrate of freshly harvested seaweed (*Ecklonia maxima*), for home garden or agricultural use.

2. HAZARDS IDENTIFICATION

Likely routes of exposure: Skin and eye contact, ingestion and inhalation.

Eyes: If product comes into contact with eyes, mild eye irritation may occur.

Skin: Not a skin irritant.

Inhalation: Normal use should not cause irritation.

Ingestion:

Small quantities are unlikely to cause any toxic effect.

Large quantities may give rise to gastro-intestinal disorders

Carcinogenicity: None

Medical Conditions Generally Aggravated By Exposure: None Known

Symbol: None

Risk phrases: R22

UN No.: Not regulated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients:

Active ingredients.	CAS No.:	EC No.:
Organic Kelp Containing plant stimulants* Water	None	None



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Mono ammonium phosphate 26.86 g/kg	11-52-0	-
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Components; *Kelp consists of a mixture of Natural Auxins and Natural Cytokinins. It also contains Mono ammonium phosphate and preservatives.

Natural Auxins:

Indole -3-acetic acid; Indole-3carboxylic acid; Indole -3-aldehyde; N,N-dimethyltryptamine; N-hydroxyethylphalimide.

Natural Cytokinins:

Trans-zeatin; cis-zeatin; trans-ri bosyizeatin; dihydrozeatin; isopentenyladenine.

Chemical Name: Kelp

Chemical Family: Plant Growth Stimulant or Plant Growth Regulator.

Chemical Formula: None

NIOSH/RTECS No.: Not available.

4. FIRST-AID MEASURES

Kelp is a basically harmless product when handled correctly. It is made from edible seaweed.

Skin Contact:

Wash the affected area with soap and water.

Eye Contact:

Flush/irrigate eyes with copious amounts of water for at least 10 minutes.

Obtain medical attention if eye irritation persists.

Ingestion:

Do not induce vomiting. Give water or milk to drink.

Obtain medical attention if more than a small quantity has been swallowed or when relevant symptoms occur after swallowing.

Inhalation:

Remove from source of exposure. Obtain medical advice if ill effects occur.

Advice to physician: There is no antidote. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

The product is non flammable.

Extinguishing agents:

Extinguish small fires with water, carbon dioxide, dry powder, or alcohol-resistant foam.

Firefighting:

Remove containers from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent. Water can be used to cool unaffected containers. Avoid inhaling hazardous vapours. Keep upwind.

Personal protective equipment:

Fire may produce irritating or poisonous vapours, mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spillage:



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Any spillage of Kelp should be soaked up with sand or other non-combustible absorbent material and swept up and placed in a clean, labelled open container for safe disposal.

Depending on the degree and nature of contamination, dispose of by use as a plant stimulant on a farm or to an authorized waste facility.

Take care to avoid the contamination of watercourses and drains and inform the appropriate authority in case of accidental contamination of watercourses.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes. Wash hands before eating, drinking, chewing gum, and smoking.

Advice on protection against fire and explosion: No special requirements against fire and explosion

Storage:

Store in a cool dry area out of sunlight. Keep container closed when not in use. Keep out of reach of children.

Adhere to local regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: None

No special protective clothing or equipment is required when handling product. No staining.

Ventilation: Adequate ventilation required to maintain fresh air flow.

Local exhaust: Adequate

Eyes: Adequate eye protection

Hands, arms and body: Adequate clothing should be worn to prevent skin contact.

Work/hygienic practices: Wash all exposed skin surfaces with soap and water after using this product.

Special equipment: Eye bath..

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid.

Colour: Green

Odour: Slight Kelp seaweed odour.

Flash point: None.

Freezing point: Not applicable.

Viscosity: 24 cps.

Density: 1,03 g/ml

pH: 4,6

Solubility in water at 20°C (g/L): Totally water soluble.

10. STABILITY AND REACTIVITY

Stability: Stable. The product contains natural plant growth hormones and needs to be kept out of direct sunlight and in a cool place to avoid a decrease in the hormone level.

Conditions to avoid: Direct sunlight.

Hazardous polymerization: Will not occur



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11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀ : > 5600 mg/kg.
Acute dermal LD₅₀: > 8600 mg/kg.
Acute inhalation LC₅₀ : No information.
Acute skin irritation: None irritant.
Eye irritation: Not an eye irritant.
Dermal sensitisation: No information.
Carcinogenicity/ Teratogenicity/ Mutagenicity: No information

12. ECOLOGICAL INFORMATION

The product contains natural plant growth hormones. It is not expected to be toxic to birds, fish or wildlife. The product is biodegradable.

13. DISPOSAL CONSIDERATIONS

Disposal:

Depending on degree and nature of contamination, dispose of by using as a plant stimulant by spraying, or send to an authorized waste facility.

Contaminated packaging: The plastic container is not suitable for re-use and needs to be disposed as per normal local authority regulations.

14. TRANSPORT INFORMATION

UN No.: Not regulated.

15. REGULATORY INFORMATION

Symbol: None

Risk phrases:

R22 Harmful if swallowed

Safety phrases:

S1/2 Keep locked up and out of reach of Children.

National legislation: In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act. No. 85 of 1993)

16. OTHER INFORMATION

Compiled by: Danie Fourie



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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.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

REFERENCES

- KELP Products, KELPAK Guide Manual: Product description and specifications.
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

END OF MSDS.