

1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product Name: **BioMAX Foliar Kelp**

LawrieCo Pty Ltd
A.B.N. 72 134 390 855
47 Naweena Road, Regency Park
SOUTH AUSTRALIA, 5013

Tel: +61 8 8260 1134
Fax: +61 8 8260 2263
Web: www.lawrieco.com.au
Email: info@lawrieco.com.au



Emergency Contact
24 hours

LawrieCo Technical Manager:
0408 268 058

Poisons Information Centre:
13 11 26 (Australia)

CAS Number	Mixture	Product Code	BIOLFK
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Other Names: Liquid kelp; Seaweed concentrate.

Product Use: As a plant foliar and soil applied fertiliser for increased efficiency, plant growth stimulation and soil conditioner.

2. HAZARD IDENTIFICATION

Classified as a Non-Hazardous Chemical

in accordance with Safe Work Australia - Hazardous Chemicals Information System (HCIS) Australia, Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

NOT Classified as a Scheduled Poison

in accordance with the Standard for the Uniform Scheduling of Medicines and Poison (SUSMP) Australia.

NOT Classified as Dangerous Goods or Classified as Dangerous Goods

in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

GHS	Non-Hazardous
SUSMP	Not a Scheduled Poison
ADG	Not Dangerous Goods

GHS Classification

Hazard Categories Not applicable

Signal Word Not applicable

Hazard Statements Not applicable

Precautionary Statements - General, Disposal

General

P101 + P102 + P103

If medical advice is needed, have the product container or label on hand. Keep out of reach of children. Read label before use.

Disposal

P501

Dispose of contents and container to an approved waste disposal plant in accordance with local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product name	BioMAX Foliar Kelp		SDS Code	8040
Product use	As a fertiliser additive only.			
Ingredients	Name	CAS Number	Proportion w/w	
	Water	7732-18-5	80.0 – < 85.0%	
	<i>Durvillaea potatorum</i> (bull kelp)	Not applicable	10.0 - < 15.0%	
	Organic acid	Proprietary	< 5.0%	

4. FIRST AID MEASURES

Description of necessary first aid measures

- Inhalation** Not an inhalation hazard but if applicator feels unwell, remove oneself to fresh air. Consult a doctor.
- Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water and give plenty of water to drink. If feeling unwell consult a doctor.
- Eyes** Rinse thoroughly with plenty of water for at least 15 minutes. Consult a doctor if irritation occurs.
- Skin and hair** If skin or hair contact occurs, remove all contaminated clothing, wash skin and hair with soap and plenty of water.
- First aid facilities** Clean water supply, soap or skin cleaner.
- Advice to doctor** If poisoning occurs, consult with the Poisons Information Centre (Telephone **13 11 26**). Have a copy of this safety data sheet or label available. Treat symptomatically.



Symptoms caused by exposure

Ingestion may cause vomiting or diarrhoea. No other known symptoms.

Medical attention and special treatment

Wash exposed skin and hair with water and soap. If swallowed give plenty of water. If in eyes flush continuously with running water for at least 15 minutes.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing equipment** Appropriate extinguishing media includes, water spray, foam, fog, dry chemical or carbon dioxide. Product is non-flammable water based, use extinguishing media that is suitable for the surrounding fire and environment.
- Specific hazards arising from the chemical fire** If exposed to an intense fire, combustion products may include; carbon monoxide (CO), carbon dioxide (CO₂) and other pyrolysis products typical of burning organic material. Gases generated in combustion may be corrosive, poisonous or irritating.
- Special protective equipment and precautions for fire fighters** Wear self-contained breathing apparatus (SCBA) and gas-tight suits for fire fighting if risk of exposure to products of combustion and decomposition. No HAZCHEM Code assigned.
- Further information** Avoid contamination with strong oxidising agents.
- | | |
|---------------------------|-------------------|
| Flash Point | No data available |
| Lower Explosion Limit | No data available |
| Upper Explosion Limit | No data available |
| Auto Ignition Temperature | No data available |



6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure eyewash and clean water are available and ready for use. Product is non-hazardous. Contain spills immediately. No emergency procedures required. For personal protection see section 8.



Environmental precautions

Prevent from entering waterways, sewage and drains. Contain spills with absorbent material or sand immediately. For any queries consult Local Statuary Authorities.

Methods and materials for containment and cleaning up

Cover stormwater drains to prevent entering waterways. Contain spills with absorbent material, dry sand or earth. Sweep and shovel into suitably labelled, closed containers for disposal or product can be applied as a fertiliser where suitable. Wash down hard surfaces with water. For any queries consult Local Statuary Authorities.

7. HANDLING and STORAGE

Precautions for safe handling

Keep out of reach of children. Use personal protective equipment. Avoid contact with eyes and skin. After use and before eating, drinking or smoking, wash all exposed skin and hair with soap and water. For personal protection see section 8.

Conditions of safe storage and incompatibilities

Containers must be clearly labelled. Store in a cool place. Keep container tightly closed in a dry well-ventilated place. Must be stored away from strong oxidising agents.

Specific end uses

Apart from uses mentioned in section 1. No other specific uses are stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards TWA (8 hour)

There are no assigned exposure standards for this product.
TWA = No data available for this mixture, however the Hazardous Chemical Information System (HCIS) specifies 10mg/m³ (for inhalable dust) and 3mg/m³ (for respirable dust).

Exposure standards STEL (15 min)

There are no assigned exposure standards for this product.

Biological limited values

There are no known Biological Limited Values that have been assigned.

Engineering controls

Natural ventilation is adequate under normal use conditions. Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the work day.

Personal Protection Inhalation/respiratory AS –NZS 1716

No inhalation protection required with normal handling unless required with application equipment that creates mists or sprays. If exposed while applying by mists or sprays use a P1 or P2 rated disposable half face mask.



Eye and face AS –NZS 1337

Safety glasses fitted with side shields should be worn at all times during the handling and application period. Do NOT wear contact lenses.

Gloves AS –NZS 2161

It is advisable to wear impervious gloves at all times during the handling and application period. Wash and dry hands after use.

Footwear AS –NZS 2210	It is advisable to wear enclosed footwear during the handling and application period.
Clothing AS –NZS 2919	It is advisable to wear protective clothing during the handling and application period. Wear long sleeve and tight weave clothing appropriate for the work situation.
Hearing AS –NZS 1270	Hearing protection not required unless required with application equipment.
Thermal hazards	Not required
Other requirements	The type of protective equipment must be selected according to the concentration and amount of the substance handled at the specific workplace. Handle in accordance with good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown viscous liquid
Odour	Seaweed odour
Odour threshold	No data available - low odour
pH (10g/L @ 20°C)	3.8 - 4.1
Freezing point	No data available
Boiling point and boiling range	No data available
Melting point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Bulk density or Specific Gravity	1.07 - 1.10
Solubility	Partially soluble and partially miscible
Partition coefficient: n-octanol/water	No data available
Decomposition temperature	No data available
Viscosity	No data available
Specific heat value	No data available
Particle size	No data available
Volatile organic compounds content	No data available
% volatile	No data available
Saturated vapour concentration	No data available
Release of invisible flammable vapours and gases	No data available
Flammability limits	No data available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions. Contains polysaccharides that can polymerise when used in liquid fertiliser mixtures.
Possibility of hazardous reactions	Will not form hazardous polymerisation reactions. Will react with strong oxidisers.
Conditions to avoid	Incompatible materials.
Incompatible materials	Strong oxidising agents.

Hazardous decomposition products

Combustion products include; carbon monoxide (CO), carbon dioxide (CO₂) and other pyrolysis products typical of burning organic material. Gases generated in combustion may be poisonous or irritating.
In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

Ingredient: Durvillaea Potatorum (bull kelp)		Information Sources: -
Concentration	10-15% by weight.	
Acute toxicity	No data available	
Acute oral toxicity	No data available	
Acute dermal toxicity	No data available	
Acute inhalation toxicity	No data available	
Specific Target Organ Toxicity STOT - repeated exposure	No data available	
Specific Target Organ Toxicity STOT - single exposure	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available;	
Respiratory or skin sensitisation	No data available	
Germ cell mutagenicity	No data available	
Carcinogenicity	Not identified as a probable, possible or confirmed human carcinogen by IARC	
Reproductive Toxicity	No data available	
Aspiration hazard	No data available	
Possible routes of exposure	Eye contact and ingestion.	
Signs and symptoms of exposure	Irritation of eyes, feeling unwell.	
Health Effect from exposure	No data available	
Other information	Ingestion may cause diarrhoea and vomiting.	
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.		

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

13. DISPOSAL CONSIDERATIONS

Spills

Prevent spills from entering drains, surface water and ground water. Contain spills with absorbent material, dry sand or earth. Sweep and shovel into suitably labelled, closed containers for disposal of product or product can be applied to soil as a fertiliser where suitable. Wash down hard surface areas with water. Disposal must be carried out in accordance with Local Statuary Authorities.

Material

Handle and dispose of unused material in compliance with current environmental waste legislation. If in doubt, contact Local Statuary Authorities. Preferred environmental method is to reuse the material if not contaminated as a fertiliser.

Contaminated Material and Packaging

Empty containers may be suitable for reuse or recycling after cleaning and appropriate disposal of the cleaning agents. Containers can be cleaned by rinsing with water and rinse water applied as a fertiliser. Disposal method dependent upon degree and nature of contaminated material. Disposal must be carried out in compliance with current environmental waste legislation. If in doubt seek professional advice or contact Local Statuary Authorities.

For the safety of persons conduction disposal, recycling or reclamation activities, refer to the information in section 8.

14. TRANSPORT INFORMATION

UN number	Not required under ADG Code		
Proper Shipping Name	NOT CONSIDERED DANGEROUS GOODS		
Transport Hazard Class	Not required under ADG Code	Subsidiary Risk	Not required under ADG Code
Packing Group	Not required under ADG Code		
Environmental hazards for transport purposes	Not a known marine pollutant according to IMDG Code. Not an Annexe I chemical according to MARPOL.		
Special precautions for user	Ensure containers are sealed and suitable for transport.		
Additional information	Transport to be conducted in accordance with chain of responsibility legislation, local regulations and workplace procedures.		
HAZCHEM	Not required according to ADG Code.		
IMDG	Not required according to IMDG Code.		



15. REGULATORY INFORMATION

Hazard Category	The product is Classified as a Non-Hazardous Chemical in accordance with Safe Work Australia - Hazardous Chemicals Information System (HCIS) Australia, Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.
Montreal Protocol	Not an ozone depleting substance.
The Stockholm Convention	Not a persistent organic pollutant.
The Rotterdam Convention	Not a banned pesticide or industrial chemical.
Basal Convention	Not a hazardous waste.
MARPOL	Not subject to Annexe III – not a harmful substance carried in packed form or a noxious liquid substance.
Safety, health and environmental regulations	SUSMP Classification - Not Classified as a Schedule Poison NICNAS - No data available

16. OTHER INFORMATION

This Safety Data Sheet conforms with the "PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS Code of Practice, DECEMBER 2011" by Safe Work Australia. To meet the GHS requirements under the WHS regulations in relation to the preparation of safety data sheets for hazardous chemicals.

SDS prepared 8th of February 2019 version number 1.

Legend of Abbreviations and Acronyms

ADG - Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road or Rail
AS/NZS - Australian Standards and New Zealand Standards
BCF - Bioconcentration Factor
CAS Number - Chemical Abstract Service Number
GHS - Globally Harmonised System
HCIS - Hazardous Chemicals Information System
IARC - International Agency for Research on Cancer
IERG - Initial Emergency Response Guide
IMDG - International Maritime Dangerous Goods
MARPOL - International Convention for the Prevention of Pollution from Ships
OECD - Organisation for Economic Co-operation and development (guidelines for testing of chemicals)
TWA - Time-weighted
SDS - Safety Data Sheet
STEL - Short Term Exposure Limit
STOT - Specific Target Organ Toxicity
SUSMP - Standards for the Uniform Scheduling of Medicines and Poisons
UN Number - United Nations Number
°C - Degrees Celsius
EC₅₀ - Half maximal effective concentration
LD₅₀ - Median lethal dose; is the median dosage per unit bodyweight required to kill half the members of a tested population after specified test duration
LD₁₀ - Lethal dose low, is the lowest dosage per unit of bodyweight known to have resulted in a fatality in a particular animal species
LC₅₀ - Median lethal concentration; is the median dosage per unit body weight required to kill half the members of a tested population after a specified test duration.
mg/kg - Milligrams per kilogram
mg/L - Milligrams per litre
mg/m³ - Milligrams per cubic metre
pH - Potential of hydrogen (numeric scale to specify the acidity or basicity of an aqueous solution)
w/w - Weight per weight
% - Percent or percentage
< - Less than
> - Greater than
@ - at

Emergency Contacts
24 hours

LawrieCo Technical Manager:
0408 268 058

Poisons Information Centre:
13 11 26 (Australia)

Disclaimer

The data provided is to best of LAWRIE CO's knowledge and is believed to be accurate and reliable as of the date of issue. However, no expressed or implied warranties are given. LAWRIE CO cannot anticipate or control the conditions under which this information may be used. Therefore, it is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their particular use. It is the responsibility of the user to ensure that the issue is current. This information given is a non-controlled document.

Related Product Codes

BIOLFK-1000
BIOLFK200
BIOLFK20

Safety Data Sheet Revision

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End of Safety Data Sheet