

1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL



BioMAX 100% Soluble Fulvic Powder

LawrieCo Pty Ltd

A.B.N. 72 134 390 855
47 Naweena Road, Regency Park
SOUTH AUSTRALIA, 5010

Tel: +61 8 8260 1134

Fax: +61 8 8260 2263

Web: www.lawrieco.com.au

Email: info@lawrieco.com.au

**Emergency Contacts
24 hours**

LawrieCo Technical Manager: 0408 268 058

Poisons Information Centre: 13 11 26 (Australia) 0800 764 766 (New Zealand)

CAS Number:

479-66-3

Product Code:

BIOSF25

Other Names: Fulvic acid. Fulvic acid, potassium salt.

Product Use: Recommended for use as a fertiliser and soil ameliorant only. See product label for specific application recommendations.

2. HAZARD IDENTIFICATION

Classified as a Non-Hazardous Substance

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

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, Prevention, Storage and Disposal**General**

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

Prevention

Avoid breathing dust. Wash hands and exposed skin thoroughly after handling. Wear impervious gloves, eye protection and dust mask.

Storage

Store in a cool location out of direct sunlight.

Disposal

Dispose of container to an approved waste disposal plant. Waste product can be added to soil or into compost/green waste for disposal.

Additional Non-GHS Hazard Statements

Other hazards Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product name	BioMAX 100% Soluble Fulvic Powder	SDS Code	8039
Product use	Recommended for use as a fertiliser		
Ingredients	Name	CAS Registry Number®	Proportion w/w
	<i>Durvillaea potatorum</i> brown algae	-	8.0%
	<i>Ascophyllum nodosum</i> brown algae		
	Water	7732-18-5	86.0 – 87.0%
	Potassium Carbonate	584-08-7	<5.0%
	Proprietary Ingredients	Mixture	<5.0%

4. FIRST AID MEASURES

- Inhalation** If inhaled (mists and sprays), remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist seek medical advice.
- Ingestion** If swallowed rinse mouth with water, give plenty of water to drink. Contact a doctor if any symptoms arise.
- Eyes** If in eyes, immediately hold eyelids apart and rinse for several minutes with running water. Remove contact lenses if present and easy to do so. If any irritation occurs get medical attention.
- Skin and hair** If skin or hair contact occurs, wash skin and hair with plenty of soap and running water. If skin irritation occurs get medical attention.
- First aid facilities** Eye wash, clean water supply, soap, or skin cleaner.
- Advice to doctor** Have a copy of this safety data sheet or label available. Treat symptomatically.
- Symptoms caused by exposure**
Ingestion may cause nausea, vomiting.
- Medical attention and special treatment**
Wash exposed skin and hair with water and soap. If swallowed rinse mouth, give plenty of water to drink. If in eyes flush continuously with running water for at least 15 minutes. Treat symptomatically.



5. FIRE FIGHTING MEASURES

- General measures**
Clear the fire area of all non-essential emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move the fire exposed containers from the area if it can be done without risk.
- Flammability conditions**
Product is a non-flammable liquid, and only combustible if dried to a solid.
- Suitable extinguishing equipment AS 2444:2001**
Appropriate extinguishing media includes water, water spray, foam, carbon dioxide, or dry powder. Use extinguishing media suitable for the surrounding fire and environment.
- Specific hazards arising from the chemical fire**
If dried product undergoes combustion, products will include carbon monoxide (CO), and carbon dioxide (CO₂), nitrogen oxides (NO_x), aerosols of carbon black 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 for firefighting if necessary, and protective equipment (includes firefighting helmet, coat, trousers, boots, and gloves).
No HAZCHEM Code assigned.



Further information

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. Contains spills immediately. Water based product that could cause short-circuits if it contacts electrical equipment. No emergency procedures required. For personal protection see section 8.



Environmental precautions

Prevent spills from entering storm water drains and waterways. Contain large spills with absorbent material or sand immediately.

Methods and materials for containment and cleaning up

Small spills can be mopped up. For large spills contain with absorbent material, dry sand, or earth. Sweep and shovel into suitably labelled, closed containers. Unless contaminated, product can be added to soil as a fertiliser, added to compost or green waste. Wash down hard surfaces with water as product residue may be slippery. For any queries consult Local Statuary Authorities.

7. HANDLING and STORAGE

Precautions for safe handling

This product is non-toxic. Contact with skin and eyes may cause irritation. Wear gloves and eye protection when handling. Wash hands and exposed skin immediately after use. Handle in accordance with good industrial hygiene and safety practices. For personal protection see section 8.



Conditions of safe storage and incompatibilities

Containers must be clearly labelled. Store away from strong oxidisers, and out of direct sunlight.

Specific end use

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure control measures

Exposure standards TWA (8 hour)	There are no assigned exposure standards for this product. TWA = No data available for this mixture.
Exposure standards STEL (15 min)	There are no assigned exposure standards for this product. STEL = No data available for this mixture.

Biological monitoring

No biological monitoring required.

Biological limited values – There are no known biological limited values that have been assigned.

Control banding

No data available

Engineering controls

Avoid creating mists or sprays. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.

Personal Protection

Inhalation/respiratory AS –NZS 1715/1716

For nuisance exposures use a class P1 or P2 particulate respirator. For higher level of protection use a class P3. Use respirators and components tested and approved under appropriate government standards.

Eye and face
AS –NZS 1336/1337

Safety glasses fitted with side shields are recommended to prevent eye contact. Do NOT wear contact lenses.

Gloves
AS –NZS 2161

Gloves are recommended, but exposed skin should be washed after use.

Footwear
AS –NZS 2210

Specific footwear is not a requirement, but closed footwear is recommended and shoes with a safety toecap if working with bulk handling equipment.

Clothing
AS –NZS 3765

No specific clothing required. If clothing is contaminated, wash before re-use.

Hearing
AS –NZS 1270

Hearing protection not required.

Thermal hazards
No data available

Other Requirements

The type of protective equipment must be selected according to the concentration and amount of the substance at the specific workplace. Avoid unnecessary contact with eyes, skin, and hair. After application, wash skin and hair thoroughly with soap and water. Handle in accordance with good industrial hygiene and safety practices.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Dark brown
Odour	Seaweed odour
Odour threshold	No data available
pH @ 20°C	9.0 – 9.5
Melting point/freezing point	No data available
Boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Specific Gravity @ 20.0°C	1.08 – 1.10
Solubility	Soluble/miscible in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Particle size	<50µm 100%

10. STABILITY AND REACTIVITY

Reactivity

Will react with strong oxidisers.

Chemical stability

Stable under normal conditions of use, temperature, and storage.

Possibility of hazardous reactions

Will not polymerise.

Conditions to avoid

Avoid extreme high temperatures.

Incompatible materials

Strong oxidising agents.

Hazardous decomposition products

Thermal decomposition may result in the release of irritation fumes, products will include carbon monoxide (CO), carbon dioxide (CO₂), and nitrogen oxides (NO_x). Some volatile organic compounds (VOC's) may occur. In the event of a fire see section 5.

11. TOXICOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical and toxicological properties of this mixture have not been thoroughly investigated.

Ingredient: BioMAX Piranha 12% Kelp (mixture)	Information Sources: -
Concentration	99.9% minimum
Acute toxicity	No data available
Acute oral toxicity	No data available
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Skin corrosion/irritation	No data available – exposure may cause irritation.
Serious eye damage/irritation	No data available – exposure may cause irritation.
Respiratory or skin sensitisation	No data available – repeated exposure may cause dermatitis.
Germ cell mutagenicity	No data available
Carcinogenicity	No ingredient identified as a probable, possible, or confirmed human carcinogen by IARC.
Reproductive Toxicity	No data available
Specific Target Organ Toxicity STOT - single exposure	No data available
Specific Target Organ Toxicity STOT - repeated exposure	No data available
Aspiration hazard	No data available
Possible routes of exposure	Ingestion. Inhalation of sprays or mists.
Early onset symptoms of exposure	Ingestion may cause gastric irritations and result in nausea, and vomiting.
Delayed health effect from exposure	No data available
Interactive effects	No data available
Mixtures of chemicals	No data available
Other information	No data available
GHS hazard classification	Non-hazardous
GHS hazard statement	Not applicable
Poison Standard (SUSMP)	Not applicable

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available.

Persistence and degradability

No data available. Expected to be degraded and broken down by soil microbes.

Bioaccumulative potential

No data available. Expected to break down in soil.

Mobility in soil

Soluble in water, no adverse effects expected in soil.

Other adverse effects

Release of large quantities into waterways should be avoided.

13. DISPOSAL CONSIDERATIONS

Spills

Prevent spills from entering drains, surface water and ground water. Recover spilled material mechanically – using absorbent material or sand, sweep up and shovel into containers, wear appropriate personal protective equipment. Disposal must be carried out in accordance with Local Statuary Authorities.

Disposal of material

Residue can be applied to soil or added green waste/compost. If contaminated and unusable as a fertiliser the material and the packaging disposal must be carried out in accordance with Local Statuary Authorities.

Disposal of packaging

Empty containers may be suitable for reuse or recycling after cleaning. 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 conducting disposal, recycling, or reclamation activities, refer to the information in section 8.

14. TRANSPORT INFORMATION

UN number

Not required under ADG Code.

Proper Shipping or Technical 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

No special precautions required when transporting this material.

Additional information

No additional information required by overseas regulatory agencies or regulations for the transport of goods by other modes.

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 Substance** 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 I - Prevention of pollution by oil and oily water.

Subject to Annexe III - Harmful Substances carried in Packaged Form.

Safety, health, and environmental regulations

SUSMP Classification (Aust) - Not a scheduled poison.

NICNAS - No data available.

Storage

This product should be stored away from strong oxidising agents, and out of direct sunlight.

16. OTHER INFORMATION

This Safety Data Sheet conforms with the "PREPARATION OF SAFETY DATA SHEETS FOR HAZARDOUS CHEMICALS Code of Practice, MAY 2018" by Safe Work Australia. To meet the GHS (Eighth revised edition, 2019) requirements under the WHS regulations in relation to the preparation of safety data sheets for hazardous chemicals.

SDS prepared by LawrieCo Technical Manager 21st June 2021 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 Registry Number® - Chemical Abstract Service Registry Number.
CAS RN® - Chemical Abstract Service Registry Number.
GHS - Globally Harmonised System.
HCIS - Hazardous Chemicals Information System.
HSDB - Hazardous Substances Data Bank.
ECHA-CLP - European Chemicals Agency - Classification Labelling Packaging.
NICNAS-IMAP - National Industrial Chemicals Notification and Assessment Scheme - Inventory Multi-tiered Assessment and Prioritisation.
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).
SIDS - Screening Information Data Sets.
TWA - Time-Weighted Average.
SDS - Safety Data Sheet.
STEL - Short Term Exposure Limit.
STOT - Specific Target Organ Toxicity.
SCL - Specific Concentration Limits.
SUSMP - Standards for the Uniform Scheduling of Medicines and Poisons.
S6 - Schedule 6 Poison.
UN Number - United Nations Number.
VOC's - Volatile Organic Compounds.
°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.
LD₁₀₀ - The lowest dose of a substance that under defined conditions is lethal for 100% exposed animals.
LD_{Lo} - 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.
g/mL - Grams per millilitre.
mg/m³ - Milligrams per cubic metre.
Kg/m³ - Kilograms 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.
mPa·s - Millipascal-second.
Pa·s - Pascal-second.

Emergency Contacts
24 hours

LawrieCo Technical Manager: 0408 268 058
Poisons Information Centre: 13 11 26 (Australia) 0800 764 766 (New Zealand)

Disclaimer

The data provided is to best of LAWRIECO's knowledge and is believed to be accurate and reliable as of the date of issue. However no expressed or implied warranties are given. LAWRIECO 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

BMPIR-12-KELP-L

Safety Data Sheet Revision

Issue Date: 21st June 2021
Version Number: 1 (original version)
Next Revision Due: June 2026

End of Safety Data Sheet