

## 1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product Name: **BioMAX Soluble Humate Granule**

### LawrieCo Pty Ltd

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Emergency Contact

Poisons Information Centre:  
13 11 26

LawrieCo Technical Manager:  
0408 268 058

CAS Number	68514-28-3	Product Number	8019
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**Product Usage:** As a fertiliser additive for increased fertiliser efficiency, plant growth stimulation and soil conditioning.

## 2. HAZARD IDENTIFICATION

Classified as a **Hazardous Substance** in accordance with Safe Work Australia - Hazardous Substances Information System (HSIS) Australia, Global Harmonised System (GHS) documents and in accordance with the Standard for the Uniform Scheduling of Medicines and Poison (SUSMP).

**Not classified as Dangerous Goods** in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

### GHS Classification

Signal Word - **WARNING**

#### Hazard Class

Skin Irritation

Eye Irritation

Specific target organ toxicity - single exposure

#### Hazard Category

2

2

3

#### Pictogram



Exclamation Mark

#### Hazard Statements

**H315**  
Causes skin  
irritation.

**H319**  
Causes serious  
eye irritation.

**H335**  
May cause  
respiratory  
irritation.

### Precautionary Statements

#### General

P102+P103 Keep out of reach of children. Read label before use.

#### Prevention

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTRE (telephone 13 11 26) or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P332 + P313	If skin irritation occurs: get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Disposal

P501	Dispose of contents/ container to an approved waste disposal plant.
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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Product name</b>	BioMAX Soluble Humate Prill	<b>SDS Code</b>	8019
<b>Product use</b>	As a fertiliser additive for increased fertiliser efficiency, plant growth stimulation and soil conditioning.		
<b>Ingredients</b>	<b>Name</b>	<b>CAS Number</b>	<b>Proportion w/w</b>
	Water	7732-18-5	max. 10.0%
	Humic Acid Potassium Salt	68514-28-3	70.0 – 85.0%
	Fulvic Acid Potassium Salt	479-66-3	8.0 – <10.0%

### 4. FIRST AID MEASURES

Description of necessary first aid measures

<b>Inhalation</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth out with water. Consult a doctor.
<b>Eyes</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.
<b>Skin and hair</b>	If skin or hair contact occurs, remove all contaminated clothing, wash skin and hair with soap and plenty of water.
<b>First aid facilities</b>	Clean water supply, soap or skin cleaner.
<b>Advice to doctor</b>	If poisoning occurs, consult with the Poisons Information Centre (Telephone <b>13 11 26</b> ). Have a copy of this safety data sheet or label available. Treat symptomatically.

Symptoms caused by exposure

Irritation of the skin, mucous membranes and eyes.

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.



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## 5. FIRE FIGHTING MEASURES

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<b>Suitable extinguishing equipment</b>	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
<b>Specific hazards arising from the chemical fire</b>	Nature of decomposition products not known.
<b>Special protective equipment and precautions for fire fighters</b>	Wear self contained breathing apparatus for fire fighting if necessary. No HAZCHEM Code assigned.
<b>Further information</b>	No data available



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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
<b>Environmental precautions</b>	Prevent from entering waterways, sewage and drains. For any queries consult Local Statuary Authorities.
<b>Methods and materials for containment and cleaning up</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.



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## 7. HANDLING and STORAGE

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<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. For personal protection see section 8. Avoid formation of dust and aerosols. Provide appropriate ventilation at places where dust is formed. Normal measures for preventative fire protection. After use and before eating, drinking or smoking, wash all exposed skin and hair with soap and water. Keep out of reach of children.
<b>Conditions of Safe Storage and Incompatibilities</b>	Containers must be clearly labelled. Store at room temperature. Keep container tightly closed in a dry well-ventilated place out of direct sunlight. Keep away from strong oxidising agents.
<b>Specific end uses</b>	Apart from uses mentioned in section 1. no other specific uses are stipulated.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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<b>Exposure standards OEL</b>	There are no assigned exposure standards for this product.
<b>Exposure standards STEL</b>	There are no assigned exposure standards for this product.
<b>Biological limited values</b>	There are no known Biological Limited Values that have been assigned.
<b>Engineering controls</b>	Avoid creating dust by keeping handling to a minimum. Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the work day.
 <b><u>Personal Protection</u></b>	
<b>Inhalation</b> AS –NZZ 1716	For nuisance exposures use a class P1 or P2 particle respirator. For higher level of protection use a class P3. Use respirators and components tested and approved under appropriate government standards.
<b>Eye</b> AS –NZZ 1337	Face shield or safety glasses fitted with side shields must be worn at all times during the handling and application period. Do NOT wear contact lenses. Use equipment tested and approved under appropriate government standards.
<b>Gloves</b> AS –NZZ 2161	Handle with gloves. Gloves must be inspected prior to use. It is advisable to wear viton or PVC elbow length gloves at all times during the handling and application period. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Wash and dry hands.
<b>Footwear</b> AS –NZZ 2210	It is advisable to wear enclosed footwear during the handling and application period.
<b>Clothing</b> AS –NZZ 2919	It is advisable to wear protective clothing during the handling and application period.
<b>Hearing</b> AS –NZZ 1270	Hearing protection not required.
<b>Other Requirements</b>	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Avoid unnecessary contact with eyes, skin and hair. After application, wash skin and hair thoroughly with soap and water.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b> (physical state, colour, etc)	Dark brown - black 3-4mm solid prills
<b>Odour</b>	Slight earthy odour
<b>Odour threshold</b>	No data available
<b>pH</b> (10g/L @ 20°C)	9.0 - 10.0
<b>Melting point</b>	No data available
<b>Freezing point</b>	No data available
<b>Boiling point and boiling range</b>	No data available
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability</b> (solid, gas)	No data available
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapour pressure</b>	No data available

<b>Vapour density</b>	No data available
<b>Bulk density</b>	0.85
<b>Solubility</b>	75% soluble in water
<b>Partition coefficient: n-octonal/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	>100 °C
<b>Viscosity</b>	No data available
<b>Specific heat value</b>	No data available
<b>Saturated vapour concentration</b>	No data available
<b>Release of invisible flammable vapours and gases</b>	No data available
<b>Particle size</b> (average and range)	2-5mm
<b>Size Distribution</b>	No data available
<b>Shape and aspect ratio</b>	No data available
<b>Crystallinity</b>	No data available
<b>Dustiness</b>	Some dust present
<b>Surface area</b>	No data available
<b>Degree of aggregation or agglomeration, and dispersibility</b>	No data available
<b>Redox Potential</b>	No data available
<b>Biodurability or biopersistence</b>	No data available
<b>Surface coating or chemistry</b>	No data available
<b>Volatile organic compounds % volatile</b>	No data available

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## 10. STABILITY AND REACTIVITY

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<b>Reactivity</b>	No data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Will not polymerise. Combustion in contact with strong oxidisers.
<b>Conditions to avoid</b>	No data available
<b>Incompatible materials</b>	Strong oxidising agents.
<b>Hazardous decomposition products</b>	No data available In the event of fire: see section 5.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Ingredient</b>	Humic Acid Potassium Salt (68514-28-3)
<b>Acute toxicity</b>	LD <sub>50</sub> - intraperitoneal rat 502mg/kg LD <sub>50</sub> - intraperitoneal mouse 1,176mg/kg
<b>Acute oral toxicity</b>	LD <sub>50</sub> - oral rat 10,480mg/kg
<b>Acute dermal toxicity</b>	No data available
<b>Acute inhalation toxicity</b>	No data available
<b>Specific Target Organ Toxicity STOT - single exposure</b>	Inhalation - May cause respiratory irritation. Hazard category 3

**Specific Target Organ** No data available  
**Toxicity STOT - repeated exposure**

**Other Health Effects**

**Inhalation** Irritant to mucous membranes.

**Ingestion** Irritant to mucous membranes.

**Eyes** Causes eye irritation.

**Skin** Causes skin irritation.

**Carcinogenicity** No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

**Mutagenicity** Not mutagenic in animal studies.

**Reproductive Toxicity** No data available

**Aspiration hazard** No data available

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

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## 12. ECOLOGICAL INFORMATION

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**Ectotoxicity** 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

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## 13. DISPOSAL CONSIDERATIONS

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**Spills**

Wash down area with water. Prevent spills from entering drains, surface water and ground water. Disposal must be carried out in accordance with Local Statuary Authorities.

**Material**

Handle and dispose of in compliance with current environmental waste legislation. If in doubt contact Local Statuary Authorities.

**Contaminated Material**

Empty containers may be suitable for reuse or recycling after cleaning and appropriate disposal of the cleaning agents. 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.

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## 14. TRANSPORT INFORMATION

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<b>UN number</b>	Not required under ADG Code	
<b>Proper Shipping Name</b>	NOT CONSIDERED DANGEROUS GOODS	
<b>Transport Hazard Class</b>	Not required under ADG Code	<b>Subsidiary Risk</b> Not required under ADG Code
<b>Packing Group</b>	Not required under ADG Code.	
<b>Environmental hazards for transport purposes</b>	Not a known marine pollutant according to IMDG Code. Not an Annexe I chemical according to MARPOL.	
<b>Special precautions for user</b>	No data available	
<b>Additional Information</b>	No additional information required by overseas regulatory agencies or regulations for the transport of goods by other modes.	
<b>HAZCHEM</b>	Not required according to ADG Code.	
<b>IMDG</b>	Not required according to IMDG Code.	



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## 15. REGULATORY INFORMATION

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<b>Hazard Category</b>	The product is classified as a <b>Hazardous Substance</b> in accordance with Safe Work Australia in accordance with Hazardous Substances Information System (HSIS) Australia and Global Harmonised System (GHS)	
<b>Montreal Protocol</b>	Not an ozone depleting substance.	
<b>The Stockholm Convention</b>	Not a persistent organic pollutant.	
<b>The Rotterdam Convention</b>	Not a banned pesticide or industrial chemical.	
<b>Basal Convention</b>	Not a hazardous waste.	
<b>MARPOL</b>	Subject to Annexe III - Harmful Substances carried in Packaged Form.	
<b>Safety, health and environmental regulations</b>	<b>SUSMP Classification</b>	Not Classified as a Schedule Poison.

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## 16. OTHER INFORMATION

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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 January, 2014 version number 1.

### Legend of Abbreviations and Acronyms

HSIS - Hazardous Substances Information System  
GHS - Globally Harmonised System  
ADG - Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road or Rail  
IERG - Initial Emergency Response Guide  
SDS - Safety Data Sheet  
CAS Number - Chemical Abstract Service Number  
w/w - Weight per weight  
AS/NZS - Australian Standards and New Zealand Standards  
OEL - Occupational Exposure Limit  
STEL - Short Term Exposure Limit  
pH - Potential of hydrogen  
°C - Degrees celcius  
STOT - Specific Target Organ Toxicity  
BCF - Bioconcentration Factor  
MARPOL - International Convention for the Prevention of Pollution from Ships  
IMDG - International Maritime Dangerous Goods  
UN Number - United Nations Number  
SUSMP - Standards for the Uniform Scheduling of Medicines and Poisons  
LD50 - Median lethal dose required to kill half the members of a tested population after a specified test duration  
mg/kg - Milligrams per kilogram  
IARC- International Agency for Research on Cancer

**Emergency Contact**

**Poisons Information Centre:**  
13 11 26

**LawrieCo Technical Manager:**  
0408 268 058

### **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.*

**End of Safety Data Sheet**