

1. PRODUCT IDENTIFIER & IDENTITY FOR THE CHEMICAL

Product Name: **BioMAX Animal Humic Fulvic Powder**

LawrieCo Pty Ltd

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Emergency Contact
24 hours

LawrieCo Technical Manager:
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Poisons Information Centre:
13 11 26 (Australia)

CAS Number	68131-04-4	Product Number	SODHUM25
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Other Names: Sodium Humate; Humic Acid, Sodium Salt.

Product Use: As an additive with dairy, beef cattle, pig, poultry, sheep, horse, and fish feed, supplements or water.

2. HAZARD IDENTIFICATION

Classified as a 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 Classification

Skin Corrosion/Irritation - Category 3

Serious Eye Damage/Irritation - Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3

Signal Word **Warning**

Hazard Statements

 Exclamation Mark	H316 Causes mild skin irritation	H319 Causes serious eye irritation	H335 May Cause respiratory irritation
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Precautionary Statements - Prevention, Response, Storage and Disposal

Prevention

P261	Avoid breathing dust.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, eye protection and 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 if you feel unwell.
P321	Specific treatment, see supplemental first aid instructions on this label.
P332 + P313	If skin irritation occurs: get medical advice.
P337 + P313	If eye irritation persists: Get medical attention.
P362	Take off contaminated clothing and wash before reuse.
Storage	
P405	Store locked up.
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 Animal Humic Fulvic Powder	SDS Code	8059
Product use	As an additive with dairy, beef cattle, pig, poultry, sheep, horse, and fish feed, supplements or water.		
Ingredients	Name	CAS Number	Proportion w/w
	Water	7732-18-5	Max. – 10.0%
	Humic Acid, Sodium Salt	68131-04-4	70.0 – <90.0%

4. FIRST AID MEASURES

Description of necessary first aid measures

Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth out with water. Consult a doctor.
Eyes	Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.
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

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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing equipment	Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.
Specific hazards arising from the chemical fire	Nature of decomposition products not known.



Special protective equipment and precautions for fire fighters Wear self contained breathing apparatus for fire fighting if necessary. No HAZCHEM Code assigned.

Further information No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures 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.

Environmental precautions Prevent from entering waterways, sewage and drains. For any queries consult Local Statuary Authorities.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.



7. HANDLING and STORAGE

Precautions for safe handling Keep out of reach of children. Avoid contact with skin and eyes. 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.

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. Keep 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 OEL There are no assigned exposure standards for this product.

Exposure standards STEL 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 Avoid creating dust. 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 AS –NZS 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.



Eye AS –NZS 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.
Gloves AS –NZS 2161	It is advisable to wear Viton or PVC elbow length gloves at all times during the handling and application period.
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.
Hearing AS –NZS 1270	Not required since the product is not applied by conventional air spray.
Other Requirements	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown - black crystalline powder
Odour	Slight earthy odour
Odour threshold	No data available
pH (10g/L @ 20°C)	10.0 - 11.0
Freezing point	Not applicable
Boiling point and boiling range	Not applicable
Melting point	>300°C
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	0.82
Solubility	99.5% soluble in water
Partition coefficient: n-octanol/water	No data available
Decomposition temperature	>100°C
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

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.

Possibility of hazardous reactions	Will not polymerise. Combustion in contact with strong oxidisers.
Conditions to avoid	No data available
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	No data available In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

Ingredient: Humic Acid, Sodium Salt (68131-04-4)	Information Sources: Sigma-Aldrich
Concentration	>70% by weight.
Acute toxicity	LD50 Intraperitoneal – rat – 502 mg/kg LD50 Intraperitoneal – mouse – 1,176 mg/kg
Acute oral toxicity	LD50 Oral – rat – female - >2,000 mg/kg Directive 67/548/EEC, Annex V,B.1.
Acute dermal toxicity	LD50 Dermal – rat – male and female - >2,000 mg/kg Directive 67/548/EEC, Annex V,B.3.
Acute inhalation toxicity	No data available
Specific Target Organ Toxicity STOT - repeated exposure	No data available
Specific Target Organ Toxicity STOT - single exposure	May cause respiratory irritation.
Skin corrosion/irritation	Causes mild skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause respiratory irritation / Not a skin sensitiser.
Germ cell mutagenicity	OECD Test Guideline 474 No data available
Carcinogenicity	Not identified as a probable, possible or confirmed human carcinogen by IARC. OECD Test Guideline 451 - no data available
Reproductive Toxicity	No data available
Aspiration hazard	No data available
Possible routes of exposure	Inhalation, eye contact and ingestion.
Signs and Symptoms of exposure	Irritation of the mucous membranes, respiratory system, and eyes.
Other information	Ingestion may cause diarrhea and vomiting.
To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.	

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

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 24th January, 2018 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
HSIS - Hazardous Substances 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)
OEL - Occupational Exposure Limit
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
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
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

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Disclaimer

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Related Product Codes

None

Safety Data Sheet Revision

Issue Date: 24th January, 2018
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Next Revision Due: January, 2023

End of Safety Data Sheet