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SAFETY DATA SHEET

Section 1 : IDENTIFICATION

Product identifier	CHARGE
Other means of identification	Water solution of liquid plant food ingredients.
Recommended use and restrictions on use	Foliar spray liquid plant food.
Details of manufacturer	Growth Agriculture Pty Ltd. PO Box 444, Wee Waa, NSW 2388, Australia. Freecall 1800 440 438 Phone (02) 6795 3787 Fax (02) 6795 3707
Emergency phone number	(Australia) 1800 440 438 or Poisons Information Centre (Australia) 13 11 26 Poisons Information Centre (NZ) 0800 764 766

Section 2 : HAZARDS IDENTIFICATION

Classification of the hazardous chemical	Not a Dangerous Good according to the Australian Dangerous Goods [ADG] Code 7 th edition. Classified as hazardous according to the criteria of SWA. Not classified as hazardous by GHS.
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Label elements, including precautionary statements



EYE IRRITATION - Hazard category: 2A

Signal word: Warning.

Hazard statement: H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS:

P264 Wash affected body parts thoroughly after handling.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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P337+P313 If eye irritation persists: Get medical advice/attention.



SKIN IRRITATION - Hazard category: 2

Signal word: Warning.

Hazard statement: H315 Causes skin irritation.

PRECAUTIONARY STATEMENTS:

P264 Wash affected body parts thoroughly after handling.

P280 Wear eye protection / face protection.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P321 Specific treatment – if skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.



ACUTE TOXICITY – ORAL - Hazard category: 4

Signal word: Warning.

Hazard statement: H302 Harmful if swallowed

PRECAUTIONARY STATEMENTS:

P264 Wash affected body parts thoroughly after handling.

P270 do not eat, drink, or smoke when using this product.


P301+P312 IF SWALLOWED: call a poison centre or doctor/physician if you feel unwell.

P330 Rinse mouth

P501 Dispose of contents/container in accordance with local regulations.

Other hazards which do not result in classification

None stated

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Section 3 : COMPOSITION AND INFORMATION ON INGREDIENTS

Identity of chemical ingredients	<p>Contains humic acid.</p> <p>Contains urea.</p> <p>Contains ammonium polyphosphate.</p> <p>Contains water.</p> <p>Also contains other non-hazardous ingredients.</p>
CAS Number and other unique identifiers	<p>57-13-6 <i>Urea</i>.</p> <p>68333-79-9 <i>Ammonium polyphosphate</i></p> <p>7732-18-5 <i>Water</i>.</p> <p>No CAS no. for <i>humic acid</i></p>
Concentration of ingredients	<p>Concentration of ingredients not set</p> <p>Water to 100%.</p>

Section 4 : FIRST AID MEASURES

Description of necessary first aid measures	<p>If product is swallowed or gets in mouth, do not induce vomiting. wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor. For advice, contact a Poisons Information Centre (phone Australia 13 11 26) or a doctor at once.</p> <p>Quickly and gently blot or brush away product. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until a few minutes after irritation has ceased, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.</p> <p>Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts). Completely decontaminate clothing, shoes and leather goods before reuse or discard. If irritation persists, repeat flushing and obtain medical advice.</p>
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Symptoms caused by exposure

Eyes: This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

Skin: This product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

Ingestion: This product, while believed to be not harmful, is likely to cause headache and gastric disturbance such as nausea and vomiting if ingested in significant quantities. This product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Medical attention and special treatment

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The contact numbers are in Section 1 in this SDS. Have this SDS with you when you call.

Section 5 : FIRE FIGHTING MEASURES

Suitable extinguishing media

Not combustible. Use extinguishing media suited to burning materials.

Specific hazards arising from the chemical


There is no risk of explosion from this product under normal circumstances if it is involved in a fire.

This product is likely to decompose only after heating to dryness, followed by further strong heating. Decomposition products are likely to be carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Also formed are likely to be nitrogen compounds including oxides of nitrogen. Under some circumstances hydrogen cyanide gas may be formed along with oxides of phosphorus and other phosphorus compounds.

Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death from these substances is from respiratory arrest. Hydrogen cyanide gas acts very rapidly, symptoms and death can both occur quickly.

Special protective equipment

No specific protective equipment required.

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and precautions for fire fighters HAZCHEM code: Not applicable

Section 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	<p>Wear full protective clothing including eye/face protection. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective goggles.</p> <p>Eyebaths or eyewash stations and safety deluge showers should be provided near to where product is being used.</p>
Environmental precautions	<p>In the event of a major spill, prevent spillage from entering drains or water-courses. After spills, wash area, preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services.</p>
Methods and materials for containment and cleaning up	<p>Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning.</p>

***NOTE :** Please read the product label for additional information. Instructions on the label must take precedence over this SDS.*

Section 7 : HANDLING & STORAGE

Precautions for safe handling	<p>Keep exposure to this product to a minimum, and minimise the quantities kept in work areas.</p> <p>Carefully read other sections of this SDS for details on personal protective measures, and make sure that those measures are followed. Also check the measures for storage.</p>
Conditions for safe storage, including any incompatibilities	<p>Store packages of this product in a cool, dry and well-ventilated place out of direct sunlight. Store the product in the original package. Do not store material that has been mixed with water.</p> <p>This product has no particular storage incompatibilities.</p>

***NOTE :** Please read the product label for additional information. Instructions on the label must take precedence over this SDS.*



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Section 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters – exposure standards, biological monitoring	No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised. Exposure limits have not been set by SWA for any of the significant ingredients in this product.
Appropriate engineering controls	Use in a cool, well-ventilated space. Have spillage kits available on site.
Personal protective equipment (PPE)	No special equipment is normally needed for the routine handling of this product. However good practice suggests that you should have eye protection available in the form of safety glasses, goggles or a face mask, as this product contains substances known to cause eye irritation. The use of gloves is optional as no special risk is evident. If substantial skin contact occurs, wash with clean water.

Section 9 : PHYSICAL & CHEMICAL PROPERTIES

Appearance	Dark brown liquid.
Odour	Earthy odour.
Odour threshold	No data available.
pH	No data available.
Melting point/Freezing point	Approximately 0 °C.
Boiling point and boiling range	Approximately 100 °C. (100 kPa).
Flash point	Not flammable, not combustible.
Evaporation rate	No data available.
Flammability	Not flammable.
Upper & lower flammability limits	Not flammable.
Vapour pressure	2.37 kPa at 20°C.
Vapour density	No data available.
Relative density	1.42.
Solubility	Completely soluble in water



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Partition coefficient (n.octanol:water) This product is an aqueous solution / suspension, so this is not relevant.

Auto-ignition temperature Will not auto-ignite.

Decomposition temperature No data available.

Viscosity As for water.

Specific heat value As for water.

Particle size This product is an aqueous solution / suspension.

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, but none likely.

ADDITIONAL PARAMETERS

Shape and aspect ratio Not applicable.

Crystallinity Not applicable.

Dustiness Not applicable.


Surface area Not applicable.

Surface area Not applicable.

Degree of aggregation or agglomeration Not applicable.

Ionisation (redox potential) No data available.

Biodurability or biopersistence No data available.


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Section 10 : STABILITY & REACTIVITY

Reactivity	<p>This product is unlikely to react under normal storage conditions. However, if you have any doubts, contact the supplier for shelf life properties.</p> <p>This product will not undergo polymerisation reactions.</p>
Chemical stability	<p>This product is unlikely to decompose under normal storage conditions. However, if you have any doubts, contact the supplier for shelf life properties.</p>
Conditions to avoid	<p>Protect this product from light. Store in closed original container, in a dry, cool, well ventilated area out of direct sunlight.</p>
Incompatible materials and possible hazardous reactions	<p>This product has no particular incompatibilities.</p>
Hazardous decomposition products	<p>This product is likely to decompose only after heating to dryness, followed by further strong heating. Decomposition products are likely to be carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Also formed are likely to be nitrogen compounds including oxides of nitrogen. Under some circumstances hydrogen cyanide gas may be formed along with oxides of phosphorus and other phosphorus compounds.</p> <p>Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death from these substances is from respiratory arrest. Hydrogen cyanide gas acts very rapidly, symptoms and death can both occur quickly.</p>

Section 11 : TOXICOLOGICAL INFORMATION

Information on routes of exposure	Eye, skin and mucous membranes.
Symptoms related to exposure	Known to cause eye irritation.
Numerical measures of toxicity	None known

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Immediate, delayed and chronic health effects from exposure

This product is a known skin irritant and may cause itchiness and reddening of contacted skin. Other symptoms may occur but all should disappear once contact has ceased.

This product is an eye irritant, causing stinging and reddening of eyes and watering which may become copious. Other symptoms may occur. If exposure is brief, symptoms should disappear once exposure has ceased. However, if exposure is prolonged, or if treatment is delayed, permanent eye damage may occur.

This product is likely to cause headache and nausea/vomiting if ingested in significant quantities. This product may also be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

No data available for health effects associated with long-term exposure.

Exposure levels

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

Data limitations

No data available.

Section 12 : ECOLOGICAL INFORMATION

Ecotoxicity

This product is unlikely to adversely affect the environment.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No specific data but being an aqueous solution, this product is likely to be mobile.

Other adverse effects

No data available.



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Section 13 : DISPOSAL CONSIDERATIONS

Safe handling and disposal methods

This product should be suitable for landfill. However, check with local Waste Disposal Authority before sending there. Note that product properties may have been changed in use; significantly altering its suitability for landfill. Always check local regulations. Do not dispose into sewers or waterways.

Disposal of any contaminated packaging

Containers should be emptied as completely as practical before disposal. If possible, recycle containers either in-house or send to recycle company. If this is not practical, send to a commercial waste disposal site.

Environmental regulations

Do not dispose into sewers or waterways.

***NOTE :** Please read the product label for additional information. Instructions on the label must take precedence over this SDS.*

Section 14 : TRANSPORT INFORMATION

UN Number

No UN number allocated.

Proper shipping name

Not specified in the Australian Dangerous Goods Code 7th edition.

Transport hazard class

No data provided in the Australian Dangerous Goods Code 7th edition.

Packaging group

No data provided in the Australian Dangerous Goods Code 7th edition.

Environmental hazards


No data is available from literature.

Special precautions during transport

This product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.

Hazchem code

No data provided in the Australian Dangerous Goods Code 7th edition.

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Section 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product See precautionary statements in section 2.

Poisons schedule number Not a scheduled poison.

Section 16 : OTHER INFORMATION

Date of preparation or review January 2015

Key abbreviations or acronyms used Where relevant, full wording followed by [square bracketing] abbreviations are provided in this SDS.

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