



## Section 1 - Identification of Chemical Product and Company

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Trade Name: Amgrow Organix 4Vital  
Product Use: Liquid Micronised minerals for gardens  
Creation Date: December 2001  
Revision Date: June 2008

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as NOT hazardous according to the criteria of ASCC Australia.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: N/A

Safety Phrases: N/A

SUSDP Classification: Not scheduled

ADG Classification: N/A

UN Number: None allocated

### Emergency Overview

Physical Description & colour: Light brown viscous liquid

Odour: Slight citronella odour

Major Health Hazards: This product is virtually non-toxic by normal routes of exposure. There is no data to suggest that chronic exposure has any adverse health effects in the way of carcinogenicity, mutagenicity or reproductive effects. However, as with many products of organic origin, it is possible that this product may contain pathogenic micro-organisms

### Potential Health Effects

Inhalation: May cause irritation to respiratory tract.

Skin Contact: Data suggests that this product should present no significant problems to typical persons if used as intended. Repeated or prolonged exposure may have a drying effect on skin. May cause mild irritation in some individuals.

Eye Contact: May cause irritation

Ingestion: Data suggests that this product should present no significant problems to typical persons if used as intended. However, ingestion of large quantities may result in internal obstruction/constipation or discomfort.

### Carcinogen Status:

ASCC: No significant ingredient is classified as carcinogenic by ASCC.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

## Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%	TWA (mg/m3)	STEL (mg/m3)
Micronised Guano	-		not set	not set
Magnesium Carbonate	7757-69-9		not set	not set
Soluble Boron	7440-42-8		not set	not set
Fulvic Acid	479-66-3		not set	not set
Biological metabolites				

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### MATERIAL SAFETY DATA SHEET

The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

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## Section 4 - First Aid Measures

**General Information:** You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this MSDS with you when you call. Eyebaths or eyewash stations and safety deluge showers should be provided where this product is being used.

**Inhalation:** No first aid measures normally required. However, if vapours or mists have been inhaled, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

**Skin Contact:** If product gets on skin, wash skin with soap and water. No further measures should normally be required.

**Eye Contact:** Flush the contaminated eye(s) with lukewarm, gently flowing water until the product is removed or until irritation has ceased, while holding the eyelid(s) open. Obtain medical advice if irritation becomes painful or lasts more than a few minutes.

**Ingestion:** If swallowed, do NOT induce vomiting. Rinse mouth. Drink copious amounts of water. Seek medical advice.

**Advice to Doctor:** Treat symptomatically. Note the nature of this product.

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## Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards:** There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. However, this product may form flammable or explosive dust clouds in air. No hazardous decomposition products are expected at temperatures normally achieved in a fire

**Extinguishing Media:** Not Combustible. Use extinguishing media suited to burning materials.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade.

**Flash point:** Does not burn.

**Upper Flammability Limit:** Does not burn.

**Lower Flammability Limit:** Does not burn.

**Auto ignition temperature:** Not applicable - does not burn.

**Flammability Class:** Does not burn.

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## Section 6 - Accidental Release Measures

**Accidental release:** Minor spills do not normally need any special cleanup measures. In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear goggles and gloves. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible after cleaning. After spills, wash area, preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This product is biodegradable and may be suitable for approved landfill. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations.

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## Section 7 - Handling and Storage

**Handling:** Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10. Check packaging - there may be further storage instructions on the label.

## Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Industrial Clothing: **AS2919**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

**Exposure Limits**                      **TWA (mg/m<sup>3</sup>)**   **STEL (mg/m<sup>3</sup>)**   **ADI (mg/Kg/day)**   **NOEL (mg/Kg/day)**  
**No exposure limits have been set for any of the ingredients of this product**

*The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A TWA has not been established by Worksafe Australia for any of the major ingredients in this product. There is a blanket limit of 10mg/m<sup>3</sup> for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. Values taken from Australian ADI List, Dec 2003.*

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

**Eye Protection:** It is advisable to wear protective eyewear when using this product as mists may be irritating.

**Skin Protection:** This product is essentially safe to use without special protective clothing, but it is always prudent to wear gloves when handling fertilisers

**Respirator:** It is advisable to wear a dust mask or respirator protection when using this product.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

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## Section 9 - Physical and Chemical Properties:

<b>Physical Description &amp; colour:</b>	Light Brown viscous liquid
<b>Odour:</b>	Mild citronella odour
<b>Boiling Point:</b>	No data
<b>Melting Point:</b>	No specific data, liquid at room temperatures
<b>Flash Point:</b>	Not flammable
<b>Volatiles:</b>	No specific data. Expected to be low at 100°C.
<b>Bulk Density:</b>	No data
<b>Water Solubility:</b>	Fully miscible
<b>pH:</b>	No data
<b>Odour Threshold:</b>	No data.
<b>Auto ignition temp:</b>	Not applicable - does not burn.

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## Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions.

**Conditions to Avoid:** Heat, flames, and incompatibles

**Incompatibilities:** Strong acids, phosphate based products

**Fire Decomposition:** No hazardous fire decomposition products

**Polymerisation:** This product is unlikely to undergo polymerisation processes.

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## Section 11 - Toxicological Information

<b>Eye Effects:</b>	May be Irritating	<b>Skin Effects:</b>	May be irritating, drying
<b>Dermal LD<sub>50</sub>:</b>	No data	<b>Oral LD<sub>50</sub></b>	No data
<b>Inhalation LC<sub>50</sub></b>	No data.	<b>Positive Teratogen or Mutagen:</b>	No

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## Section 12 - Ecological Information

All natural materials, biodegradable

## Section 13 - Disposal Considerations

**Disposal:** Normally suitable for disposal at approved land waste site. Instructions for the disposal of containers are found on the product label.

## Section 14 - Transport Information

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

## Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are to be found in the public AICS Database.

## Section 16 - Other Information

**This MSDS contains only safety-related information. For other data see product literature.**

### Acronyms:

<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>ASCC</b>	National Occupational Health and Safety Commission
<b>CAS number</b>	Chemical Abstracts Service Registry Number
<b>Hazchem Number</b>	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters
<b>IARC</b>	International Agency for Research on Cancer
<b>NOS</b>	Not otherwise specified
<b>NTP</b>	National Toxicology Program (USA)
<b>R-Phrase</b>	Risk Phrase
<b>SUSDP</b>	Standard for the Uniform Scheduling of Drugs & Poisons
<b>UN Number</b>	United Nations Number

*THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.*

*IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.*

Please read all labels carefully before using product.

This MSDS is prepared in accord with the ASCC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [ASCC:2011(2003)]

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