Section 1 - Identification of Chemical Product and Company

Amgrow Pty Ltd
PO Box 6390
Silverwater NSW 1811

Phone: (02) 9395 1200 (Business hours)
Fax: (02) 9395 1241

Substance: Wetting Agent.
Trade Name: Amgrow Wettasoil Granular with Seaweed
Product Use: A surfactant for soil wetting
Creation Date: December 2006

Section 2 - Hazards Identification

Statement of Hazardous Nature
Not classified as hazardous according to the criteria of ASCC Australia.
Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: Not Hazardous - No criteria found.
Safety Phrases: Not Hazardous - No criteria found.
SUSDP Classification: None allocated.
ADG Classification: None allocated. Not a Dangerous Good.
UN Number: None allocated

Emergency Overview
Physical Description & colour: Pale brown & cream to yellow granular solid
Odour: Mild seaweed odour

Major Health Hazards: No significant risk factors have been found for this product.

Potential Health Effects

Inhalation
Short term exposure: Not expected to be an inhalation hazard at ambient temperatures. Long Term exposure: No data for health effects associated with long term inhalation.

Skin Contact:
Short term exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be mildly irritating, but is unlikely to cause anything more than mild discomfort which should disappear once contact ceases. Long Term exposure: Prolonged or repeated skin contact may result in slight irritation

Eye Contact:
Short term exposure: Exposure via eyes is considered to be unlikely; however eye contact may result in slight irritation. Long Term exposure: No data for health effects associated with long term eye exposure.

Ingestion:
Short term exposure: Significant oral exposure is considered to be unlikely. Ingestion may result in gastric disturbances. Long Term exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:
NOHSC: 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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Conc,%</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene oxide-ethylene oxide block</td>
<td>9003-11-6</td>
<td>15</td>
<td>not set</td>
<td>not set</td>
</tr>
<tr>
<td>Polymer enriched with seaweed (Durvillea potatorum)</td>
<td>61790-53-2</td>
<td>to 100</td>
<td>not set</td>
<td>not set</td>
</tr>
</tbody>
</table>

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.
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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Issued by: Amgrow Pty Ltd
Phone (02) 9395 1200
Section 4 - First Aid Measures

General Information:
Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Skin Contact: Remove contaminated clothing and wash thoroughly with soap and water
Eye Contact: Flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes 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: Rinse mouth and then drink plenty of water
Although this product is not a poison, 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.

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.
Harmful vapours can be released if material involved 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.
Autoignition temperature: Not applicable - does not burn.
Flammability Class: Does not burn.

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 overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8).
Stop leak if safe to do so, and contain spill. Stop material going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

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. Avoid aerosol formation. 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:


**Exposure Limits**

<table>
<thead>
<tr>
<th>Exposure Limits</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
</tr>
</thead>
</table>

Exposure limits have not been established by ASCC for any of the significant ingredients in this product. 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:** Eye protection such as protective glasses or goggles is recommended when this product is being used.

**Skin Protection:** Impermeable protective gloves should be worn when handling this product. This product is normally safe to use without protective clothing, however its use is recommended as good industrial practice.

**Protective Material Types:** Suggested – rubber or PVC gloves

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.

**Section 9 - Physical and Chemical Properties:**

| Physical Description & colour: | Pale brown & cream to yellow granular solid |
| Odour: | Mild seaweed odour |
| Boiling Point: | n/a |
| Vapour Pressure: | n/a |
| Vapour Density: | No data. |
| Bulk Density | Approx 0.4 |
| Water Solubility: | Insoluble |
| pH: | Approx 7.0 |
| Volatility: | No data. |
| Odour Threshold: | No data. |
| Evaporation Rate: | No data. |
| Coeff Oil/water distribution: | No data |
| Auto ignition temp: | Not applicable |

**Section 10 - Stability and Reactivity**

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

**Conditions to Avoid:** Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** No particular Incompatibilities.

**Fire Decomposition:** Only small quantities of decomposition products are expected from this product at temperatures normally achieved in a fire.

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

**Section 11 - Toxicological Information**

No significant health hazards exist for this product.

**Oral:** LD₅₀ rat (oral): > 2000mg/Kg  
**Irritation:** skin: Draize test – non irritant. Mucous membrane – Draize test – Non irritant

**Section 12 - Ecological Information**

**Effects on Aquatic Organisms:**

Fish: LC₅₀, 96h, > 10,000mg/L (Leuciscus idus)  
Aquatic invertebrates: EC₅₀, 48h, > 100mg/L
Aquatic Plants: EC_{10}, 72h, >100mg/L
Micro-organisms: Inhibition of degradation activity in activated sludge is not to be anticipated during correct usage
Persistence and degradability: Readily biodegradable, >60% CO₂ formation relative to the theoretical value.

Section 13 - Disposal Considerations

Disposal: Instructions for the disposal of containers is 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:
ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS: Australian Inventory of Chemical Substances
ASCC: Australian Safety & Compensation Council
CAS number: Chemical Abstracts Service Registry Number
Hazchem Number: Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC: International Agency for Research on Cancer
NOS: Not otherwise specified
NOHSC: National Occupational Health and Safety Commission
NTP: National Toxicology Program (USA)
R-Phrase: Risk Phrase
SUSDP: Standard for the Uniform Scheduling of Drugs & Poisons
UN Number: 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 NOHSC document “National Code of Practice for the Preparation of Material Safety Data Sheets” 2nd Edition [NOHSC:2011(2003)]
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MATERIAL SAFETY DATA SHEET

Issued by: Amgrow Pty Ltd
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