

Amgrow Water Crystals

Section 1 - Identification of Chemical Product and Company

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Substance: Super absorbent polyacrylamide
Trade Name: Amgrow Water Crystals
Product Use: Water saving crystals to retain water in Soils Potting Mixes and Substrates
Creation Date: August 2010

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: 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: White Granular solid

Odour: None

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

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %	TWA (mg/m ³)	STEL (mg/m ³)
Super absorbent polyacrylamide		100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

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.

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.

Inhalation: No hazards which require special first aid measures

Skin Contact: No hazards which require special first aid measures

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: This product is not considered toxic. First aid is not generally required.

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.

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

Special Fire Fighting Precautions: This product when wet renders surfaces extremely slippery. The product swells in water

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. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. 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. Clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, 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.

Section 7 - Handling and Storage

Handling: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands after use.

Storage: Store in the closed original container in a dry, cool, (0-35°C) well-ventilated area out of direct sunlight.

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 ³)	STEL (mg/m ³)
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Exposure limits have not been established by NOHSC 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. Use local exhaust if dusting occurs.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used. Do not wear contact lenses

Skin Protection: The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves when skin contact is likely.

Protective Material Types: There is no specific recommendation for any particular protective material type.

Respirator: Usually, no respirator is necessary when using this product. However, dust safety masks are recommended where concentration of total dust is more than 10mg/m³

MATERIAL SAFETY DATA SHEET

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	White Granular solid
Odour:	None
Melting Point:	Not applicable
Flash Point:	Not Applicable
Vapour Pressure:	Not Applicable
Vapour Density:	No data.
Water Solubility:	Insoluble
pH:	Neutral
Volatility:	No data.
Auto-ignition temp:	Not applicable - does not burn.

Section 10 - Stability and Reactivity

Stability: This product is stable, no hazardous polymerisation will occur

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

Materials to Avoid: The product swells in water

Fire Decomposition: Thermal decomposition may produce: hydrogen cyanide (hydrocyanic acid), nitrogen oxides, carbon oxides.

Section 11 - Toxicological Information

Acute Toxicity:

Oral:	Not toxic: LD50/oral/rat > 5000mg/kg
Dermal:	Not toxic: LD50/dermal/rabbit > 200mg/kg

Irritation:

Skin:	Not Irritating
Eyes:	Moderate eye irritation due to effects all powders have on conjunctivae

Sensitisation: Not sensitising

Section 12 - Ecological Information

Effects on Aquatic Organisms:

Fish	Aquatic Toxicity is unlikely due to low solubility
Daphnids	Aquatic Toxicity is unlikely due to low solubility
Algae	Aquatic Toxicity is unlikely due to low solubility
Hydrolysis	Does not hydrolyse
Biodegradation	Not readily biodegradable
LogP_{ow}	0
Bioaccumulation	Does not bioaccumulate

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

This product is not a hazardous article and need not be labelled according to EC directives

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
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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