

## Section 1 - Identification of the Material and Supplier

**Chemical nature:** Fertiliser/water retainer  
**Trade Name:** Smart Start  
**Product Use:** Fertiliser with added water retainer  
**Supplier:** Amgrow Australia Pty Ltd  
 3/29 Birnie Ave  
 Lidcombe NSW 2141  
 Phone: 02 9395 1200 (office hours), Fax: 02 4729 3037  
 www.amgrow.com.au

**This version issued:** November 2021 and is valid for 5 years from this date.

**Poisons Information Centre:** Phone 13 1126 from anywhere in Australia

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

**THIS PRODUCT IS CLASSIFIED AS: NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF SWA.**

**NOT A DANGEROUS GOOD ACCORDING TO AUSTRALIAN DANGEROUS GOODS (ADG) CODE, IATA OR IMDG/IMSBC CRITERIA.**

**Hazard Statement:** Not Hazardous - No criteria found.

**Precautionary Phrases:** P260,P289, P262, 284. Do not breathe dust. Avoid contact with eyes. Wear suitable gloves. In case of insufficient ventilation, wear suitable respiratory equipment.

**SUSMP Classification:** None allocated.

**ADG Classification:** None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

**UN Number:** None allocated

**GHS Signal word: NONE. Not hazardous.**

### PREVENTION

P102: Keep out of reach of children.

P261: Avoid breathing dusts.

P262: Do not get in eyes, on skin, or on clothing.

P281: Use personal protective equipment as required.

### RESPONSE

P353: Rinse skin or shower with water.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

### STORAGE

P402+P404: Store in a dry place. Store in a closed container.

### DISPOSAL

P501: If they can not be recycled, dispose of contents and containers to landfill (see Section 13 of this SDS).

## Emergency Overview

**Physical Description & Colour:** Brown granular solid

**Odour:** No appreciable odour

**Major Health Hazards:** No known major health hazards

## Section 3 - Composition/Information on Ingredients

| Ingredients                              | CAS No    | Conc. % |
|--|-----------|---------|
| Potassium Nitrate                        | 7757-79-1 | 100     |
| Methylene Urea                           | 9011-05-6 |         |
| Humic Acid                               | 1415-93-6 |         |
| Nutrismart*                              | n/a       |         |
| Aquasorb Water crystals (polyacrylamide) | n/a       |         |

## SAFETY DATA SHEET

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible. \* Biologically active organic fertiliser

## Section 4 - First Aid Measures

**General Information:** You should call The Poisons Information Centre if you feel that you may have been poisoned, 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 but dust may cause irritation. Remove to fresh air.

**Skin Contact:** No hazards which require special first aid measures. May cause irritation to skin. Wash with soap and water

**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:** Rinse out mouth with plenty of water and if large quantities have been ingested, seek medical assistance.

## 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 can render surfaces extremely slippery.

**Flash point:** Not flammable

**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.

## 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. Usually, no respirator is necessary when using this product. 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:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS 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 in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Make sure that containers of this product are kept tightly closed. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check packaging - there may be further storage instructions on the label.

## Section 8 - Exposure Controls and Personal Protection

| Exposure Limits | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) | ADI (mg/Kg/day) | NOEL (mg/Kg/day) |
|-----------------|--------------------------|---------------------------|-----------------|------------------|
|-----------------|--------------------------|---------------------------|-----------------|------------------|

Exposure limits have not been set for any ingredients of this product. 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 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

ADI means Acceptable Daily Intake and NOEL means No-observable-effect-level. (ADI List 31<sup>ST</sup> Dec 2006)

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

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

## SAFETY DATA SHEET

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:** Skin contact should be minimised through use of gloves and long sleeves shirts

**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/m<sup>3</sup>

## Section 9 - Physical and Chemical Properties:

|   |                                 |
|---|---------------------------------|
| <b>Physical Description &amp; colour:</b> | Brown Granular solid            |
| <b>Odour:</b>                             | None to slight                  |
| <b>Melting Point:</b>                     | Not applicable                  |
| <b>Flash Point:</b>                       | Not Applicable                  |
| <b>Vapour Pressure:</b>                   | Not Applicable                  |
| <b>Vapour Density:</b>                    | No data.                        |
| <b>Water Solubility:</b>                  | Insoluble                       |
| <b>pH:</b>                                | 6.5 – 7.2                       |
| <b>Volatility:</b>                        | No data.                        |
| <b>Auto-ignition temp:</b>                | Not applicable - does not burn. |

## Section 10 - Stability and Reactivity

**Stability:** This product is stable under normal handling and storage conditions

**Conditions to Avoid:** Avoid moisture and temperature extremes.

**Materials to Avoid:** No known incompatibilities

**Fire Decomposition:** Thermal decomposition may produce small quantities of hydrogen cyanide (hydrocyanic acid), nitrogen oxides, carbon oxides from the polyacrylamide

## Section 11 - Toxicological Information

**Local Effects:**

**Target Organs:** There is no data to hand indicating any particular target organs.

### Potential Health Effects

**Inhalation:** This product has low inhalation toxicity. Dust may cause irritation nose and respiratory tract.

**Skin Contact:** Dust may cause irritation to skin but is not a skin sensitiser

**Eye Contact:** This product is moderately irritating to the eyes.

**Ingestion:** Moderately toxic - No adverse effects expected, however, large amounts may cause nausea and vomiting

**Acute Toxicity:**

**Oral:** Not Toxic but may cause nausea or irritation to digestive system  
Polyacrylamide LD50/oral/rat > 5000mg/kg

**Dermal:** Not toxic but may cause irritation  
Polyacrylamide LD50/dermal/rabbit > 200mg/kg

**Sensitisation:** Not sensitising

**Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

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

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

## Classification of Hazardous Ingredients

Ingredient

Risk Phrases

No ingredient mentioned in the HSIS Database is present in this product at hazardous concentrations.

## Section 12 - Ecological Information

**Ecotoxicity** Material is not toxic to the environment

### SAFETY DATA SHEET

**Effects on Aquatic Organisms:** Aquatic Toxicity is unlikely

**Biodegradation:** Unlikely to accumulate in the environment although polyacrylamide component is not readily biodegradable

**Bioaccumulation:** Low, Does not bioaccumulate

**Other adverse effects:** None known

### Section 13 - Disposal Considerations

**Disposal:** Usually, these products may be worked into garden beds or other soil workings. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

### Section 14 - Transport Information

**UN Number:** This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

### Section 15 - Regulatory Information

**AICIS:** All of the significant ingredients in this formulation are compliant with AICIS regulations or are listed on AICIS

### Section 16 - Other Information

**This SDS 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>IMDG</b>      | International Maritime Dangerous Good                      |
| <b>AICS</b>           | Australian Inventory of Chemical Substances  | <b>IMSBC</b>     | International Maritime Solid Bulk Code                     |
| <b>CAS number</b>     | Chemical Abstracts Service Registry Number   | <b>NTP</b>       | National Toxicology Program (USA)                          |
| <b>Hazchem Number</b> | Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters | <b>SUSMP</b>     | Standard for the Uniform Scheduling of Medicines & Poisons |
| <b>IARC</b>           | International Agency for Research on Cancer  | <b>SWA</b>       | Safe Work Australia (formerly ASCC and NOHSC)              |
| <b>IATA</b>           | International Air Transport Authority  | <b>UN Number</b> | United Nations Number                                      |

THIS SDS 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 SDS 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 SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (July 2020)  
Copyright © Amgrow Pty Ltd, November 2021

## SAFETY DATA SHEET