MSD – Safety Data Sheet – Updated 31/5/2017

1. **Identification of material and supplier**

Product Name: BaleGrow Treatment System

Recommended use: Straw bale conditioning

Supplier: BaleGrow

ABN: 42 106 330 431

Address: 120 Warneet Rd Tooradin

Phone: 0448 008 883 or Emergency only 0419 878 262

Chemical nature: Blend of natural ingredients plus, potassium sulphate, ammonium sulphate and wood ash.

2. **Hazards Identification**

Statement of Hazardous nature: This product is classified as **non hazardous according** to SWA

Not a dangerous good according to Australian Dangerous Goods (ADG) code

Risk Phrases: Not Hazardous. No criteria found. No criteria found.

Safety Phrases: S22, S25. Do not breathe dust. Avoid contact with eyes. SUSMP

Classification: None allocated.
ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.
UN Number: None allocated
GHS Signal word: NONE. Not hazardous.
HAZARD STATEMENT: H333: May be harmful if inhaled**. See section 5**
PREVENTIONP260: Do not breathe dusts.
RESPONSE P314: Get medical advice or attention if you feel unwell. **See section 5**
330+P331:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.P370+P378:
Not combustible. Use extinguishing media suited to burning materials.
DISPOSAL P501: Dispose of contents and containers to landfill

Emergency Overview

Physical Description & Colour: Brown powdered solid.
Odour: Characteristic odour.
Major Health Hazards: no significant risk factors have been found for this product.

Potential Health Effects

Inhalation:
Short Term Exposure:
Available data indicates that this product is not harmful. However, product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.
Long Term Exposure: No data for health effects associated with long term inhalation.
Skin Contact: Available data indicates that this product is not harmful. It should present no hazards in normal use. In addition, product is unlikely to cause any discomfort in normal use.
Long Term Exposure: No data for health effects associated with long term skin exposure.
Eye Contact: Short Term Exposure
This product is likely to be mechanically irritating. If exposure is minor or brief, no long term effects should result. However, if material is not removed promptly, scratches to surface of the eye may result with long term consequences.
Long Term Exposure: No data for health effects associated with long term eye exposure
Ingestion: Short Term Exposure
Significant oral exposure is unlikely. However, this product may be
irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.
Long Term Exposure: No data for health effects associated with long term ingestion.
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.

3. Composition/information on ingredients

Ingredients:	CAS	NoConc%	TWA (mg/)
Blend of nonhazardous ingredients	not set	100	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other nonhazardous ingredients are also possible.
The SWA 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 may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated 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
Physical Description & Colour Brown, powdered, solid.
Odour: Characteristic odour.
Major Health Hazards:
No significant risk factors have been found for this product.

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 SDS with you when you call.
Inhalation: No first aid measures normally required. However, if inhalation has occurred, 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: Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with
lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye Contact: Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water until the particles are removed, while holding the eyelid(s) open. Obtain medical attention if irritation persists, or if particles are lodged in surface of the eye(s). Take special care if exposed person is wearing contact lenses.
Ingestion:
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.

5. Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.
Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
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 No data
Upper Flammability Limit: No data.
Lower Flammability Limit: No data.
Autoignition temperature: No data.
Flammability Class: No data.

6. Accidental Release Measure

Accidental release: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, refer to product label for specific instructions. It is good practice to wear rubber or PVC gloves when handling this product. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services. Do not allow to contact with ingredients mentioned in Section 10 below.

7. Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 9 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 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 11.
Storage: Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water.
Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 11.

8. Exposure control 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,
Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear:
AS/NZS2210.SWAExposure Limits (mg/m3) STEL (mg/m3)
Exposure limits have not been established by SWA for 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:
This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested. Eye Protection:
Eye protection is not normally necessary when this product is being used. However, if in doubt, wear suitable protective glasses or goggles. 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 (preferably elbow-
length) when skin contact is likely. Protective Material Types: We suggest that protective clothing be made from the following materials: cotton, rubber, PVC.
Respirator: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask .Otherwise, not normally necessary.

9. Physical and chemical Properties

Physical Description & colour: Brown powdered
Odour: Characteristic odour.
Boiling Point: Not applicable.
Freezing/Melting Point: Decomposes before melting.
Volatiles: No data.
Vapour Pressure: No data.
Vapour Density: Not applicable.
Specific Gravity: No data.
Water Solubility: Some, but not all ingredients are soluble.
pH: No data.
Volatility: No data.
Odour Threshold: No data.
Evaporation Rate: Not applicable.
Coif Oil/water Distribution: No data
Viscosity: Not applicable.
Auto ignition temp: No data

10. Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
Conditions to Avoid: Keep containers tightly closed. Containers should be kept dry.
Incompatibilities: water, acids, bases, oxidising agents.
Fire Decomposition: No specific data. Based on composition of proteins and fats, the following might be expected: Carbon dioxide, and if combustion is incomplete, carbon monoxide and possibly smoke. Nitrogen and its compounds,

11. Toxicological Information

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

Classification of Hazardous Ingredients

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

12. Ecological Information

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

13. Disposal Considerations

Disposal: This product may be recycled or spread on the ground if unused, or if it has not been contaminated to make it unsuitable for its intended use. If it has been contaminated, it may be possible to separate the contamination in some way. Only if neither of these options is suitable, consider landfill.

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.

15. Regulatory Information

AICS: This product is compliant with NICNAS regulations.

16. Other Information

This MSDS contains only safety-related information.

Although every care has been taken in compiling the above information it summarises to our best knowledge at the date if issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the materials in the workplace. Since BaleGrow cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, assess and control the risks arising from its use.

For other data see product literature:
Acronyms:ADG Code
Australian Code for the Transport of Dangerous Goods by Road and
Rail (7thedition)AICS Australian Inventory of Chemical Substances
SWA Safe Work Australia, formerly ASCC and NOHSC
CAS number Chemical Abstracts Service Registry Number
Hazchem Code 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

Issued by: BaleGrow 0448 008 883