



Safety Data Sheet

BetterGROW Garden and Soil Products

IMPORTANT NOTICE: BetterGROW issues this Safety Data Sheet (SDS), in accordance with Safe Work Australia guidelines. As such the information contained herein must not be altered, deleted or added to. BetterGROW will issue a new SDS when there is a change in product specifications and/or Safe Work Australia guidelines/restrictions. BetterGROW will not accept any responsibility for any changes made to its SDS in content by any other person or organisation.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name:	BetterGROW, ABN 71 062 888 117
Address:	2 Wella Way, Somersby, NSW, Australia, 2250
Telephone:	1300 105 500 / 02 4340 9800
Facsimile:	1300 320 547 / 02 4340 5841
Emergency:	1300 300 547
Poison Information Hotline:	13 11 26
Product Name:	BetterGROW Garden Mix, Premium Garden Mix, Native Mix, Light Weight Balcony Mix, Organic Top Dressing and Organic Turf Underlay
Use:	Use for landscaping and general horticultural purposes (BUT NOT RECOMMENDED FOR VEGETABLE GROWING PLANTS)

2. HAZARD IDENTIFICATION

Classified as a hazardous substance according to the health criteria of Work safe Australia. This product is made from organic materials, including composted pine bark and contains living micro-organism. May also contain mineral and fertilizer additives

Classification of substance or mixture

Toxicity Oral:	Category 4
Inhalation:	Category 4
Skin Dermal	Category 4
Eye Damage/irritation	Category 2A
Sensitization-Respiratory	Category 1

Hazard Pictograms



GHS Signal Word: **DANGER**



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Hazard Statements

H302	Harmful if swallowed.
H315	Cause skin irritation
H317	May cause allergic skin reaction.
H319	Cause serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation.

Precautionary Statements

P261	Avoid breathing dust/vapour or spray.
P264	Washed contacted area thoroughly after handling.
P271	Use only outdoors or well-ventilated area.
P281	Use protective equipment as required.
P301+P312	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P304+P340	IF INHALED remove the person to fresh air and keep at rest in a position comfortable for breathing.
P342+P311	If experiencing respiratory symptoms. Call a POISON CENTER or doctor/physician
P362+P363	Take off contaminated clothing and wash before reuse.

DANGEROUS GOOD CLASSIFICATION

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

UN Number: None allocated

3. COMPOSITION/INFORMATION OF INGREDIENTS

Blend of raw and/or composed natural organic materials and mineral additives	CAS No.	Content
	None Allocated	70-90%
Sand (Quartz)	14808-60-7	10-30%



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4. FIRST AID MEASURES

Inhalation:	Remove victim from source of contamination. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position for breathing. Keep at rest until fully recovered. Seek medical advice if effects persist.
Ingestion:	Immediately rinse mouth with water, If swallowed, do NOT induce vomiting. Give a glass of water to drink. If vomiting occurs give further water. Immediately call Poison Information hotline on 13 11 26
Eye:	If in eyes, hold eyelids apart and flush the eyes with continuously with running water for at least 15 minutes, and if symptoms persist, seek medical attention.
Skin:	Effects may be delayed. If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. If symptoms persist, seek medical attention.
Advice to Doctor:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability:	Non-flammable. This product will burn if exposed to fire.
Extinguishing Media:	Dry chemical powder, Carbon dioxide, extinguishing powder or water jet.
Specific Hazards:	Under the conditions this product may emit toxic and/or irritating fumes, smoke and gases including oxides of silica, carbon monoxide, carbon dioxide and oxides of nitrogen.
Advice for firefighters:	Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Water spray may be used to cool down heat-exposed containers. Fight fire from a safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal:

SMALL SPILLS:	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Keep product moist when handling to avoid dust. Collect the material into suitable containers for subsequent recycling or disposal.
LARGE SPILLS:	Control source of ignition and increase ventilation. Prevent material from reaching sewage system, drains, holes and water ways. Evacuate all unprotected personnel. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Sweep up material avoiding dust generation. Spray water on spilled material, if suitable to avoid airborne dust. Collect the material and seal in properly labelled containers or drums for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of crops, sewers or waterways has occurred advise local emergency services.



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7. STORAGE AND HANDLING

- Storage:** These products should be stored in well-ventilated areas away from sources of heat, flame or sparks and out of direct sun light. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks. Ensure that storage conditions comply with applicable local and national regulations and establish good house keeping practices.
- Handling:** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking, and smoking in contaminated areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standard: No specific exposure standards have been allocated for potting mixes and soil products. However the general recommended exposure standards for dust and listed ingredients for Silica sand.

TWA-Silica sand	Total-Inhalation dust (NOHC)	Total-respirable dust (ACGIH)
0.1 mg/m ³	10 mg/m ³	2mg/m ³

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering Measures: All work with this product should be carried out with precautions to avoid skin and eye contact and minimize exposure to dust. Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas with local exhaust ventilation or while wearing appropriate respirator.

Personal Protection: Wear suitable protective equipment including protective clothing, standard duty gloves and safety shoes. Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.



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Hygiene measures: Keep away from food, drink, and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking, or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist, or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown to black
Odour:	Earthy odour
Boiling Point (°C):	N Av
Melting Point (°C):	N Av
Vapour Pressure (20 °C):	N Av
Flashpoint (°C):	N Av
Solubility in Water:	Negligible
Bulk Density	Varies according to composition and moisture content ~ 0.8-1.2 M3/T (0.8-1.2 Kg/L)
pH	6.1-8.1
Flammability Limits:	Not Flammable
Autoignition Temperature °C	N Av (Non-Flammable)

(Typical values only - consult specification sheet) N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of storage handling and use
Conditions to Avoid:	Elevated temperatures and sources of ignition.
Incompatible materials:	Oxidizing agents (Chlorine, peroxide etc). Strong alkalis
Hazardous decomposition products:	Thermal decomposition may result in the release of Carbon-mono and -dioxides
Hazardous Reactions:	No known hazardous reactions

11. TOXOLOGICAL INFORMATION

HEALTH HAZARD INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. However, potting mix dust and vapour mist are recognized to be potential health hazard and contains variety of living organisms, thus material should be handle with special care. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects:

Inhalation	May cause respiratory irritation. Inhalation of dust can cause irritation to nose and throat may have an immediate or delayed effect. Inhalation of dust can exacerbate pre-existing conditions such as asthma and bronchitis.
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- Skin contact:** Contact with skin will result in irritation. Repeated or prolonged skin contact may cause skin dryness and lead to allergic contact dermatitis.
- Ingestion:** Ingestion is unlikely through normal use. However, swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
- Eye contact:** An eye irritant. In the event of eye contact of this material or dust may have an immediate or delayed irritating effect resulting redness, watering and blurred vision.

Acute Toxicity:

Inhalation of dust and/or liquid mist may irritate, inflame or sensitise the nose, throat and lungs resulting asthma or pneumonia-like illnesses. People particularly at risk are those from asthma or allergies and those whose immune-defense systems are compromised.

This product contains silica sand. However, no exposure to free respirable crystalline silica is anticipated during normal use as silica is bound in the wet matrix. It should be noted however, that respirable crystalline silica has been listed as Group 1 human carcinogen by the IARC. Repeated exposure by inhalation may aggravate pre-existing upper respiratory and lungs disorders such as bronchitis. Dust generation should be avoided.

- Sensitisation:** Not expected to be a skin sensitiser
- Aspiration hazard:** Not expected to be an aspiration hazard
- Specific target organ toxicity (single exposure):** May cause respiratory irritation.

Chronic Toxicity:

- Mutagenicity:** Not considered to be mutagenic hazard.
- Carcinogenicity:** Not considered to be carcinogenic hazard.
- Reproductive toxicity (including via lactation):** Not considered to be toxic to reproduction.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways, drains and sewers.

Ecotoxicity:	No information available.
Persistence and degradability:	Organic matter of this product is readily biodegradable.
Bio accumulative potential:	No information available
Mobility:	No information available.



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13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. TRANSPORT INFORMATION

Precaution for user: Trucks to use tarpaulin to cover the load (for bulk deliveries. No other special storage or transport requirements necessary. Not classified as dangerous goods according to the dangerous Goods Code

	ROAD AND RAIL TRANSPORT	MARINE TRANSPORT	AIR TRANSPORT
UN No	Non allocated	Non allocated	Non allocated
Proper Shipping Name	Non allocated	Non allocated	Non allocated
Packaging Group	Non allocated	Non allocated	Non allocated
Sub Risk	None	None	None
Hazchem Code	Non allocated	Non allocated	Non allocated

15. REGULATORY INFORMATION

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety regulation, Australia.

A Poison Schedule Number has not been allocated. Not classified as a Scheduled Poison according to the Standard Uniformed Scheduling of Medicines and Poison (SUSMP)

16. OTHER INFORMATION

Respirators: In general, the use of respirators should be limited, and engineering controls employed to avoid exposure. If respiratory equipment must be worn, ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable, when used for long periods. The use of air powered, or air supplied respirators should be considered where prolonged or repeated use is necessary.

Abbreviations: CAS# - Chemical Abstracts Service number - used to uniquely identify chemical compounds.
GHS: Globally Harmonised System of Classification and Labeling of Chemicals System.
TWA: Time Weight Average airborne concentration over an eight-hour working day
NOHSC: National Occupational Health & Safety Commission, 2004
ACGIH: American Conference of Governmental Occupational Hygienists, 1986



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Health Effects from Exposure:	It should be noted that the effects from exposure to this product would depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that, it is impractical to prepare a Chem Alert report, which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.
Personal Protective Equipment Guidelines:	The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

CONTACT: For further information on this product contact:

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