

Product Name: Grow Safe® 'GARDENER' – Slow-Release Living Fertiliser

A proprietary blend of naturally occurring ingredients which have been blended into natural mineral granular compounds using natural binders in a heat-setting process then combined with nitrogenous and phosphatic compounds. The product contains a specific suit of beneficial soil micro-organisms (probiotics).

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name	AUSTRALIAN MINERAL FERTILISERS PTY LTD (AMF)
ABN	82 137 379 438
Address	Lot 4, Albany Highway, Tenterden WA 6322
Telephone	(08) 9851 7222
Fax	(08) 9851 7293
Email	administration@growsafe.com.au
Web site	www.growsafe.com.au
Synonym(s)	PRODUCT CODE – AMFPB21/HGR21
Use(s)	FERTILISER
SDS date	25th October 2023

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA.

Risk Phrases None allocated

Safety Phrases None allocated

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN Number	None allocated	Transport Hazard Class	None allocated
Packing Group	None allocated	Hazchem Code	None allocated

3. COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	Identification	Classification	Content % by weight
S.O.P	CAS 7778-80-5 EC 834/2007		< 15%
S.O.A	CAS 7783-20-2 EC 231-984-1		< 28%
Kieserite	CAS 14567-4-7		< 5%
AMF Compound Prill – Non Hazardous Ingredients	Various		<65%
"Grow Safe" – Beneficial soil microorganisms (probiotics)			< 1%

Ingredients: Compound prill of naturally occurring minerals, starch binders, vegetable fats and glyceridic oils of plant origin. Specific combination of beneficial soil probiotic micro-organisms (bacteria & fungi). Includes various *single* or *multiple* strains of Azotobacter, Bacilli, Pseudomonas, Trichoderma and VA Mycorrhiza.

4. FIRST AID MEASURES

Eye	If in eyes, hold eyelids apart and flush continuously with running water. If symptomatic contact the Poison Information Centre or a doctor.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	If skin or hair contact occurs, flush skin with running water. If symptomatic contact Poisons Information Centre, a doctor.
Ingestion	If symptomatic for advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
Advice to doctor	Treat symptomatically.

Product Name: Grow Safe® 'GARDENER' – Slow-Release Living Fertiliser**5. FIRE FIGHTING MEASURES**

Flammability	Non flammable
Fire and explosion	No fire or explosion hazard exists
Extinguishing	Use an extinguishing agent suitable for the surrounding fire
Hazchem code	None Allocated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear Personal Protective Equipment (PPE) as detailed in Section 8
Environmental precautions	Nil required
Methods of cleaning up	Product can be used as per instructions
References	Nil available

7. STORAGE AND HANDLING

Storage	Store in a cool, dry ventilated area
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Handling**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure Standards	No exposure standard(s) allocated.
Biological limits	No biological limit allocated
Engineering controls	Avoid inhalation. Use in well ventilated areas

PPE

Eye/Face	Not required under normal conditions of use
Hands	Not required under normal conditions of use
Body	Not required under normal conditions of use
Respiratory	To avoid dust irritation use of dust suppression mask advised.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	GREYISH/BROWN PRILLED GRANULE
Odour	SLIGHT ODOUR
Flammability	NOT APPLICABLE (NOT FLAMMABLE)
Flash point	NOT RELEVANT
Boiling point	NOT APPLICABLE, DECOMPOSES
Melting point	NOT APPLICABLE, DECOMPOSES
Evaporation rate	NOT APPLICABLE
pH	NO DATA
Vapour density	NOT AVAILABLE
Specific gravity	1.600 – 1.750
Solubility (water)	20 – 30% BY WEIGHT
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT

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Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
% Volatiles	NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended conditions of storage
Conditions to avoid	Not available
Materials to avoid	Not available
Hazardous Decomposition Products	Not available
Hazardous Reactions	Not available

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	May be harmful – irritant.
Eye	Dust may irritate eyes (R36)
Inhalation	Use in well ventilated areas. Inhalation of dust may cause slight respiratory irritation (GHS H335)
Skin	Prolonged or repeated skin contact may cause drying, cracking or slight irritation (AUH066)
Ingestion	As with section 4
Toxicity data	Nil data available

12. ECOLOGICAL INFORMATION

Toxicity	No LD ₅₀ data available for the product
Persistence & degradability	No information provided
Bioaccumulative potential	No information provided
Mobility in soil	No information provided.
Other adverse effects	This product is biodegradable. It will not accumulate in the soil, water or cause environmental issues.

13. DISPOSAL CONSIDERATIONS

Waste disposal	Product decomposes (bio-mineral), if required dispose of in accordance with all local, state and federal environmental regulations.
Legislation	NOT AVAILABLE

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG/IMO)	AIR TRANSPORT (IATA/ICAO)
UN Number	None Allocated	None Allocated	None Allocated
Proper Shipping Name	None Allocated	None Allocated	None Allocated
Transport Hazard Class	None Allocated	None Allocated	None Allocated
Packing Group	None Allocated	None Allocated	None Allocated

Environmental hazards No information provided

Special precautions for user

Hazchem code None Allocated

15. REGULATORY INFORMATION

Poison schedule A poison schedule number has not been to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Inventory Listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances)
All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional Information

EXPOSURE STANDARDS – TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour Work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increases the exposure period and shorten the period of recuperation).

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this 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.

HEALTH EFFECTS FROM EXPOSURE: It should be noted that the effects from exposure to this product will 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 report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

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Abbreviations	CAS	Chemical Abstract Service number – used to uniquely identify chemical compounds
	EC	EC No – European Community Number
	ppm	Parts per Million
	REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals
	STEL	Short-Term Exposure Limit
	STOR-RE	Specific target organ toxicity (repeated exposure)
	STOT-SE	Specific target organ toxicity (single exposure)
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
	SWA	Safe Work Australia
	TWA	Time Weighted Average

Revision History

Revision	Description
2.2	Standard SDS Review
2.1	Standard SDS Review
2.0	Standard SDS Review
1.0	Initial SDS Creation

Report status

This document has been compiled by AMF and serves as AMF's Safety Data Sheet ('SDS').

It is based on all relevant information concerning the product provided by AMF, importer(s) or supplier(s) or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from AMF.

Revision: 2.2

SDS Date: 25th October 2023

End of SDS