

## Product Name: AMF GROW SAFE SPREADABLE SOIL MICROBES &amp; TRACE ELEMENTS

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

|               |  |
|---------------|--|
| Supplier Name | AUSTRALIAN MINERAL FERTILISERS (AMF)                             |
| 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 – AMFSSMTE/SMTE30                                   |
| Other Names   | Ag Spreadable Soil Microbes, Commercial Spreadable Soil Microbes |
| Use(s)        | Soil probiotic with trace nutrients to promote plant growth.     |
| SDS date      | 17 <sup>th</sup> May 2021  |

## 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  |
|---|----------------|------------------|----------------------|
| Rock Mineral Granule – Non Hazardous Ingredients                | Various        | Trace Elements   | 95 - 99%             |
| Naturally occurring beneficial soil microorganisms (probiotics) | NA             | Bacteria & Fungi | 270 Billion CFU's/kg |

**Ingredients:** Specific combination of naturally occurring soil micro-organisms (bacteria & fungi). Includes but not limited to various *single* or *multiple* strains of Azotobacter, Bacillus, Rhizobium, Pseudomonas, Trichoderma, and Vesicular Arbuscular Mycorrhizae (Endophytic) along with 65 Trace minerals.

## 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.   |
| Skin                 | If skin or hair contact occurs, flush skin with running water. If symptomatic contact Poisons Information Centre, a doctor.  |
| Ingestion            | No effect if ingested in small amounts. Product considered nontoxic by 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.   |
| First aid facilities | Eye wash facilities recommended.   |

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### 5. FIRE FIGHTING MEASURES

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|                    |  |
|--------------------|--|
| 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   |

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### 6. ACCIDENTAL RELEASE MEASURES

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|                           |   |
|---------------------------|---|
| 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   |

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### 7. STORAGE AND HANDLING

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|----------|--|
| Storage  | Store in a cool, dry ventilated area. Do not freeze. |
| Handling | Avoid skin & eye contact.                            |

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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|                      |   |
|----------------------|---|
| Exposure Standards   | No exposure standard(s) allocated. Microorganisms are all class 1 and non-pathogenic but may cause infection when in contact with open wounds. The microorganisms are susceptible to commonly used antibiotics. |
| 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

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|                       |                                |
|-----------------------|--------------------------------|
| Appearance            | BROWN PRILLED GRANULE          |
| Odour                 | EARTHY ORGANIC 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                    | 7 – 8 IN WATER                 |
| Vapour density        | NOT AVAILABLE                  |
| Specific gravity      | DATA NOT AVAILABLE             |
| Solubility (water)    | PARTIAL                        |
| 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 AVAILALBE |

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### 10. STABILITY AND REACTIVITY

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|                                  |  |
|----------------------------------|--|
| 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                                  |

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### 11. TOXICOLOGICAL INFORMATION

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|                       |   |
|-----------------------|---|
| Health Hazard Summary | May be harmful – irritant.  |
| Eye                   | Powder may irritate eyes (R36)  |
| Inhalation            | 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  |

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### 12. ECOLOGICAL INFORMATION

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|                             |                          |
|-----------------------------|--------------------------|
| Toxicity                    | No information provided  |
| Persistence & degradability | No information provided  |
| Bioaccumulative potential   | No information provided  |
| Mobility in soil            | No information provided. |
| Other adverse effects       | Nil adverse effects.     |

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### 13. DISPOSAL CONSIDERATIONS

|                |   |
|----------------|---|
| Waste disposal | Product decomposes (probiotic), 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<br>(ADG) | SEA TRANSPORT<br>(IMDG/IMO) | AIR TRANSPORT<br>(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          |
|----------|----------------------|
| 2.1      | 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: 2.1**

**SDS Date: 17<sup>th</sup> May 2021**

**End of SDS**