

Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Vam Grow Plus
Synonyms: -
Product Type: Microbial Inoculant

Company Name: Hi-Tech Ag Solutions
 24 Shanahan Road (PO Box 5351)
 Davenport WA 6230 Australia

Phone: 08 9725 7322

Emergency Contact: Terry Kneale
After Hours Chief Executive Office
 0499 944 099

Date of Issue: 25th March 2019

2. HAZARDS IDENTIFICATION

Hazard Classification: **Classes as HAZARDOUS according to the criteria of the globally harmonised system of classification and labelling of chemicals (GHS) NON-DANGEROUS GOODS. - Dangerous goods classification according to the Australia Dangerous Goods Code.**

Route(s) of entry: Inhalation, Skin, Eyes
 Excessive inhalation of dust may result in shortness of breath and reduced pulmonary function. Persons with acute allergies to molds or other fungus could become asthmatic, with wheezing and breathing difficulties (rare) or could experience typical hayfever symptoms. Contact with eyes or open wounds may result in irritation and/or infection.

GHS Classification: Target Organ Toxicity

Label Elements:



Signal Word: Danger

Hazard Statement: H372 – Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s): P201 – Obtain Special Instruction before use
 P202 - Do not handle until all safety precautions have been read and understood
 P281 – Use personal protective equipment as required

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Response: P308+P313 – if exposed or concerned. Get medical advice/attention

Storage: P405 – Store locked up.

Disposal: P501- Dispose of Contents/container to an approved waste disposal plant.

3. INFORMATION ON INGREDIENTS

Chemical type
 Endomycorrhizae Rhizophagus
 Trichoderma harzianum strain T78
 Trichoderma viride
 Bacillus subtilis
 Bacillus licheniformis

Hazardous constituents Substance	CAS	Classification Directive 67/548/EEC	Classification Regulation (EC) No. 1272/2008	concentration
Cristobalite	14464-46-1	-		< 20%
Quartz	14808-60-7	-		< 20%
Cristobalite fraction respirable (<10µm)	-	Xn; R48/20	STOT RE 1; H372	< 1%

4. FIRST AID MEASURES

Inhalation: In case of respiratory distress, remove individual from exposure to fresh air, wash mouth, and throat with plenty of water. Seek medical attention.

Ingestion: Do not induce vomiting, unless instructed by doctor. Drink Plenty of water. Seek medical attention.

Skin Contact:



Wash skin with soap and water. Apply antiseptic if material contacts open wounds. Watch for infection. Seek medical advice if irritation persists.

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Eye:



Rinse immediately the affected eyes with abundant amount of water for at least 15 minutes. Watch for allergic reaction or eye infection.

First Aid Facilities: Eyewash and normal washroom facilities

Advice to Doctor: Treat symptomatically.

Other Information: For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126; New Zealand 0800 POISON / 0800 764 766) or a doctor at once.

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5. FIRE FIGHTING MEASURES

Hazards from Combustion: **Non-combustible material.**

Specific Hazards: This product is non-combustible.

Precautions in connection with Fire: Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes.

Extiguishing Media: Water, foam, dry powder.

Hazchem Code: Not Regulated

6. ACCIDENTAL RELEASE MEASURES

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Emergency Procedures: Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. If possible, contain the spill. Vacuum up product. If it is not possible, dampen then sweep up.. Collect the material and place into a suitable labelled container.

Avoid generation airborne dust.

Other Information: Large spills may be reportable to the state and/or local regulatory agencies.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid the formation and accumulation of dust. Use suitable methods of discharge and handling to prevent dust generation. Appropriate breathing apparatus and safety goggles are recommended. Avoid acids and extreme heat, as these will kill fungal spores. Wash hands after handling, and before eating and drinking.

Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, and smoking or using toilet facilities.

Conditions for Safe Storage: Store under cool, dry conditions, temperatures below 20°C, away from direct contact with sunlight. Hazardous reaction with hydrofluoric acid.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards: No exposure value assigned for this specific material

Biological Limit Values: No biological limits allocated.

Engineering Controls: Use with good general ventilation.

Respiratory Protection: In confined spaces respiratory (dust) mask and goggles should be worn, particularly if dust concentration is for than 6mg/m³

Eye Protection:



Safety glasses with side shields or chemical goggles should be worn. An emergency eyewash or water supply should be readily accessible to the work area.

Final choice of appropriate eye/face protection will vary according to individual circumstances.

Eye protection devices should conform to Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

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Hand Protection:



None needed but rubber gloves if desired

Body Protection:

No special protective clothing is required. Wash hand after handling products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Beige Powder
Odour:	None
Boiling Point:	N/A
Melting Point:	> 1000°C
Solubility in Water:	Negligible
Bulk Density:	0.8g/cc
pH Value	Neutral 6.8 in water
Vapour Pressure:	N/A
Vapour Density (Air=1):	N/A
Colour:	Beige
Flash Point:	N/A
Flammability:	Not flammable
Auto-Ignition Temperature:	N/A
Flammable Limits Lower:	N/A
Flammable Limits Upper:	N/A

Note: Physical data typical values but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal storage temperature

Conditions to Avoid: Conditions above 20°C

Chemical Stability: Stable under normal conditions of storage and handling.

Incompatible Materials: Hydrofluoric acid

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: Data not available

Skin Corrosion/Irritation: Data not available

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Eye Irritant:	Possible temporary irritation due to dust. (physical effect of dust).
Respiratory irritation:	Possible temporary irritation of respiratory tract. (Physical effect of silica dust).
Germ Cell Mutagenicity:	Data not available
Carcinogenicity	Data not available
Reproductive Toxicity:	Data not available
STOT – single exposure	Data not available
STOT- repeated exposure:	Data not available
Aspiration Hazard:	Data not available

12. ECOLOGICAL INFORMATION

Eco-toxicity:	The product is not hazardous to the environment
Persistence & degradability:	Not readily biodegradable.
Bio accumulative potential:	Data not available
Mobility in air:	Highly mobile (dust)

13. DISPOSAL CONSIDERATIONS

Dispose of in appropriately licence general landfill site in accordance with local, state and federal regulations. Waste should be labelled. Special arrangements made to bury bulk waste upon dumping, limiting exposure.

14. TRANSPORTATION INFORMATION

The product is a not considered a dangerous good and not subject to the provisions of ADR (road), RID (railway), IMDG (sea) or IATA (airplane).

15. REGULATORY INFORMATION

Poisons Schedule: Not a scheduled poison (standard for the uniform scheduling of drugs and poisons NO. 22)

EEC regulations
Labeling Directive Hazardous substances 67/548/EEC modified.
Symbol(s) Xn: Harmful
Hazardous product Cristobalite fraction respirable
R Phrase(s) R 48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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H Phrase(s) H372: Causes damage to organs through prolonged or repeated exposure if inhaled.

S Phrase(s) S 22: Do not breathe dust.

16. OTHER INFORMATION

While the information is herein correct to the best of our knowledge, Hi-Tech Ag Solutions PTY LTD herein disclaims any warranties as to the accuracy of the same. Recommendations or suggestions are made without guarantee or representation as to result, as the condition that the buyer shall make his own test to determine its suitable for buyers purposes. No statement contained herein shall be constructed as a recommendation to infringe any patent. If this SDS is more than 2 years old please enquire if any revisions have been made prior to its use. This SDS was prepared from information provided by Hi-Tech Ag Solutions PTY LTD with the approval from Hi-Tech Ag Solutions PTY LTD.

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