

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Vam Ultra

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: 0499 944 099

Date of Issue: 30 August 2021

2. HAZARDS IDENTIFICATION

Hazard Classification: Hazard classification according to criteria by GHS classification

Hazard Category Warning; Harmful

GHS Classification: Inhalation, Skin and Eyes
Excessive inhalation of dust may result in shortness of breath and reduced pulmonary function. Persons with acute allergies to moulds or other fungus could become asthmatic, with wheezing and breathing difficulties (rare) or could experience typical hay fever symptom. Contact with eyes or open wounds may result in irritation and/or infection.

Label Elements:



Signal Word: Warning; Harmful

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

Precautionary Statement(s): P260 - Do not breathe vapours.

Response: P314 – Get medical advice if you feel unwell.

Storage: P403 - Store in a cool well-ventilated area with lid tightly closed

Disposal: P501 - Dispose of contents/container according to applicable local and state government regulations.

3. INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Classification Directive 67/548/EEC	Classification Regulation No. 1272/2008	Proportion
Cristobalite	14464-46-1	-	-	< 20%
Quartz	14808-60-7	-	-	< 20%
Cristobalite fraction respirable(<10µm)	10034-96-5	Xn: R48/20	STOT RE: 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.

Skin Contact: Wash skin with soap and water. Apply antiseptic if material contacts open wounds. Watch for infection.

Eye: Rinse immediately the affected eyes with abundant amount of water. Watch for allergic reaction or eye infection

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

Extinguishing materials: Water, foam, dry powder

Extinguishing materials to avoid: none

Special firefighting procedures Respiratory protection to avoid breathing dust and smoke.

6. ACCIDENTAL RELEASE MEASURES

Measures for environmental Protection: Avoid generation of airborne dust.

Clean Up Procedures: Vacuum up product, if not possible to dampen then sweep up

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.

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

8. PERSONAL PROTECTION

PPE:

Eye Protection: Safety or chemical goggles
Hand Protection: Wear gloves of impervious material
Respiratory Protection: Wear dust masks
Body Protection Wear chemical resistant coveralls



General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pinkish Beige Powder **Melting Point:** >1000°C

Odour: None **Solubility in Water:** Negligible

pH Value 7.00 **Vapour Pressure:** 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

Stability: Stable at normal storage temperature

Materials to Avoid: Hydrofluoric Acid

11. TOXICOLOGICAL INFORMATION

Silicas are considered to have no acute toxicity for humans

Local Effects	Inhalation	Possible temporary irritation of respiratory tract (Physical effect of Silica)
	Eye Contact	Possible irritation due to dust (physical effect of dust)
Sensitization	inhalation	No effect reported
	Skin Contact	No effect reported
Specific target organ toxicity:	STOT – single exposure	Inhalation: Possible temporary irritation of respiratory tract
	STOT- repeated exposure:	According to composition, not classified as dangerous according to Regulation (EC) No 1272/2008

12. ECOLOGICAL INFORMATION

Mobility in air	Highly mobile (Dust)
Eco-toxicity:	Product not hazardous to the environment
Persistence /degradability:	Not readily biodegradable

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Dispose at an approved disposal site in accordance with statutory requirements.
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14. TRANSPORTATION INFORMATION

Not hazardous for transport.

15. REGULATORY INFORMATION

EEC Regulations	
Labelling	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
H Phrase(s)	H372: Causes damage to organs through prolonged or repeated exposure, if inhaled.
S Phrase(s)	S22: Do not breathe dust
Further Regulations	The guidelines for the prevention of accidents according to the local regulations must be followed.

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 it's suitable for buyer's 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 .

Key/Legend

<	Less Than	atm	Atmosphere
>	Greater Than	CAS	Chemical Abstracts Service (Registry Number)
AICS	Australian Inventory of Chemical Substances	cm ²	Square Centimetres
CO₂	Carbon Dioxide	COD	Chemical Oxygen Demand
(°C)	Degrees Celsius	K	Kelvin

g	Grams	GHS	Globally Harmonised System
g/cm³	Grams per Cubic Centimetre	g/l	Grams per Litre
mmHg	Millimetre of Mercury	Kg	Kilogram
Kg/m³	Kilograms per cubic metre	lb	Pound
LC50	Lethal Concentration of a material in air which causes the death of 50% of a group of test animals.	LD 50	Lethal dose of material given all at once, which causes death of 50% of a group of test animals.
Ltr/L	Litre	m³	Cubic meter
mbar	Minibar	mg	Milligram
mg/24H	Milligrams per 24 Hour	mg/kg	Milligrams per Kilogram
mg/m³	Milligrams per Cubic Metre	mm	Millimetre
mmH2O	Millimetres of Water	mPa.s	Millipascals per Second
N/A	Not Applicable	NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission	OECD	Organisation for Economic Co-operation & Development
Oz	Ounce	PEL	Permissible Exposure Limit
Pa	Pascal	ppb	Parts per Billion
ppm	Parts per Million	ppm/2h	Parts per Million per 2 Hours
ppm/6h	Parts per Million per 6 Hours	psi	Pounds per Square Inch
R	Rankine	RCP	Reciprocal Calculation Procedure
STOT	Specific Target Organ Toxicity	TLV	Threshold Limit Value
Tne	Tonne	TWA	Time Weighted Average
µg/24H	Micrograms per 24 Hours	UN	United Nations
wt.	Weight	Immiscible : Liquids are insoluble in each other	
Misc. or Miscible liquids form one homogenous liquid phase regardless of the amount of either component.			

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