

Organic Farming Systems

(Sustainable Ventures Pty Ltd ACN 076 001 100)

Tel: 08 9384 3789
Fax: 08 9384 3379
Email: admin@organicfarming.com.au
Address: PO Box 419, Cottesloe WA 6911
Warehouse: 3 Rawlinson St, O'Connor WA 6163



Material Safety Data Sheet – Vital Gold

1. Identification of the Material and Supplier

Trade Name: Vital Gold
Chemical Name: N/A
Approved Use: Fertilizer
Supplier: Organic Farming Systems
PO Box 419
Cottesloe WA 6011
Tel: 08 9384 3789
1800 765 007
Emergency Telephone Number 0417 992 970

2. Composition / Information on Ingredients

Ingredients

No.	Name	CAS No.	Hazchem Code	Level	DG
1.	Urea	57-13-6	N/A	>50%	N/A
2.	Ammonium nitrate	6484-52-2	N/A	<50%	N/A
3.	Kelp	none allocated	N/A	<10%	N/A
4.	Fulvic Powder	none allocated	N/A	<10%	N/A

3. Hazards Identification

Risk Phase: Ingredients not as a dangerous good according to ADG Code.
Hazard Classification: Ingredients not classified as hazardous according to Safer Work Australia criteria.

4. First - Aid Measures

Health Effects

Whenever fertilizers are in regular use ensure drinking water and eye wash facilities are available.

In case of serious personal contamination always seek medical help immediately.

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Acute	Swallowed:	If person conscious, rinse mouth thoroughly with water, and give water or milk to drink. Never give anything to an unconscious person. DO NOT INDUCE VOMITING. Seek medical attention. If vomiting occurs place patient in the recovery position. Seek medical attention immediately.
	Eye:	Flush gently with running water for at least 15 minutes lifting lower and upper eyelids occasionally. Seek medical attention if irritation develops.
	Skin:	Gently flush affected areas with water. Seek medical attention if irritation develops. Immediately remove all contaminated clothing and launder before re-use. May cause mild irritation especially to damaged skin.
	Inhalation:	If over exposure occurs remove affected person to well ventilated area. Keep warm and rest. If symptoms persist seek medical advice. If breathing is difficult give oxygen. If not breathing , administer artificial respiration.

4. Precautions for Use

Exposure Standards:	Standards have not been established by Worksafe Australia for any of the major ingredients in this product.
Engineering Controls:	Corrosive to copper, zinc, aluminium (or their alloys), mild steel and concrete. Do not use these materials for construction of handling systems or storage containers.
Personal Protection	
Respirator Type:	Where mist a problem use P2 type respirator
Glove Type:	Wear PVC gloves
Eye Protection:	Wear chemical safety glasses
Clothing:	Wear PVC jacket and pants

5. Fire-Fighting Measures

Flammability	Ingredients non flammable and does not support combustion. After evaporation of water from this product, an ammonium nitrate residue may appear. Ammonium nitrate is an oxidizing agent.
Suitable Extinguishing Media	Not applicable
Hazards from Combustion	Wear self- contained breathing apparatus with full protective clothing. Fire will cause UAN to decompose, giving off acrid smoke, toxic and flammable fumes of nitrogen oxides, cyanuric acid, ammonia, carbon dioxide and carbon monoxide.
Hazchem Code	None allocated

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6. Accidental Release Measure

Emergency Procedures: Isolate the area and deny entry to nonessential personnel. Emergency responders and/or clean up personnel should wear appropriate protective clothing and equipment.

Methods & Materials for Containment & Cleanup: Prevent from entering drains or waterways. Contain with sand, earth or vermiculite. Collect contaminated material promptly. Wash down with water and prevent run off into drains, sewers or waterways.
Dispose of on a farm , or authorized waste facility, in accordance with Department of Environment requirements.

7. Handling and Storage

Precautions for Safe Handling: This product is not readily combustible under normal conditions and is not considered a fire risk. Avoid heating in a confined space. Avoid pumping against a shut valve as overheating may cause an explosion in the pump. Residues from evaporation of water may contain ammonium nitrate, which is an oxidizing agent.

Conditions for Safe Storage: Store in a dedicated clean tank. Avoid contact with other chemicals and evaporation of water from the product.

Storage Incompatibilities: Avoid mixing with mineral acids, eg phosphoric acid, sulfuric acid, nitric acid and hydrochloric acid as this can result in formation of a potentially explosive precipitate.
Avoid storage and contamination with chlorine bleaches, pool chlorine and hypochlorites. May react and form explosive nitrogen trichloride.
Keep away from copper, zinc, aluminium (or their alloys), mild steel, concrete, foodstuffs and foodstuff containers.

8. Exposure Controls / Personal Protection

Precautions: Wash hands before meals and after work.
Ensure adequate ventilation of the working area.
Avoid breathing mist when spraying.
Store in original container, tightly closed in a safe frost-free place out of direct sunlight. Store away from children, pets, livestock and foodstuffs.

Engineering Controls: Corrosive to copper, zinc, aluminium (or their alloys), mild steel and concrete. Do not use these materials for construction of handling systems or storage

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Protective Clothing:	containers. Wear full protective overall clothing. Wear chemical resistant PVC or rubber gloves and boots. Wear approved safety face shield or goggles. Where mist is a problem, use P2 type respirator.
Occupational Exposure Limits:	Not specified. Use in open and well ventilated areas.

9. Physical and Chemical Properties

Appearance:	Golden brown
Odour:	Ammoniacal odour
pH:	6-7
Boiling Point:	Stable at ambient temperature. May decompose over 117°C
Melting Point:	Not determined. Liquid at ambient conditions
Vapour Pressure:	Does not exert significant vapour pressure
Relative Density:	1.3
Solubility (water and fat):	Miscible in water in all proportions Not soluble in ethyl alcohol or acetone.

10. Stability and Reactivity

Stability:	Stable at ambient conditions
Reactivity:	Reactive with mineral acids, chlorine, oxidizing agents and alkalis.
Hazardous Decomposition Products:	Fire will cause the product to decompose, giving off acrid smoke and toxic and flammable fumes of nitrogen oxides, cyanuric acid, ammonia, carbon dioxide and carbon monoxide.
Incompatible Materials and Conditions to Avoid:	Corrosive to copper, zinc, aluminium (or their alloys), mild steel and concrete.

11. Toxicological Information

Toxicity Data:	Ammonium nitrate LD50 (oral): 4,500 mg/kg (rat) Urea LD50 (oral) : 8,471 mg/L (rat) (LD 50 – the single dose of a substance that causes Death of 50% of an animal population from exposure other than inhalation)
Health Effects	Presents moderate toxicity if swallowed. Not classed as hazardous according to Worksafe Australia. Product contains nitrates, which may be reduced to nitrites by intestinal bacteria. Nitrites may affect the blood (methaemoglobinaemia) and blood vessels (vasodilation and a fall in blood pressure).

12. Ecological Information

Mobility:	May leach into groundwater if released to soil. Will evaporate water content readily.
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Degradability:
Accumulation: Bio-accumulation unknown.

13. Disposal Considerations

Product and Water: Dispose of on farm or authorized waster facility in accordance with statutory requirements. May be broadcast on farm as fertilizer using proper agriculture and soil management.

Containers: Do not re-use packaging for any other purpose. Dispose of used packaging in accordance with all local and national regulations.

14. Transport Information

Special Transport Considerations:	Non-Hazardous
Road/Rail Classification:	Not Restricted
IMDG Classification:	Not Restricted
Air Classification:	Not Restricted
UN Number:	None allocated
UN Proper Shipping Name:	None allocated
Class & Subsidiary Risk	None allocated
Packing Group	None allocated
Hazchem Code:	None allocated

16. Other Information

Australian Poisons Information Centre 13 11 26

17. Contact Point

Organic Farming Systems - Steven David (Manager) 08 9384 3789

Disclaimer

The data and recommendations presented herein are based upon research of others and are believed to be accurate. However, no warranty is expressed or implied regarding this data or the results to be obtained from use thereof. Organic Farming Systems assumes no responsibility for the injury to customers or third party proximity caused by the material if reasonable safety procedures are not adhered to as stipulated in this data sheet. This information relates only to the specific material designated and may not be valid if the product is used in combination with any other product or material, or as part of another process.