



Whitfert Material Safety Data Sheet Urea Ammonium Nitrate

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STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of WorkSafe Australia

COMPANY DETAILS

Company	Whitfert
Address	54 Beach Street Kwinana
Telephone Number	(08) 9419 9999
Emergency Telephone Number	1800 654 089 (Not 24 Hours: 7am–5pm)

IDENTIFICATION

Product Name	Urea Ammonium Nitrate
Other Names	UAN, Liquid fertiliser, Urea ammonium nitrate solution
Product Code	No Product Code allocated
U.N. Number	No UN number allocated
Dangerous Goods Class	No Dangerous Goods Class allocated
Subsidiary Risk	No Subsidiary Risk allocated
Hazchem Code	No Hazchem Code allocated
Packing Group	No Packing Group allocated
Poisons Schedule Number	No Poisons Schedule Number allocated
Use	Liquid fertiliser

PHYSICAL DESCRIPTION/PROPERTIES

Appearance	Colourless liquid
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
Specific Gravity	1.3
Flammability Limits	Not flammable
Solubility in Water	Miscible in all proportions.

OTHER PROPERTIES

Corrosiveness	Corrosive to copper, zinc, aluminium (or their alloys), mild steel and concrete.
Reactivity With Common Substances	Reactive with mineral acids, chlorine, oxidizing agents and alkalis.
Solubility in organic solvents	Not soluble in ethyl alcohol or acetone.
Bulk Density	1.32 tonne/m ³



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INGREDIENTS		
Major		
Chemical Entity	Proportion (%wt/wt)	C.A.S. No.
Urea	50%	57-13-6
Ammonium Nitrate	50%	

Contains ammonium nitrate and urea in proportions that render the product to not be hazardous or classed as a dangerous good according to the Dangerous Goods Code.

HEALTH HAZARD INFORMATION

Health Effects	Presents moderate toxicity if swallowed. Not classed as hazardous according to Worksafe Australia. UAN 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).
Toxicity Data	Ammonium nitrate LD50 (oral): 4,500 mg/kg (rat) Urea LD50 (oral): 8,471 mg/L (rat)

FIRST AID	
Swallowed	If victim is conscious and alert, rinse mouth thoroughly and give water or milk to drink. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek medical attention immediately.
Eye Contact	Immediately flush with fresh water for at least 15 minutes. Hold eyes open while flushing with water. Seek medical attention if irritation persists.
Skin Contact	Immediately remove contaminated clothing and shoes. Flush skin with fresh water for at least 15 minutes. Do not reuse contaminated clothing without laundering. Seek medical attention if irritation persists.
Inhaled	Remove victim to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. Seek medical attention immediately.
First Aid Facilities	Ensure drinking water and eye wash bottles are available when Urea ammonium nitrate based fertilisers are in regular use.
Advice to Doctor	Treat symptomatically



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PRECAUTIONS FOR USE

Exposure standards	No exposure standard allocated. Use in open or well ventilated areas.
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 (AS 1716)	Avoid inhaling the mist by wearing class P2 type dust mask when necessary.
Eye protection	Chemical safety glasses can be worn to help prevent contact with the eyes.
Glove type	PVC gloves can be worn to prevent skin contact.
Clothing	PVC jacket and pants to help prevent skin contact.
Personal Hygiene	Ensure clothing is washed and personal protective equipment replaced or washed before reuse if contaminated. Wash hands and face after handling and before work breaks when handling food, smoking or toilet breaks, etc.

FLAMMABILITY

Fire Hazards	UAN is 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.
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SAFE HANDLING INFORMATION

STORAGE & TRANSPORT

Location	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, sulphuric 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.
Dangerous Goods class	No Dangerous Goods Class Allocated
Subsidiary Risk	No Subsidiary Risk Allocated
Special Transport Requirements	



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SPILLS AND DISPOSAL	
Minimising Spill / leak	Isolate the area and deny entry to nonessential personnel. Emergency responders and/or clean up personnel should wear appropriate protective clothing and equipment.
Clean Up Methods	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. May be broadcast on farm as fertilizer using proper agriculture and soil management.
Precautions for Clean Up Crew	Clean Up crew should wear P2 type masks, PVC gloves, chemical safety goggles and PVC jacket and pants.
Specialised Equipment for Clean Up	Depending on the size of the spillage, a front end loader may be required for clean up.

FIRE AND EXPLOSION HAZARD	
Hazards of use / storage	UAN 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.
Dangerous Decomposition or Combustion Products	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.
Fire Fighting recommendations	Not applicable.
Types of Extinguishers	Not applicable.
Fire Fighting Agents	Not applicable.
Hazchem Code	No Hazchem Code allocated.

OTHER INFORMATION

May leach into groundwater if released to soil. Will evaporate water content readily.

CONTACT INFORMATION

Organisation	Location	Person	Telephone
Whitfert	54 Beach Street Kwinana WA	Safety administrator	(08) 9419 9999
Poisons Information Centre	Subiaco WA	Duty officer	13 11 26

DISCLAIMER

As the ordinary or otherwise use(s) of this product is outside the control of Whitfert, no representation or warranty, expressed or implied, is made as to the effect (s) of such use(s), (including damage or injury), or the results obtained. Users of the product should ensure they read this Material Safety Data Sheet and endeavour to understand the information in regard to how the product will be handled and used in the work place, particularly in conjunction with other products. This Material safety Data Sheet summarises our best knowledge of the health and safety hazard information of the practices involved in safely handling the product in the work place. If Additional information or further explanations of safety procedures are required to take the appropriate safety precautions, the handler can contact Whitfert on (08) 9419 9999.