



# Whitfert Material Safety Data Sheet Urea

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## STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of WorkSafe Australia

## COMPANY DETAILS

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

## IDENTIFICATION

<b>Product Name</b>	Urea
<b>Other Names</b>	Carbamide
<b>Product Code</b>	No Product Code allocated
<b>U.N. Number</b>	No UN number allocated
<b>Dangerous Goods Class</b>	No Dangerous Goods Class allocated
<b>Subsidiary Risk</b>	No Subsidiary Risk allocated
<b>Hazchem Code</b>	No Hazchem Code allocated
<b>Packing Group</b>	No Packing Group allocated
<b>Poisons Schedule Number</b>	No Poisons Schedule Number allocated
<b>Use</b>	Fertiliser

## PHYSICAL DESCRIPTION/PROPERTIES

<b>Appearance</b>	White granules, or light green granules
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Decomposes at 135 °C before melting
<b>Vapour Pressure</b>	Does not exert significant vapour pressure
<b>Specific Gravity</b>	1.34
<b>Flash Point</b>	Does not give off flammable vapours
<b>Flammability Limits</b>	Not flammable
<b>Solubility in Water</b>	119.3.7g/100ml @ 25 °c

## OTHER PROPERTIES

<b>Corrosiveness</b>	Mildly corrosive to iron, mild steel, cobalt, zinc, copper and aluminium.
<b>Reactivity With Common Substances</b>	Reactive with oxidizing agent, alkalis, nitrates, hypochlorites, metallic powders, strong acids and permanganates.
<b>Solubility in organic solvents</b>	Soluble in acetone or alcohol
<b>Ph of 10% solution</b>	7.0-8.0
<b>Bulk Density</b>	0.7-0.8 tonne/m <sup>3</sup>



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INGREDIENTS		
Major		
Chemical Entity	Proportion (%wt/wt)	C.A.S. No.
Urea	98.5% minimum	57-13-6
Various impurities	Remainder	

## HEALTH HAZARD INFORMATION

<b>HEALTH EFFECTS – ACUTE</b> – Urea based Fertilisers have a low toxicity. It is not classified as hazardous according to criteria of WorkSafe Australia.	
<b>Swallowed</b>	Low degree of toxicity via ingestion. In cases where large amounts are ingested there may be a reaction of nausea, diarrhoea and vomiting. LD <sub>50</sub> on rats, orally, greater than 14,000 mg/ kg.
<b>Eye Contact</b>	Contact may cause mild irritation, in the form of redness, stinging and watering.
<b>Skin Contact</b>	Dust may dry out skin and cause irritation, itching and redness, especially if the skin has previously been exposed to abrasion. No harmful effects from skin absorption have been reported.
<b>Inhaled</b>	Mild irritant may cause irritation to the nose and upper respiratory tract when high concentrations of air-borne dust are present.
<b>HEALTH EFFECTS – CHRONIC</b> - There is no known effect from chronic exposure to Urea based fertilisers.	

FIRST AID	
<b>Swallowed</b>	Providing the person is conscious wash out mouth with water and give water or milk to drink. Do not induce vomiting. Seek medical assistance, if a large quantity has been swallowed, or if there is difficulty swallowing or continued pain.
<b>Eye Contact</b>	Irrigate with water for 15 minutes immediately. If pain persists seek medical assistance.
<b>Skin Contact</b>	Wash off with plenty of water. Remove contaminated clothing and launder before using again.
<b>Inhaled</b>	Remove from exposure to a well-ventilated area. Keep warm and at rest. In emergency situations, if breathing is abnormal or difficult give oxygen. If the affected person suffers a cardiac arrest commence cardio-pulmonary resuscitation immediately. Seek urgent medical attention.
<b>First Aid Facilities</b>	Ensure drinking water and eye wash bottles are available when Urea based fertilisers are in regular use.
<b>Advice to Doctor</b>	Treat symptomatically



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## PRECAUTIONS FOR USE

<b>Exposure standards</b>	There are no specific exposure limits available. Recommended ACGIH value for airborne concentrations of dust particles TLV/TWA -10mg/m <sup>3</sup> Nuisance dust.
<b>Engineering controls</b>	Use well ventilated areas. Avoid high dust concentrations.

## PERSONAL PROTECTION

<b>Respirator type (AS 1716)</b>	Avoid inhaling the dust by wearing class P2 type dust mask when necessary.
<b>Eye protection</b>	Chemical safety glasses can be worn to help prevent contact with the eyes.
<b>Glove type</b>	PVC gloves can be worn to prevent skin contact.
<b>Clothing</b>	Long sleeve shirt buttoned to the top and long trousers to help prevent skin contact.
<b>Personal Hygiene</b>	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

<b>Fire Hazards</b>	Urea based fertilisers are not flammable and do not support combustion.
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## SAFE HANDLING INFORMATION

### STORAGE & TRANSPORT

<b>Location</b>	Store in a well ventilated, cool and dry area. Contact with moisture must be avoided for it can cause handling difficulty. Ensure machinery is cleaned thoroughly after use, do not leave in machinery overnight.
<b>Storage incompatibilities</b>	Store away from oxidizing agent, alkalis, nitrates, hypochlorites, metallic powders, strong acids and permanganates.
<b>Dangerous Goods class</b>	No Dangerous Goods Class Allocated
<b>Subsidiary Risk</b>	No Subsidiary Risk Allocated
<b>Special Transport Requirements</b>	Keep away from oxidizing agent, alkalis, nitrates, hypochlorites, metallic powders, strong acids and permanganates.



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SPILLS AND DISPOSAL	
<b>Minimising Spill / leak</b>	Spills should be swept and cleaned up immediately. Prevent run off into water ways and drainage systems.
<b>Clean Up Methods</b>	Depending on the size of the spill, clean up will involve sweeping up and loading into a truck or container. All material should be gathered up and disposed of.
<b>Precautions for Clean Up Crew</b>	Clean Up crew should wear P2 type dust masks, PVC gloves, chemical safety goggles and long sleeve shirts and trousers.
<b>Specialised Equipment for Clean Up</b>	Depending on the size of the spillage, a front end loader may be required for clean up.

FIRE AND EXPLOSION HAZARD	
<b>Hazards of use / storage</b>	When Urea based fertilisers and halogens such as chlorine are mixed together a spontaneously explosive reaction could occur. Such as swimming pool chlorine, for example calcium hypochlorite and sodium hypochlorite. When urea and strong alkalis are mixed together ammonia gas may be released.
<b>Dangerous Decomposition or Combustion Products</b>	When heated to decomposition, oxides of nitrogen may be released. If mixed with swimming pool chlorine, for example calcium hypochlorite and sodium hypochlorite, a spontaneously explosive mixture could result.
<b>Fire Fighting recommendations</b>	Urea based fertilisers are not combustible.
<b>Types of Extinguishers</b>	Urea based fertilisers are not combustible.
<b>Fire Fighting Agents</b>	Urea based fertilisers are not combustible.
<b>Hazchem Code</b>	No Hazchem Code allocated for Urea based fertilisers.

## OTHER INFORMATION

No Other Information available.

## 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



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procedures are required to take the appropriate safety precautions, the handler can contact Whitfert on (08) 9419 9999.