BAILEYS FERTILISERS
AKC Pty Ltd trading as
A.B.N: 30 008 747 911

SAFETY DATA SHEET

PRODUCT NAME: **UREA**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Other names: Carbamide, Carbonyl Diamide, Carbonyldiamine

Recommended use: Fertiliser
Supplier: Baileys Fertilisers
Address: 24 Beach St
Kwinana Beach
Western Australia 6167
Telephone: (08) 9439 1688 (Monday to Friday: 8.00am – 5.00pm)
Emergency Contact: Poisons Information Centre on 13 11 26
Facsimile: (08) 9439 1068
Email: baileys@baileysfertiliser.com.au
Website: baileysfertiliser.com.au

2. HAZARD IDENTIFICATION

1. GHS Classification: Not classified as hazardous according to Australian Criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

2. Signal Word: N/A

3. Hazard Category(s): N/A

4. Hazard Symbol: N/A

5. Hazard Statement(s): N/A

6. Precautionary Statements: N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Contents % $^{w}/_{w}$
Urea	57-13-6	> 98.5%
Impurities	N/A	Remainder

4. FIRST AID MEASURES

Eye Contact: If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Skin Contact: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Inhalation: If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Ingestion: For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

First aid facilities: No specific requirement.

Medical Attention and Special Treatment: Treat symptomatically. See section 11 for more detailed information on health effects and symptoms.

SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable.

Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Fire/Explosion Hazard: May evolve toxic gases (carbon/nitrogen oxides, ammonia, hydrocarbons) when heated to decomposition.

Advice for Firefighters: Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including self-contained breathing apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Hazchem Code: None allocated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Ventilate area where possible.

Environmental precautions: Prevent product from entering drains and watercourses.

Methods of cleaning up: Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust.

Reference to other sections: See sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Before use, carefully read the product label. Use of safe working practices are recommended to avoid eye or skin contact and inhalation. Observe good person hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well ventilated area, removed from moisture, incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills.

Specific end use(s): No information provided.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure standards: No exposure standards have been entered for this product.

Biological limits: No biological limit values have been entered for this product.

Exposure controls

Engineering controls: Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

PPE:

Eye / Face	Wear dust-proof goggles.
Hands	Wear PVC or rubber gloves.
Body	When using large quantities, or where heavy contamination is likely, wear coveralls.

Respiratory Where an inhalation risk exists, wear a respirator of type P1 (Particulate).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White granular solid
Odour	Slight ammoniacal odour
Flammability	Non flammable
Flash Point	Not relevant
Boiling Point	Not available
Melting Point	133°C
Evaporation Rate	Not available
pH	7.0 – 8.0 (10% solution)
Vapour density	Not available
Density	Approx. 0.7 kg/L
Solubility (water)	Soluble in water
Vapour pressure	Not available
Upper explosion limit	Not relevant
Lower explosion limit	Not relevant
Partition coefficient	Not available
Autoignition temperature	Not available
Decomposition temperature	> 135°C
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
Odour threshold	Not available

10. STABILITY AND REACTIVITY

Reactivity: Carefully review all information provided in sections 10.2 to 10.6

Chemical stability: Stable under recommended conditions of storage.

Possibility of hazardous reactions: Polymerization will not occur.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials: Incompatible with oxidising agents (e.g. hypochlorites). Also incompatible with sodium nitrite and potassium nitrite. Can react with hypochlorites to form explosive nitrogen trichloride. Product is hygroscopic (absorbs moisture from the air).

Hazardous decomposition products: May evolve toxic gases (ammonia, carbon / nitrogen oxides, hydrocarbons) when heated to decomposition.

SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

Low toxicity. Under normal conditions of use, adverse health effects are not anticipated. This product is generally considered to be of low toxicity. Use safe work practices to avoid eye contact, prolonged skin contact and dust generation – inhalation.

Ingestion: Low toxicity. Ingestion of large quantities may result in gastrointestinal irritation, nausea, and vomiting. Ingestion of large quantities may result in dizziness, drowsiness, excessive urine, weakness and confusion.

Skin: Irritant. Contact may result in irritation, redness, pain and rash.

Eye: Irritant. Contact may result in irritation, lacrimation, pain and redness.

Inhalation: Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.

Toxicological Data: UREA (57-13-6)

LD50 (ingestion)	8471 mg/kg (rat)
LD50 (intraperitoneal)	> 5000 mg/kg (rat)
LD50 (intravenous)	4600 mg/kg (mouse)
LD50 (subcutaneous)	8200 mg/kg (rat)
LDLo (intraperitoneal)	6608 mg/kg (mouse)
LDLo (intravenous)	4800 mg/kg (rabbit)
LDLo (subcutaneous)	3000 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information.

Persistence and degradability: No information.

Bioaccumulative potential: No information.

Mobility in soil: No information available.

Other adverse effects: Avoid contamination of waterways. Fertilisers, particularly those containing nitrogen and / or phosphorus, can stimulate weed and algal growth in static surface waters. Nitrogen fertilisers may contain or form nitrate which can contaminate surface and ground water. High nitrate concentrations may render the water unsuitable for human and livestock consumption.

13. DISPOSAL CONSIDERATIONS

Disposal: Ensure product is covered with moist soil to prevent dust generation and dispose of to approved Council landfill. Contact the manufacturer / supplier for addition information if required. Dispose of in accordance with relevant local legislation.

SAFETY DATA SHEET

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG or IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG)	AIR TRANSPORT (IATA / ICAO)
UN Number	None allocated.	None allocated.	None allocated.
Proper Shipping Name	None allocated.	None allocated.	None allocated.
Transport Hazard Class	None allocated.	None allocated.	None allocated.
Packing Group	None allocated.	None allocated.	None allocated.
Hazchem Code	None allocated.	None allocated.	None allocated.

15. REGULATORY INFORMATION

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.

The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substance [NOHSC: 1008(2004)].

AICS All chemicals listed on the Australian Inventory of Chemical Substances (ACIS).

16. OTHER INFORMATION

Disclaimer This document has been prepared by Baileys Fertilisers and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue.

While Baileys Fertilisers has taken all due care to include accurate and up to date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Baileys Fertilisers accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

As the use of the products described in this document is outside the control of Baileys Fertilisers, we make no representation or warranty concerning the suitability or fitness of this product for any purpose. It is your sole responsibility to ensure that the product will have the qualities and attributes that will make them fit for any ordinary or special purpose required of them, even if that purpose is made known to us at any time. This includes responsibility on your part to conduct in a timely manner all appropriate tests and quality checks on the product and any goods made from them. We disclaim any liability if any products are not suitable or fit for any such purpose.

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End of SDS