

Section 1 - Identification of the Material and Supplier

Chemical nature: Nitrogenous fertiliser
Trade Name: Urea Lo Bi
Product Use: Fertiliser
Supplier: Australian Agribusiness (Holdings) Pty Ltd
Suite 201, Level 2, 3 Rider Boulevard, Rhodes NSW 2138
Phone: 02 9395 1200 (office hours)
www.aus-ag.com.au

This version issued: June 2025 and is valid for 5 years from this date.
Poisons Information Centre: Phone 13 1126 from anywhere in Australia

Section 2 - Hazards Identification

Statement of Hazardous Nature

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia (SWA).

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.

GHS Signal word: NONE. Not hazardous.

Hazard Statements

Not Hazardous - No criteria found.

Precautionary Statements

- P102: Keep out of reach of children.
- P262: Do not get in eyes, on skin, or on clothing.
- P280: Wear protective glove/protective clothing/eye protection/face protection.
- P353: Rinse skin with water/shower.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P370+P378: Not combustible. Use extinguishing media suited to burning materials.
- P402+P404: Store in a dry place. Store in a closed container.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 - Composition/Information on Ingredients

Chemical Characterisation: Mixtures

Description: Mixture of non-hazardous substances below.

<u>Ingredients</u>	<u>CAS No</u>	<u>EC Number</u>	<u>%</u>
Urea	57-13-6	200-315-5	100

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4 - First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical advice if breathing problems develop.

Skin Contact: In case of skin contact, remove contaminated clothing and wash affected areas with water and soap. Seek medical advice if irritation develops and persists.

Eye Contact: In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical advice if irritation persists.

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.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestions: may cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

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Section 5 - Fire Fighting Measures

Specific Hazards Arising from the Chemical: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. This will only occur after heating to dryness. Product is not flammable.

Hazardous combustion products include oxides of nitrogen, ammonia, sulphur compounds and various, unidentified, potentially toxic fumes. Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers. Minimise run-off from fire fighting entering drains or water courses.

Suitable Extinguishing Media: Use fire extinguishing media suited to surrounding conditions.

Special Protective Equipment and Precautions for Fire Fighters: When fighting a major fire wear self-contained breathing apparatus and protective equipment.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid dust generation.

Environmental precautions: In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up: Pick up large pieces and clean up small pieces and dusts with a vacuum or by a wet sweeping technique. Do not use compressed air. The label prevails if conflict between label and SDS.

Section 7 - Handling and Storage

Precautions for Safe Handling: Before use, read the product label, including sections on "Safety Directions" and "Care of Equipment". Use safe work practices. Avoid eye or skin contact and dust inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing before storage or re-use. Provide eye wash fountains and safety showers in close proximity to points of potential exposure. Check Section 8 of this SDS for details of personal protective measures.

Conditions for Safe Storage: Store in a cool, dry and well-ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, acids, hypochlorites and alkalis.

Section 8 - Exposure Controls and Personal Protection

Exposure controls

No exposure standards have been entered for this product

PPE

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715 and 1716**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Engineering Controls: Natural ventilation should be adequate under normal use conditions.

Eye and Face Protection: Eye and face protectors for protection against dust. See above AS/NZS standards for more information.

Skin Protection: Skin protection is not required under normal use conditions. For prolonged or repeated contact, use protective gloves. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered. See above AS/NZS standards for more information.

Protective Material Types: Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See above AS/NZS standards for more information.

Respirator Protection: Respiratory protection is not usually required under normal use conditions. Where an inhalation risk exists, wear approved particulate respirator (filter type P). See above AS/NZS standards for more information.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	White Granules or prills
Odour:	Odourless.
Odour Threshold:	No information available.

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pH-Value:	9.1 (10% solution).
Freezing Point/Melting Point:	No information available.
Initial Boiling Point/Boiling Range:	Not relevant.
Flash point:	Not applicable.
Flammability (solid, gas):	Product is not flammable.
Autoignition temperature:	> 133°C
Decomposition Temperature:	No information available.
Explosion Limits:	
Lower:	No information available.
Upper:	No information available.
Vapour Pressure:	Negligible at normal ambient temperatures.
Vapour Density:	No information available.
Density:	1.33
Solubility in Water:	1050g/L @ 20°C.
Evaporation Rate:	No information available.
Partition Coefficient (n-octanol/water):	No information available.

Section 10 - Stability and Reactivity

Possibility of Hazardous Reactions: No hazardous reactions known under conditions of normal use.

Chemical Stability: Stable at ambient temperatures and under normal conditions of storage and use.

Conditions to Avoid: Heat, sparks open flames and other sources of ignition.

Incompatibilities: No information provided.

Hazardous Decomposition Products: Oxides of nitrogen, ammonia, sulphur compounds and various, unidentified, potentially toxic fumes.

Polymerisation: This product is unlikely to undergo polymerisation processes.

Section 11 - Toxicological Information

Toxicity:

Acute Health Effects

Inhalation: May cause respiratory irritation.

Skin: May cause skin irritation.

Eye: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

Skin Corrosion/Irritation: Based on classification principles, the classification criteria are not met.

Serious Eye Damage/Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity: Based on classification principles, the classification criteria are not met.

Reproductive Toxicity: Not classified as a reproductive toxin.

Specific Target Organ Toxicity (STOT) – Single Exposure:

Over exposure may result in irritation of the nose and throat, with coughing.

Specific Target Organ Toxicity (STOT) – Repeated Exposure:

Over exposure may result in irritation of the nose and throat, with coughing

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available.

Existing Conditions Aggravated by Exposure: No information available.

Section 12 - Ecological Information

Ecotoxicity:

Aquatic toxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and Degradability: Urea is considered to be readily biodegradable.

Bioaccumulative Potential: Bioaccumulation unlikely due to very low Log Kow value.

Mobility in soil: Urea is transformed in the soil, firstly to ammonium, and then to nitrate. Both ammonium and nitrate are taken up by plant roots. Ammonium is absorbed onto and held tightly on the surface of soil colloids (clay and organic matter). Nitrate is more mobile and is subject to leaching. This is more likely to occur on sandy soils and in high rainfall areas.

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Other adverse effects: Avoid spills and contamination of waterways. Nitrogen fertilisers contain or form ammonium and nitrate. Nitrate is susceptible to leaching and may contaminate groundwater. High nitrate concentrations may render water unsuitable for human and livestock consumption. Depending on the concentration and species, ammonium may be toxic to fish. Elevated nitrogen concentrations in static surface waters can stimulate weed and algal growth. Algae affect water quality and taste.

Section 13 - Disposal Considerations

Waste Disposal: Ideally the fertiliser should be used for its intended purpose. Beneficial reuse is the preferred disposal option.

For fertiliser that is physically degraded but not contaminated in any way, this may necessitate using different application equipment and methods to apply it.

If the fertiliser is contaminated with other fertilisers, soil, or other non-harmful substances, and it can be satisfactorily applied, use it for its nutrient value in pasture, crops or on a recreational area e.g. lawns and parks.

Special Precautions for Landfill or Incineration: Please consult your state Land Waste management Authority for more information.

Section 14 - Transport Information

UN Number: Not regulated.

Proper Shipping Name: Not regulated.

Dangerous Goods Class: Not regulated.

Packing Group: Not regulated.

Section 15 - Regulatory Information

Australian Inventory of Industrial Chemicals: All components are on the inventory or in compliance with the inventory.

Standard for the Uniform Scheduling of Medicines and poisons (SUSMP) – Poison Schedule:

Not a scheduled poison.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail	IMDG	International Maritime Dangerous Good
AIIC	Australian Inventory of Industrial Chemicals	IMSBC	International Maritime Solid Bulk Code
CAS number	Chemical Abstracts Service Registry Number	NTP	National Toxicology Program (USA)
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire-fighters	SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
IARC	International Agency for Research on Cancer	SWA	Safe Work Australia (formerly ASCC and NOHSC)
IATA	International Air Transport Authority	UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (June 2023) and GHS Revision 7

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