



# SAFETY DATA SHEET

Version 1.0  
Issue Date: 27 June 2022

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## 1. Substance and Supplier Identification

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<b>Product Name:</b>	Urea
<b>Other Names:</b>	Carbamide, Carbonyldiamide
<b>Supplier:</b>	Morton Smith-Dawe Ltd 396 Wigram Road Halswell Christchurch, New Zealand P.O Box 37-139 Halswell, Christchurch
<b>Customer Centre:</b>	(03) 322 8117
<b>Recommended Use:</b>	Fertiliser
<b>In Case of Emergency Contact:</b>	
National Poisons Centre:	0800 POISON (0800 764 766)
Transport Emergency:	111 – Tell operator what service is needed: Fire, Ambulance or Police.

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## 2. Hazard Identification

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### New Zealand Hazardous Substances Classification:

This product is classified as hazardous according to criteria in the New Zealand Hazardous Substances (Hazard Classifications) Notice 2020.

Refer to Section 15 for HSNO Approval Number.

This product is not a Dangerous Goods for Transport. Refer to Section 14 for details.

### Classification and Statements:

GHS Classification: Eye Irritation, Category 2

HSNO Classification: 6.4A eye irritant

### Labelling Elements:

Hazard Statements:

H319 Causes serious eye irritation

Signal Word: WARNING

GHS Pictograms:



PREVENTION STATEMENTS:

P103 – Read carefully and follow all instructions.

P264 - Wash hands, exposed skin, thoroughly after handling.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

RESPONSE STATEMENTS:

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice/attention.

STORAGE STATEMENTS:

None

DISPOSAL

P501 - In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Dispose of via an approved waste disposal contractor. Refer to Section 13 of the SDS.

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### 3. Composition/ Information on Ingredients

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Single Substance:

Main Component	CAS Number	Concentration (% wt)
Urea	57-13-6	99-100 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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### 4. First Aid Measures

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**Workplace Facilities Required:**

Eye wash facilities should be provided where bulk quantities are handled or stored.

<b>If Inhaled:</b>	Remove to fresh air. Seek medical attention if symptoms persist.
<b>In Contact with Eye:</b>	Hold eyes open, flush continuously with water for at least 15 minutes. Seek medical attention if irritation develops and persists.
<b>In Contact with Skin:</b>	Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.
<b>If Swallowed:</b>	DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.
<b>Advice to Doctor:</b>	Treat symptomatically.

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## 5. Fire Fighting Measures

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<b>Fire/Explosion Hazard:</b>	Product is not flammable or combustible. Avoid contamination with oxidising agents as this may cause violent decomposition and detonation/ignition.
<b>Suitable Extinguishing Media:</b>	Use extinguisher suitable for surrounding fire.
<b>Precautions in Connection with Fire:</b>	May give off toxic and/or corrosive fumes in a fire, containing nitrogen and carbon oxides. In a fire situation urea will melt and flow and may decompose to release ammonia gas which is flammable.
<b>Advice for firefighters:</b>	Wear full firefighting gear and self-contained breathing apparatus.

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## 6. Accidental Release Measures

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<b>Personal Precautions:</b>	Avoid contact with eyes. Avoid generating dust. For large spills, emergency responders must use personal protective equipment, including gloves, protective clothing and safety glasses with side shields or safety goggles. Respiratory protection may be required where there is inadequate ventilation and high dust concentrations. For small spills, wear eye protection and gloves.
<b>Spill Clean-Up Procedure:</b>	Contain the spill. Sweep up spills and place in a suitable, closable chemical waste container. Ensure waste container is properly labelled.
<b>Waste Disposal:</b>	Refer to Section 13.
<b>Emergency Preparation:</b>	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

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## 7. Handling and Storage

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<b>Handling:</b>	Avoid contact with eyes. Avoid generating dust. Do not eat, drink, or smoke, when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.
<b>Storage:</b>	Do not store near to food or feedstuffs. Store in a cool, dry, well-ventilated place.

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## 8. Exposure Controls and Personal Protection

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### Workplace Exposure Standards NZ:

Particulates, not otherwise specified, TWA 10 mg/m<sup>3</sup> (inspirable dust), 3 mg/m<sup>3</sup> (respirable dust)

<b>Engineering Controls:</b>	Eyewash facilities should be provided in the work area where there is a risk of exposure to eyes. For typical conditions of storage and use, natural ventilation should be adequate. In enclosed areas, mechanical ventilation may be required.
<b>Personal Protective Equipment:</b>	Avoid inhaling dust. Avoid contact with eyes.
<b>Hand protection:</b>	Wear protective gloves. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
<b>Skin and body protection:</b>	Use protective clothing. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
<b>Eye protection:</b>	Use safety glasses with side shields or safety goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
<b>Respiratory protection:</b>	Dust mask rated at least P1 if exposure to dust is low. For higher dust concentrations a P2 mask may be needed. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Other information:</b>	PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before eating or smoking. Handle in accordance with safe industrial hygiene practices.

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## 9. Physical and Chemical Properties

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<b>Description:</b>	Solid granules	<b>Colour:</b>	White
<b>Odour:</b>	Slight ammonia	<b>Odour Threshold:</b>	Not determined
<b>pH (20°C):</b>	Approx. 9 (10% solution)	<b>Solubility (water, 25°C):</b>	Soluble
<b>Melting Point:</b>	133°C	<b>Boiling point:</b>	Not determined

<b>Flammability:</b>	Non-flammable	<b>Flash Point (Closed Cup):</b>	(decomposes) Not applicable
<b>UEL/LEL:</b>	Not applicable	<b>Bulk Density:</b>	740 kg/m <sup>3</sup>
<b>Relative Density:</b>	1.34	<b>Vapour Density:</b>	Not determined
<b>Vapour pressure (at 25°C):</b>	<0.1 hPa	<b>Viscosity:</b>	Not applicable
<b>Decomposition Temp:</b>	133°C	<b>Autoignition Temp:</b>	Not applicable
<b>Octanol/Water Partition Coefficient:</b>	Not applicable	<b>Particle characteristics:</b>	Not available

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## 10. Stability and Reactivity

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<b>Stability:</b>	Stable under normal storage conditions.
<b>Reactivity:</b>	Reacts with incompatibles. May react violently with oxidisers resulting in detonation or ignition. Reacts with hypochlorites to form explosive nitrogen trichloride.
<b>Conditions to Avoid:</b>	Dust formation. Accumulation of large quantities of dust may result in a dust explosion. Strong heat.
<b>Incompatibility:</b>	Incompatible with oxidising agents, hypochlorites.
<b>Hazardous Polymerisation:</b>	Will not occur.
<b>Hazardous Decomposition:</b>	May form toxic fumes containing oxides of nitrogen and carbon, may decompose on heating and release ammonia gas.

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## 11. Toxicological Information

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### Acute Exposure

<b>Acute Toxicity:</b>	LD <sub>50</sub> oral > 2000 mg/kg LD <sub>50</sub> dermal > 2000 mg/kg LC <sub>50</sub> inhalation > 5 mg/L (dust)
<b>Inhalation:</b>	Inhalation of dust may cause mechanical irritation of respiratory tract, resulting in coughing, sneezing.
<b>Ingestion:</b>	Has diuretic effect. Ingestion of large quantities may cause vomiting, diarrhoea, abdominal cramps.
<b>Skin Contact:</b>	Not expected to be irritating to skin.
<b>Eye Contact:</b>	Eye irritant.
<b>Sensitiser:</b>	Not expected to be a respiratory or contact sensitiser.

### Chronic Exposure:

<b>Mutagen/Carcinogen/Reproductive Toxicant</b>	No chronic toxicity effects expected.
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**Specific Target Organ Systemic Toxicity:**

Not expected to be toxic to target organs or systems.

Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

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## 12. Ecological Information

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Ecotoxicity: Not expected to be ecotoxic. Avoid losses to the environment wherever possible.

Aquatic toxicity: LC<sub>50</sub> >100mg/l

Biodegradable: No data.

Bioaccumulative: No data.

Mobility: Product is soluble in water.

Ecotoxicity classification derived from data on ingredients.

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## 13. Disposal Considerations

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Disposal: Recycle where possible. Dispose of waste product via an approved waste disposal contractor.

Disposal of Packaging: Dispose of packaging via an approved waste disposal contractor. Consumer packaging may be disposed of via household waste.

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## 14. Transport Information

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This product is not classified as a Dangerous Good for transport in accordance with NZS5433:2020, IMDG or IATA.

Ensure transportation methods prevent leakage from packages and collapsing loads.

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## 15. Regulatory Information

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Group Standard Allocation: Fertilisers (Subsidiary Hazard) Group Standard 2020

HSNO Approval Code: HSR002571

NZ Inventory of Chemicals: All components are listed in the NZ Inventory of Chemicals

This substance triggers:

Location/Compliance Certificate	N/A
Certified Handler	N/A
Emergency Response Plan	N/A
Secondary Containment	N/A
Signage	N/A

This substance is not required to be Tracked. All workplace personnel

handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

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## 16. Other Information

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The information provided in this Safety Data Sheet relates only to the specific material designated herein. The information contained in this Safety Data Sheet is correct to the best of our knowledge.

This substance is approved under HSNO for use as a fertiliser.

SDS Created: 27 June 2022

Review Date: 27 June 2027

Reason for Revision: Compliance with EPA Hazardous Substances (Safety Data Sheets) Notice 2017. Update of classifications in accordance with EPA Hazardous Substances (Hazard Classifications) Notice 2020.

It is known that people have varying degrees of sensitivity to chemicals therefore this product should be used with caution.

The information compiled in this Safety Data Sheet has been taken from sources believed to be reliable by Morton Smith-Dawe Ltd and to represent the most up-to-date knowledge available at the date given in Section 16.

Morton Smith-Dawe Ltd assumes no liability for any damages related to the use or misuse of this substance.

**End of Safety Data Sheet**