



# **Safety Data Sheet**

UPDATED: 23 January 2020

# **Section 1: SUBSTANCE IDENTIFICATION & SUPPLIER**

Product Name:	Urea
Other Names:	Carbamide, Carbonyldiamide
Product Code:	4300000
Chemical Formula:	CO(NH <sub>2</sub> ) <sub>2</sub>
Recommended Use:	Fertiliser
Company Identification:	Morton Smith - Dawe Limited
Address:	396 Wigram Road, Halswell, Christchurch PO Box 37 - 139 Halswell
Customer Centre:	03 322 8117
National Poisons Information Centre:	0800 POISON ( 0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - Tell operator what service is needed: Fire, Ambulance or Police

# **Section 2: HAZARD IDENTIFICATION**

This substance is classified as Hazardous according to criteria in HS (Minimum Degrees of Hazard) Regulations 2001:

Pictograms	<u>•</u>
Signal Word:	WARNING KEEP OUT OF REACH OF CHILDREN

Hazard Classifications:	6.1D, 6.3B, 6.4A, 9.3C
Priority Identifiers:	WARNING KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers:	6.1D = Harmful if swallowed 6.3B = Causes mild skin irritation 6.4A = Causes eye irritation 9.3C = Harmful to terrestrial vertebrates

# **Section 3: COMPOSITION IDENTIFICATION**

INGREDIENT	CAS No.	CONTENT
Urea	57-13-6	99-100%

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# **Section 4: FIRST AID MEASURES**

Routes of Exposure:	
If in eyes:	Flush with plenty of water for several minutes, holding eyelids open if necessary. Remove contact lenses if present and easy to do. Seek medical advice
If on skin	Wash affected area thoroughly with soap and water
If Ingested:	Never give anything by mouth to an unconscious person. If swallowed rinse mouth, do NOT induce vomiting. Seek medical advice
If Inhaled:	Remove patient to fresh air and keep at rest in position comfortable for breathing. Seek medical assistance if effects persist.
First Aid Measures:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
Advice to Doctor:	Treat symptomatically.

# **Section 5: FIRE FIGHTING MEASURES**

Hazard Type	N/A (Non-flammable
Hazardous Combustion Products:	Ammonia, carbon oxides, nitrogen oxides
Extinguishing Media:	CO2, foam, dry powder, water – based on surrounding materials
Protective Equipment:	Breathing apparatus, goggles and protective gloves
HAZCHEM Code:	None allocated

# **Section 6: ACCIDENTAL RELEASE MEASURES**

#### Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8.

#### **Environmental precautions:**

Avoid unintended release of excessive amounts into waterways or sewers.

#### Methods and material for containment and cleaning up:

Wear appropriate protective clothing. Contain spill and sweep up. Collect and place in sealable containers. Avoid generating dust. Reuse or recycle where possible.

# **Section 7: HANDLING AND STORAGE**

Handling:	Avoid generating dusts, do not breathe dusts.
	Approved Handler: Not required Tracking: Not required Record Keeping: Not required
Storage:	Store in cool, dry, well-ventilated area.
Precautionary Statements:	Keep out of reach of children. Wash hands thoroughly after handling. Do not eat drink or smoke when using this product. Avoid unintended release to the environment

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# **Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

#### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

**Exposure Limits:** Workplace Exposure Standards (WES): Particulates not otherwise classified: Inspirable dust: 3mg.m<sup>-3</sup> Respirable dust: 25ppm (TWA) Ammonia 35 ppm (STEL) **Total Exposure Limit (TEL):** Not assigned **Personal Protection Equipment:** 







Wear particulate respirator where there is a risk of breathing in moderate to high levels of airborne dust. Eye wash facilities should be available.

Engineering Controls:	Handle in well ventilated area. Minimise generation of airborne dust
Hygiene Precautions:	Do not eat, drink or smoke when handling this product. Remove contaminated protective clothing and wash hands and face before meals and after work.

# **Section 9: PHYSICAL & CHEMICAL PROPERTIES**

Appearance:	White
Odour:	Slight ammonia smell
Odour Threshold:	Not Available
Format:	Granule
Specific Gravity:	1.34g/cm
Solubility in Water:	Very soluble
Flash Point:	Not Available
Bulk Density:	740 kg/m³
pH:	(100g.L <sup>-1</sup> in water, 20°C) ~9
Melting Point:	133°C
Boiling Point:	(Decomposes)
Vapour Pressure:	<0.1 hPa

# **Section 10: STABILITY & REACTIVITY**

Stability of Substance:	This product is stable under normal conditions.
Possibility of hazardous reactions:	Will not occur.
Hazardous Decomposition Products:	Ammonia, carbon oxides, nitrogen oxides. Produces biuret on heating.
Conditions to Avoid:	Strong heat.
Materials to Avoid:	Hypochlorites (e.g. bleach), nitrates, nitrites, strong oxidisers.

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#### **Section 11: TOXICOLOGICAL INFORMATION**

Hazard Classifications:	6.1D, 6.3B, 6.4A
Ingestion:	Has diuretic effect. Ingestion of large quantities may lead to nausea and vomiting.
Inhalation:	Slight irritant. Elevated exposure may result in mucous membrane irritation (nose & throat).
Skin:	Irritant. Prolonged may result in irritation itching and possible skin rash.
Eye:	Irritant. May cause lachrymation, irritation, pain & redness.
Chronic Effects:	Not anticipated
Other Information:	No adverse health effects expected under normal conditions.
Toxicity Data:	LD50 (oral, rat) 8471 mg/kg LD50 (dermal, rat) 8200 mg/kg

#### **Section 12: ECOLOGICAL INFORMATION**

Hazard Classifications:	9.3C
Ecotoxicity:	Avoid unintended release into streams and waterways.
Environmental Exposure Limit (EEL):	Not assigned.

#### **Section 13: DISPOSAL INFORMATION**

Disposal Method:	Observe any local authority restrictions that may apply. Collection into sealable containers and dispose of in an approved land fill. If practicable apply excess fertiliser at recommended rates to appropriate land.
Container Disposal:	Rinse containers thoroughly prior to reuse. Otherwise render unusable and dispose of as waste.

# Section 14: TRANSPORT INFORMATION

UN Number:	None allocated.
Proper Shipping Name:	Urea
DG Class:	None allocated.
Other Information:	No special transport requirements necessary.

#### **Section 15: REGULATORY INFORMATION**

EPA Approval Code:	Approved pursuant to the HSNO Act 1996, Approval number HSR002571
	See <u>www.epa.govt.nz</u> for approval controls.

#### **Section 16: OTHER INFORMATION**

This Safety Data Sheet was updated on the date shown and supersedes all previous versions.

#### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources 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. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have 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, TCC (NZ) Ltd accept 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. The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Morton Smith - Dawe, if further information is required.

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