

Safety Data Sheet

Urea (Nitrogen)



Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	Urea
Other Names:	Carbamide, Carbonyldiamide, Nitrogen
Chemical Formula:	CO(NH ₂) ₂
Product Code:	4300000
Recommended Use:	Fertiliser
Company Identification:	Hortigro Ltd
Address:	164 Manukau Road Pukekohe 2120
Customer Centre:	09 237 1777
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

Hazard Classifications:	Classified as Hazardous according to criteria in HS (Minimum Degrees of Hazard) Regulations 2001: 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



WARNING

Section 3: COMPOSITION INFORMATION

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

Section 4: FIRST AID MEASURES

First Aid Measures:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
Inhalation:	Remove patient to fresh air and keep at rest in position comfortable for breathing. Seek medical assistance if effects persist.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed rinse mouth, do NOT induce vomiting. Seek medical advice
Skin:	Wash affected area thoroughly with soap and water
Eye:	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
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flash Point:	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

Spills and Disposal:	Wear appropriate protective clothing. Contain spill and sweep up. Collect and place in sealable containers. Avoid generating dust. Reuse or recycle where possible.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental Precaution:	Avoid unintended release of excessive amounts into waterways or sewers

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

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits:	<p>Workplace Exposure Standards (WES): Particulates not otherwise classified:</p> <p style="text-align: right;">Inspirable dust 10mg.m⁻³ Respirable dust 3mg.m⁻³</p> <p style="text-align: right;">Ammonia 25ppm (TWA) 35 ppm (STEL)</p> <p>Total Exposure Limit (TEL): Not assigned</p>
Protective Equipment:	<p>Wear close fitting safety glasses or goggles to prevent dust getting in eyes. Ensure eye wash facilities should be available.</p> <p>Wear protective clothing and gloves where there is a risk of moderate to high skin contamination from product</p> <p>Wear particulate respirator where there is a risk of breathing in moderate to high levels of airborne dust</p>
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 AND CHEMICAL PROPERTIES

Appearance:	White
Format:	Granule
Odour:	Slight ammonia smell
Specific Gravity:	1.34g/cm
Solubility in Water:	Very soluble
Flash Point:	N/A
Bulk Density:	740 kg/m ³
pH:	(100g.L ⁻¹ in water, 20°C) ~9
Melting Point:	133°C
Boiling Point:	(decomposes)
Vapour Pressure:	<0.1 hPa

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Hazardous Polymerisation:	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.

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

Product Disposal:	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 Approved pursuant to the HSNO Act 1996

See www.epa.govt.nz for approval controls.

Section 16: OTHER INFORMATION

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

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.

Checked

Hazard Classification	EPA CCID	MXM
Identifiers	EPA CCID, Labelling of Hazardous Substances	MXM
Pictogram	EPA CCID, Labelling of Hazardous Substances	MXM