

Urea (prill or granular)

1: PRODUCT NAME, SUPPLIER INFORMATION AND EMERGENCY CONTACTS

Product Name: Urea

Other names: Carbamide, Carbonyl diamide, Carbonyldiamine

Chemical formula: $(\text{NH}_2)_2\text{CO}$

Recommended Use: Fertiliser

Company: Fert Wholesale Direct Ltd

Address: 205 Main Street, Mataura 9712

Contact Number: 021 0235 6491

National Poisons Information Centre: 0800 POISON (0800 764 766)

Emergency Telephone Number: 0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)

Transport Emergency Phone: 111 - tell operator what service is needed: Fire, Ambulance, Police

2: HAZARD IDENTIFICATION

Hazard Classifications: 6.1D, 6.3B, 6.4A, 9.3C

Priority Identifiers:

Harmful if swallowed.

Harmful if inhaled.

Causes serious eye irritation.

Harmful to terrestrial vertebrates.

Secondary Identifiers:

6.1D = May be harmful if swallowed, inhaled or absorbed through the skin.

6.3B = Causes mild skin irritation.

6.4A = Causes serious eye irritation.

9.3C = Harmful to terrestrial vertebrates.



WARNING

3: COMPOSITION INFORMATION

Urea 99-100% CAS No 57-13-6

4: FIRST AID MEASURES

Inhalation: Remove patient to fresh air and keep at rest in a position comfortable for breathing.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed rinse mouth seek medical advice. DO NOT induce vomiting.

Skin: Remove contaminated clothing then wash affected area thoroughly with soap and water.

Eye: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes.

First Aid Measures: Consult the national Poisons Information Centre on 0800 764 766

5: FIRE FIGHTING MEASURES

Flash Point: N/A (Non-flammable)

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.

6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear appropriate protective clothing. Contain and sweep up all spilled product and place in suitable container for disposal. Avoid generating dust. Exclude non-essential people from the area.

Environmental Precaution: Prevent from entering drains, waterways or sewers.

7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid generating dusts, do not breath dusts.

Approved Handler: Not required.

Tracking: Not required.

Record Keeping: Not required.

Storage: Store in dry cool ventilated area. Keep away from water and strong acids or bases.

Wash hands thoroughly after use. Do not eat, drink or smoke whilst using this product.

Keep out of reach of children

Avoid unintended releases to the environment

Use appropriate rated and designed lifting equipment when handling bulk bags.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits: Workplace Exposure Standards (WES): Particulates not otherwise classified:

Inspirable dust 10mg.m⁻³, Respirable dust 3mg.m⁻³

Ammonia 25ppm (TWA), 35 ppm (STEL)

Total Exposure Limit (TEL): Not assigned

Protective Equipment: Overalls, safety glasses and gloves. If dust is present wear dust mask and goggles. Eye wash facilities should be available.

Engineering Controls: Handle in well-ventilated area. If dust generated use local extraction to control. Avoid inhalation of dust.

Hygiene Precautions: Remove protective clothing and wash hands and face before meals and after work.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White granules.

Odour: Slight Ammonia smell

Specific Gravity: 1.34g/cm³

Bulk Density: 0.8kg/m³

pH: (100g.L⁻¹ in water, 20°C) ~9

Solubility in Water: Very soluble

Flash Point: N/A

Melting Point 133°C

Vapour pressure: <0.1 hPa

Vapour density: Not available

Boiling point: (decomposes)

Auto-ignition temperature: N/A

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.

Hygroscopic: No

11: TOXICOLOGICAL INFORMATION

ERMA 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 contact 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-1 (RTECS)

LD50 (dermal, rat) 8200 mg.kg-1(IUCLID)

12: ECOLOGICAL INFORMATION

ERMA Classifications: 9.3C

Ecotoxicity: Avoid unintended release into streams and waterways.

13: DISPOSAL INFORMATION

Product Disposal: Reuse or recycle where possible. If practicable apply as a fertiliser at recommended rates to appropriate land. Observe any local authority restrictions that may apply.

Bulk bag Disposal: Dispose of all bags in the appropriate manner.

14: TRANSPORT INFORMATION

UN Number: None Allocated.

Proper Shipping Name: Urea.

DG Class: None Allocated.

Other information: Not regulated for transport purposes.

15: REGULATORY INFORMATION

ERMA: Approved pursuant to the HSNO Act 1996, Approval number HSR002808

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

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

HSNO Approval Code: HSR002571

Classifications: Eye damage/irritation - Category 2. Hazardous to terrestrial vertebrates.

NZIOC: All hazardous ingredients are listed on the NZ Inventory of Chemicals.

This substance triggers:

Compliance Certificate	N/A
Certified Handler	N/A
Emergency Response Plan	N/A
Secondary Containment	N/A
Signage	10,000 kg

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.

16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as a fertiliser. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16.

No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

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