



Material Safety Data Sheet

MSDS No. 1048 Nitrogen Booster 500 gram

Product name	Nitrogen Booster 500 gram
Product code	NIT500
Manufacturer	Tui Products Ltd
Address	26 Hull Road Mount Maunganui, 3116 New Zealand
Phone	07 5752160
Fax	07 5758462
Recommended use	Fertiliser

1. Identification

Product Name: Urea

Other Name(s): Carbamide, Carbonyl diamide, Carbonyldiamine

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

Proper Shipping Name: None allocated

UN Number: None allocated

Recommended Use: As a fertiliser ingredient.

24 hrs Poisons Advice: National Poisons Centre ph. 0800 POISON / 0800 764 766

2. Hazard Identification

Statement of Hazardous Nature: Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001. **Hazard Classification:** 6.1D, 6.3B, 6.4A, 9.3C

WARNING

Hazard Statements

Harmful if swallowed.

Harmful if inhaled.

Causes serious eye irritation.

Harmful to terrestrial vertebrates.

3. Composition & Information on Ingredients

Ingredient CAS Number Proportion

Urea 57-13-6 99-100%

4. First Aid Measures

Response Statements

IF SWALLOWED : Rinse mouth, do NOT induce vomiting.

IF ON SKIN : Wash with plenty of soap and water.

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

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

Call a POISON CENTRE or doctor/physician if you feel unwell.

Never give fluids to an unconscious person.

Poisons & Hazardous Chemicals National Information Centre phone 0800 POISON / 0800 764 766 (24-hr)

5. Fire Fighting Measures

Non-flammable

Extinguishing media: CO₂, foam, dry powder, water **Combustion products:** Ammonia, carbon oxides, nitrogen oxides

Flash point: Not applicable

Flammability limits: Not applicable

Auto-ignition temperature: Not applicable



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HAZCHEM Code: None allocated

6. Spillage, Accidental Release Measures

Protect yourself and others from injury. Wear appropriate protective equipment (see section 8).
Collect and place in clean sealable containers.
Avoid generating dusts.

7. Handling & Storage

Precautionary Statements
Keep out of reach of children.
Do not breathe dust.
Wash hands thoroughly after handling.
Do not eat drink or smoke when using this product.
Avoid unintended release to the environment.

Safe Handling

Avoid generating dusts. Use only outdoors or in a well-ventilated area.

Storage

Store in sealed containers in cool, dry, well ventilated area.

8. Exposure Controls & Personal Protection

Exposure Standards

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

Inspirable dust 10mg.m⁻³

Respirable dust 3mg.m⁻³

Ammonia 25ppm (TWA)

35ppm (STEL)

Tolerable Exposure Limit (TEL): Not assigned

Engineering Controls

Ventilation: Use in well ventilated area. If dusts are generated use local extraction to control.

PPE

Respiratory: If dusts present wear dust mask.

Eyes/Face: Safety glasses. If dusts present wear goggles.

Skin: Overalls, gloves.

Eye wash facilities should be available.

Wash hands after working with substance.

9. Physical & Chemical Properties

Appearance: White granules

Odour: slight ammonia smell

pH: (100g.L⁻¹ in water, 20°C) ~9

Vapour pressure: <0.1 hPa

Vapour density: Not available

Boiling point: (decomposes)

Melting point: 133°C

Solubility (water): Very soluble

Specific gravity: 1.34 g.cm⁻³

Bulk density: 0.8 kg.m⁻³

Flash point: Not applicable

Auto-ignition temperature: Not applicable

10. Stability & Reactivity



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Stability: Stable under normal conditions.

Conditions to avoid: Strong heat.

Materials to avoid: Hypochlorites (e.g. bleach), nitrates, nitrites, strong oxidisers.

Hazardous decomposition products: Ammonia, carbon oxides, nitrogen oxides. Produces biuret on heating.

Hazardous polymerisation: Will not occur

Hygroscopic: No

11. Toxicological Information

Health Effects / Symptoms of Exposure

No adverse health effects expected under normal conditions.

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.

Eyes: Irritant. May cause lachrymation, irritation, pain & redness.

Ingestion: Has diuretic effect. Ingestion of large quantities may lead to nausea and vomiting.

Toxicological Data

LD₅₀ (oral, rat) 8471 mg.kg⁻¹ (RTECS)

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

12. Ecological Information

Environmental Exposure Limit (EEL): Not assigned Avoid washing excessive amounts into streams and waterways.

13. Disposal Considerations

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.

Containers: Rinse containers thoroughly prior to re-use. Otherwise render unusable, and dispose of as waste.

14. Transport Information

No special transport requirements necessary

Proper Shipping Name: None allocated

UN Number: None allocated

15. Regulatory Information

Exposure limits: (see sections 8, 12)

ERMA Approval : HSR002808

HSNO Controls

Refer *ERMA User Guide to Controls* for full details.

Location Certification: Not required

Tracking: Not required

Approved Handlers: Not required.

16. Other Information

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MSDS may be revised from time to time, please ensure you have a current copy.