



MATERIAL SAFETY DATA SHEET

PRODUCT: UREA

Date of Issue: July 2014

**NOT CLASSIFIED AS HAZARDOUS
ACCORDING TO WORKSAFE AUSTRALIA**

Manufacturer's Name and Address:

MANUTEC PTY LTD
30 Jonal Drive
Cavan SA 5094 Australia

Tel: +618 8260 2277
Fax: +618 8260 2399
Email: manutec@manutec.com.au

PRODUCT IDENTIFICATION

Product Trade Name:	Manutec Urea
Product Code:	MBP0200/FUREPRILHIBI
UN Number:	None assigned
Hazchem Code:	None assigned
Dangerous Goods Class:	None assigned
Subsidiary Risk:	None
Poisons Schedule:	None scheduled
Use:	Used as a fertiliser as a nitrogen source for lawns and other plants.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	White odourless or slight ammonia smell.
Boiling Point:	Decomposes.
Melting Point:	No data
Vapour Pressure:	No data
Specific Gravity:	1.34 kg/m ³
Relative Vapour Density:	No data
Flashpoint:	No data
Flammability Limits:	No data
Solubility in Water:	Very soluble.

INGREDIENTS

	<u>CAS No</u>	<u>Proportion</u>
Urea	57-13-6	98.5%
Biuret	108-19-0	1.5%

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- Personal Protection:** Observe good industrial hygiene practices. Wear appropriate protective clothing; long sleeve shirt, trousers, glasses, PVC gloves and dust masks. If there is a risk of inhalation hazard, wear a particular respirator, conforming to AS 1716 – 1982.
- Flammability:** Non-flammable.

SAFE HANDLING INFORMATION

- Storage and Transport:** Store in a cool, dry, shaded place away from combustible materials, foodstuffs, herbicides and fungicides. Not classified as a dangerous good.
- Spills and Disposal:** Clear all areas of unprotected personnel. Sweep up, avoid producing dust. All sweepings, including broken packages should be placed into an open head drum for reuse. Wash down with large quantities of water. Avoid contaminating sewers and watercourses.
- Fire/Explosion Hazard:** Not combustible, decomposition may give rise to toxic and noxious fumes. Decomposition fumes include ammonia and oxides of nitrogen. Advise Fire Brigade of the nature of the hazard. In fire, spray water on decomposing mass. Fight upwind if outdoors. Wear self contained breathing apparatus in enclosed spaces.
- Other Information:** Incompatible with Sodium Nitrite, Phosphorous Pentachloride and Nitrosyl Perchlorate. Acts as a refrigerant when mixed with water.
- Contact Point:** Research/Technical Officer
Manutec Pty Ltd
30 Jonal Drive
CAVAN SA 5094 Australia
Tel: +618 8260 2277
EMERGENCY ONLY: Poisons Information Centre
(24 hours) 13 1126

STATEMENT OF DISCLAIMER

This Material Safety Data Sheet has been developed according to Worksafe Australia/NOHSC Guidelines.

All information is as accurate and up-to-date as possible. Since Manutec Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application. Manutec Pty Ltd will not be responsible for damages of any nature resulting from use of or reliance upon the information.

No expressed or implied warranties are given other than those implied mandatorily by Federal, State or Territory Legislation.

HEALTH HAZARD INFORMATION

Acute:	Considered to be practically non harmful by all exposure routes. Nevertheless, as with any industrial chemical, ingestion, inhalation of dust/ vapours and prolonged or repeated skin contact should be avoided by good standards of industrial hygiene. Ingestion of small quantities non-toxic.
Swallowed:	Virtually non-toxic by ingestion. LD – Oral (rat) = 14300 mg/kg
Skin:	May cause irritation, if in contact with skin. Urea, in high concentrations, with prolonged contact, can actually reduce the keratin layer so it no longer offers protection and an occupational dermatitis results.
Eye:	May cause irritation.
Inhaled:	Inhalation of dust may cause respiratory irritation.
Chronic:	No information found to indicate that urea is a chronic health hazard.

FIRST AID

Swallowed:	Immediately rinse mouth with water. Induce vomiting using Ipecac (APF) if available; if not, put finger down throat. Seek medical advice immediately.
Eye:	Hold eyes open, flood water for 15 minutes and see a doctor.
Skin:	A small amount of skin contact is not normally harmful. Remove contaminated clothing and wash skin thoroughly. Wash with soap and water. Wash contaminated clothing before reuse.
Inhaled:	Remove from contaminated area – avoid becoming a casualty. Recovery is rapid after removal from exposure. Inhalation is not normally harmful.
Advice to Doctor:	Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards:	No exposure limits have been assigned to this product, but a limit of 10 mg/m ³ is recommended for an 8 hour working day, 40 hour working week. The TLV is the limit recommended by the supplier of this MSDS. The exposure limit is a TWA for an 8 hour day, 5 day week.
Engineering Controls:	Maintain airborne concentrations well below recommended exposure standard. No special ventilation required.