

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Flowfeed For Cattle Formula III

Other Names: Flowfeed For Cattle Formula 3

Recommended Use: Cattle Supplement for water medication, Fertiliser.

Supplier: GROW FORCE
 8A MURDOCH CIRCUIT, ACACIA RIDGE, QLD, 4110
 Grow Force is a Division of Ruralco Holdings Ltd
 A.B.N. 40 009 660 879
 Telephone: 07 3272 5343
 Fax: 07 3272 8574

Emergency Telephone: 07 3272 5343 - For general information during normal business hours.
 13 11 26 - Poisons Information Centre.

2. HAZARDS IDENTIFICATION

Contains urea phosphate, which forms phosphoric acid and urea in water.
 This product contains the equivalent of 12.7% phosphoric acid.

Hazard Classification: HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
 Classified as hazardous according to criteria of the NOHSC: Irritant (Xi).

Risk Phrase(s): R36/38 - Irritating to eyes and skin.

Safety Phrase(s): Keep out of reach of children.
 Avoid contact with eyes and skin.

Swallowed: Swallowing may cause nausea, vomiting, and abdominal pain.

Eye: Irritating to eyes.

Skin: Irritating to skin. No effect should occur if promptly washed off.

Inhaled: Dust may be irritating to nose and throat.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS No.	Proportion
Urea (non-hazardous)	57-13-6	>60%
Urea phosphate	4861-19-2	10-<30%
Ammonium sulphate (non-hazardous)	7783-20-2	10-<30%

4. FIRST AID MEASURES

Swallowed: Rinse mouth and give plenty of water to drink. Do NOT induce vomiting. If vomiting occurs give further water. Seek medical advice.

Eyes: Hold eyes open, immediately flood with water for 15 minutes. Seek medical advice.

Skin: Wash with soap and water. Remove contaminated clothing. Clothing may be re-used following laundering.

Inhaled: Remove from exposure. If symptoms persist, seek medical advice.

Notes to physician: Treat symptomatically.
 Treatment of urea poisoning in ruminants: Vinegar (acetic acid) can be administered at high dose rates (2 to 4 litres as a guide for cattle), repeating the treatment if necessary.

MATERIAL SAFETY DATA SHEET

5. FIRE FIGHTING MEASURES

Specific hazards: Non-combustible material.

Hazards from combustion products: Decomposition may give rise to toxic and noxious fumes.

Special protective precautions and equipment for fire fighters: Wear self-contained breathing apparatus (SCBA).
For fires involving this material, use any means suitable for extinguishing surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: Wear protective equipment to prevent skin and eye contamination. Avoid breathing dust.

Methods and materials for containment and clean up: Sweep up and store in properly labelled containers for disposal or re-use. Avoid generating dust. Dispose of in compliance with State Land Management Authority requirements.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes and skin. Avoid breathing in dust.

Conditions for safe storage: Store in a cool dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards: No exposure standard allocated.
Exposure limit for phosphoric acid: TWA (8hr) = 1mg/m³
STEL (15min) = 3mg/ m³

Exposure standard for urea as nuisance dust: TWA (8hr) = 10mg/m³

Biological limit values: No biological limit allocated.

Engineering controls: Maintain adequate ventilation.

Personal protective equipment: Skin Protection: Wear loose comfortable clothing. Wear PVC or rubber gloves AS 2161. Wash work clothes regularly.
Eye Protection: Goggles (As 1336 and AS/NZS 1337) should be worn if there is a risk of eye contamination.
Respiratory Protection: If dust is generated, wear a respirator conforming to AS/NZS 1715 and 1716.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Mixture of white or off-white granules and crystals

Odour: Ammoniacal

pH: Acidic

Vapour Pressure: Not applicable

Vapour Density: Not applicable

Boiling Point: Not applicable

Melting Point: Not determined

Solubility in Water: 100%

Bulk Density: Not determined

Flammability: Not flammable

MATERIAL SAFETY DATA SHEET**10. STABILITY AND REACTIVITY**

Chemical stability: Stable under normal conditions of use.
Incompatible materials: Bases, oxidising and reducing agents.
Hazardous decomposition products: Decomposition during fire may give rise to toxic and noxious fumes. Wear self-contained breathing apparatus (SCBA).

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this safety data sheet and the product label. Symptoms that may arise if this product is mishandled are:

Ingestion: Swallowing can result in nausea, vomiting, diarrhoea, and abdominal pain.

Eye contact: Irritating to eyes.

Skin contact: Irritating to skin.

Inhalation: Inhalation of dust may result in respiratory irritation.

Long term effects: No information available.

Acute and chronic toxicity: Not determined for this product.

Toxicological data for urea: Oral LD50 (rat): 8471 mg/kg.

Toxicological data for urea phosphate: Oral LD50 (mouse): 5840 mg/kg.

Urea can be toxic to livestock, pets and wildlife. As little as 0.25 g/kg live weight can kill cattle not previously adapted to it. Avoid ingestion and clean up spills promptly. Avoid contamination of drinking water.

Should accidental poisoning of livestock occur, vinegar (acetic acid) needs to be administered at quite high dose rates (as a guide: 2 to 4 litres for cattle), repeating the treatment if necessary. The vinegar makes the ruminal contents more acidic and delays the uptake of ammonia by the blood. The acidic nature of Flowfeed For Cattle Formula III should also assist.

Death from urea poisoning is rapid (generally within 2 hours of ingestion of the urea) and often by the time symptoms appear (severe abdominal pain, shivering, excessive salivation, rapid breathing, unstable gait, bellowing and bloat), it is too late. To have any chance of being effective, treatment must be quick.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority.

14. TRANSPORT INFORMATION

Not classified as a Dangerous Good under the ADG Code.

15. REGULATORY INFORMATION

Poisons Schedule Number: None Allocated.

MATERIAL SAFETY DATA SHEET**16. OTHER INFORMATION**

Date of Revision: 19th March 2004.

Note: The information contained in this publication is by way of general comment only. Because conditions of use, suitability of product and application conditions are beyond the control of Grow Force, this publication is not and does not purport to offer particular advice in respect of any product. The authors and Grow Force hereby expressly disclaim any liability to any person, property or thing in respect of any of the consequences of anything done or omitted to be done by any person in reliance, whether wholly or in part, upon the whole or any part of the contents of this publication.