

Section 1: Identification of the Substance or Mixture and of the Supplier

Product name	Those Gro-More Fertigation products listed below are covered by the information in this Safety Data Sheet: 3-18-27 Blossom Booster 17-8-14 Growing 20-2-26 Potash Special 20-9-17 GP 28-4-8 Hi N
Recommended use	Fertilisers for flowering crops and general use.
Company details	AgriNova (New Zealand) Limited
Address	15 Sunlight Grove Porirua New Zealand
Telephone number	+64 4 237 0905
Email	grochem@grochem.co.nz
Emergency telephone number	New Zealand 0800 CHEMCALL –24 hours (0800 243 6225) Australia 1800 127 406 Other locations +64 3 353 0199 or The National Poisons Centre 0800 POISON (0800 764 766)
Date of preparation	1 May 2007

Keep out of reach of children.

Read Label and Safety Data Sheet completely before using these products. Do not use until all safety directions have been read and understood.

Section 2: Hazards Identification

Hazard classification

Dangerous Goods (Transport) Dangerous Goods Class 5.1, packing group III

Hazardous Substances (HSNO) 5.1.1C (WARNING: May intensify fire; oxidiser)
 6.1D (WARNING: Harmful in contact with skin, if inhaled or swallowed.)
 6.3B (WARNING: Causes mild skin irritation.)
 6.4A (WARNING: Causes eye irritation.)
 6.8B (WARNING: May cause damage to reproductive organs)
 9.3C (Harmful to terrestrial vertebrates)



Section 3: Composition/Information on Ingredients

Classification and type: Mixture		
Components vary between products – see label for specific content information		
Material	CAS No.	Proportion (%w)
Potassium Nitrate	7757-79-1	15-70
Urea	57-13-6	0-45
Boric Acid	10043-35-3	0.12
Other – Phosphates, Sulphates and trace elements	mixture	To 100%

Section 4: First Aid Measures

Symptoms of exposure

If Swallowed: Swallowing can result in nausea, vomiting, diarrhoea and abdominal pain
If in Eyes: Causes eye irritation.
If on Skin: Contact with skin may result in moderate irritation
If Inhaled: Inhalation of dust may result in respiratory irritation

First aid actions

If exposed or concerned: Get medical attention/advice.
 If medical advice is needed, have product container or label at hand

If Swallowed: Rinse Mouth. Call a POISON CENTRE or Doctor if you feel unwell. Do not induce vomiting.
If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
If on Skin: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice.
If Inhaled: Remove to fresh air and keep at rest in a position comfortable for breathing.

Workplace facilities Eyewash

Notes for medical personnel

Treat symptomatically

Section 5: Fire Fighting Measures

Type of hazard	May intensify fire due to oxidising nature.
HAZCHEM Code:	1Y
Combustion products:	Decomposition includes Oxides of Nitrogen, Phosphorus and Sulphur.
Extinguishing media & methods	Use media and methods appropriate to combustible material involved. Fertiliser is soluble in water. Waste water should be contained or diluted with large excess.
Recommended protective clothing	Fire-fighters to wear self-contained breathing apparatus

Section 6: Accidental Release Measures

Personal protection	See Section 8.3 for appropriate PPE
Containment and clean up	Contain and collect spillage. Dispose of contaminated material at an approved landfill or use as prescribed on the label.
Special requirements	See Section 13 for instructions for the disposal of waste/contaminated material.

Section 7: Handling and Storage

Subsection 1: Handling	
Handling practices	Wear appropriate PPE as detailed in Section 8.3. Avoid breathing dust or spray. Keep away from heat/sparks/hot surfaces/open flame - No Smoking.
Subsection 2: Storage	
Store site requirements	Store locked up in a cool dry place away from clothing, other combustibles and foodstuffs. Sites holding or using 1000kg or more of this product should hold a Hazardous Substance Test certificate.
Packaging	UN Packing group III. It is preferable to keep stored in original packaging.

Section 8: Exposure Controls/Personal Protection

Subsection 1: Workplace Exposure Guidelines (may also be considered in section 2)

Workplace exposure standards

No exposure standards have been set for this substance

Subsection 2: Engineering Controls

Exposure control measures

Use only outdoors or in a well-ventilated area. Avoid generating and inhaling dust.
Use with local exhaust ventilation or while wearing dust respirator or air-supplied mask.

Subsection 3: Personal Protective Equipment (PPE)

Detail specifications for equipment

Wear eye/face protection gloves and protective clothing.

General hygiene

Do not eat, drink or smoke while using this product.
Wash contaminated clothing before reuse.
Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Off White Powder	pH (of solution)	Typically ~4.5
Odour	Distinctive	Boiling point (degC)	Not applicable
Specific Gravity (kg/L)	Not available	Freezing point (degC)	Not applicable
Solubility	Soluble in water	Flammability Information	Not flammable but increases intensity of fire

Section 10: Stability and Reactivity

Stability of substance Will decompose when heated (fire) or in contact with corrosives (Acid or Alkali).

Conditions to avoid Fire will be caused to burn with greater intensity.

Material to avoid Take precautions to avoid mixing with combustibles.

Hazardous decomposition products

Includes Oxides of Nitrogen, Phosphorus and Sulphur

Hazardous polymerization

Will not occur

Section 11: Toxicological Information
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Data and interpretation	Oral LD50(rabbit) for Potassium Nitrate: 1901mg/kg
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See Section 2 for general hazard information.

Section 12: Ecological Information

Potential Environmental Interactions

Designed as a fertiliser to aid plant growth. Concentrated or excessive release is likely to have a detrimental effect on the environment. No data is available.
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Section 13: Disposal Considerations,

Product disposal	Dispose of only by using in accordance with the label instructions or at an approved landfill.
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Container disposal	Render packaging incapable of holding product and dispose of at an approved landfill. Do not incinerate
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Section 14: Transport Information
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UN Number	1479	DG Class and Subsidiary Group	5.1
Proper Shipping Name	Oxidising Solid, NOS	Packing group	III
Common Name	Fertiliser containing nitrate	HAZCHEM Code	1Y
Special precautions	Do not carry on a passenger service vehicle Do not transport on the same vehicle as Class 1(explosive), 2.1(flammable gas), 2.3 (toxic gas) Use a segregation device if transporting with Class 3 (flammable liquid), 4 (flammable solid), 5.2 (Organic peroxide), 6.1 (toxic), 6.2 (infectious substance), 7 (radioactive) or 8 (corrosive)		

Section 15: Regulatory Information

Regulatory status	This substance is approved Pursuant to the HSNO Act 1996, under the Fertilisers – Oxidisers group standard.
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Trigger quantities – locations holding more than these quantities must adhere to the relevant requirements:

SDS must be available for:	1kg
Approved Handler	1000kg.
Signage	1000kg
Emergency response plan	5000kg
Location certificates	100kg use/manufacture 1000kg stored for transport.
Fire extinguishers	500kg (2 extinguishers)

Section 16: Other Information

Revision due: 1 May 2012

Additional information Directions for use are found on the product label.

Glossary:

ACVM	Agricultural Compounds and Veterinary Medicines (in relation to Group or Act 1997)
CAS	Chemical Abstract Services Number, used to uniquely identify chemical compounds
HSNO	Hazardous Substances and New Organisms (legislation 1996)
LD50	Lethal Dose to kill 50% of test animals/organisms
PPE	Personal Protective Equipment

This MSDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Gro-Chem, it is the user's responsibility to determine conditions of safe use of the product.