

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

Product name Gro-More Fertigation products (Class 5.1.1C):
9-13-20 Blossom Booster
14-11-19Orchid

Recommended use Fertigation fertilisers for flowering crops.

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 2 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)
 6.1E (WARNING: May be harmful if swallowed, in contact with skin or inhaled.)
 6.3B (WARNING: Causes mild skin irritation.)
 6.4A (WARNING: Causes eye irritation.)
 6.8B (WARNING: May cause damage to lungs)



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)
Boric Acid	10043-35-3	0.12
Nitrates		28-40
Other materials including Urea, Phosphates, Sulphates and trace elements		To 100%

Section 4: First Aid Measures

Symptoms of exposure

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

- 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 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 their oxidising nature.
HAZCHEM Code:	1Y
Combustion products:	Decomposition includes Oxides of Nitrogen, Phosphorus and Sulphur
Extinguishing media & methods	Use 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/open flame - No Smoking.
Subsection 2: Storage	
Store site requirements	Store locked up in a cool dry place away from foodstuffs, clothing and combustibles Sites holding for use 100kg or more (1000kg for transport) 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 and face protection and gloves.

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	Typical ~4.5 in solution
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 will intensify a 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

Data and interpretation Oral LD50(rabbit) for Potassium Nitrate: 1901mg/kg

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.

Section 13: Disposal Considerations,

Product disposal Dispose of only by using in accordance with the label instructions or at an approved landfill.

Container disposal Render packaging incapable of holding product and dispose of at an approved landfill. Do not incinerate

Section 14: Transport Information

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. HSR002570.

Trigger quantities – locations holding more than these quantities must adhere to the relevant requirements:

SDS must be available for:	3kg
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: 5 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.

-- End of Safety Data Sheet --