

## Blossom Bless™

## HAZARDOUS, NON-DANGEROUS GOODS

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

<b>Product name:</b>	Blossom Bless
<b>Recommended use:</b>	For the control of Fireblight
<b>Supplier:</b>	Grochem (AgriNova New Zealand Limited)
<b>Company No.:</b>	9429036821501
<b>Street Address:</b>	15 Sunlight Grove Porirua New Zealand
<b>Telephone:</b>	+64 4 237 0905
<b>Email:</b>	grochem@grochem.com
<b>Emergency telephone:</b>	New Zealand 0800 CHEMCALL - 24 hours (0800 243 6225)  Australia 1800 127 406 Other locations +64 4 917 9888  or The National Poisons Centre 0800 POISON (0800 764 766)

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of EPA New Zealand.

**HSNO Approval Code:** HSR001707



**Signal Word:** Danger

**Hazard Classifications:** Sensitisation - Respiratory - Category 1  
Sensitisation - Skin - Category 1  
Designed for Biocidal Action

**Hazard Statements:** H317 - May cause an allergic skin reaction.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H413 - May cause long lasting harmful effects to aquatic life.

**Prevention Precautionary Statements:** P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P261 - Avoid breathing dust, fume, gas, mist, vapours or spray.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing including eye/face protection and suitable respirator.  
P285 - In case of inadequate ventilation wear respiratory protection.

<b>Response Precautionary Statements:</b>	P101 - If medical advice is needed, have product container or label at hand. P302+P352 - IF ON SKIN: Wash with plenty of water and soap. P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P321 - Specific treatment (see product label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. P363 - Wash contaminated clothing before reuse.
<b>Storage Precautionary Statement:</b>	Not allocated
<b>Disposal Precautionary Statement:</b>	P501 - Dispose of contents/container in accordance with local, regional, national and international regulations.
<b>DANGEROUS GOOD CLASSIFICATION:</b>	Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

### 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Pantoea agglomerans P10c	-	2 x 10 <sup>11</sup> cfu/g
Ingredients determined to be Non-Hazardous	-	Balance

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

<b>Inhalation:</b>	Effects may be delayed. Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. Seek immediate medical advice.
<b>Skin Contact:</b>	Effects may be delayed. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.
<b>Eye contact:</b>	If in eyes wash out immediately with water. In all cases of eye contamination, it is a sensible precaution to seek medical advice.
<b>Ingestion:</b>	Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.
<b>PPE for First Aiders:</b>	Wear overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Notes to physician:</b>	Treat symptomatically. Effects may be delayed.

### 5. FIRE FIGHTING MEASURES

<b>Hazchem Code:</b>	Not applicable.
<b>Suitable extinguishing media:</b>	If material is involved in a fire use water fog (or if unavailable fine water spray), alcohol resistant foam, standard foam, dry agent (carbon dioxide, dry chemical powder).
<b>Specific hazards:</b>	Combustible material.
<b>Firefighting further advice:</b>	On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

<b>SMALL SPILLS:</b>	Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours or dust. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers or drums for disposal.
<b>LARGE SPILLS:</b>	Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of dust. Work up wind or increase ventilation. Cover with damp absorbent (inert material, sand or soil). Sweep or vacuum up but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
<b>Dangerous Goods - Initial Emergency Response Guide No:</b>	Not applicable

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid eye contact and skin contact. Avoid inhalation of dust.
<b>Storage:</b>	Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Keep container standing upright. Keep containers closed when not in use - check regularly for spills.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>National occupational exposure limits:</b>	No value assigned for this specific material by WorkSafe New Zealand.
<b>Biological Limit Values:</b>	As per the WorkSafe New Zealand the ingredients in this material do not have a Biological Limit Allocated.
<b>Engineering Measures:</b>	Natural ventilation should be adequate under normal use conditions.
<b>Personal Protection Equipment:</b>	OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR. Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted. Wear overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
<b>Hygiene measures:</b>	Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of dust. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form:</b>	Powder	<b>Solubility:</b>	Insoluble (Wettable)
<b>Colour:</b>	Yellow		
<b>Odour:</b>	Musty		

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	This material is thermally stable when stored and used as directed.
<b>Conditions to avoid:</b>	Bacteria are destroyed by heat
<b>Incompatible materials:</b>	Oxidising agents.
<b>Hazardous decomposition products:</b>	Oxides of carbon and nitrogen, smoke and other toxic fumes.
<b>Hazardous reactions:</b>	No known hazardous reactions.

## 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 or effects that may arise if the product is mishandled and overexposure occurs are:

### ACUTE EFFECTS

Inhalation:	Material may be an irritant to mucous membranes and respiratory tract. A respiratory sensitiser. Can cause possible allergic reactions.
Skin contact:	Contact with skin may result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.
Ingestion:	Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.
Eye contact:	May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

### ACUTE TOXICITY

Inhalation:	This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): LC50 > 5.0 mg/L for dust.
Skin contact:	This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw
Ingestion:	This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): LD50 > 2,000 mg/Kg bw
Corrosion/Irritancy:	Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.
Sensitisation:	Inhalation: this material has been classified as a Category 1 Hazard (respiratory sensitiser). Skin: this material has been classified as a Category 1 Hazard (skin sensitiser).
Aspiration hazard:	This material has been classified as not an aspiration hazard.
Specific target organ toxicity (single exposure):	This material has been classified as not a specific hazard to target organs by a single exposure.

### CHRONIC TOXICITY

Mutagenicity:	This material has been classified as non-hazardous.
Carcinogenicity:	This material has been classified as non-hazardous.
Reproductive toxicity (including via lactation):	This material has been classified as non-hazardous.
Specific target organ toxicity (repeat exposure):	This material has been classified as non-hazardous.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

<b>Acute aquatic hazard:</b>	This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients): > 100 mg/L
<b>Chronic aquatic hazard:</b>	This material has been classified as not hazardous for chronic aquatic exposure. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): >100 mg/L, where the substance is not rapidly degradable and/or BCF < 500 and/or log Kow < 4.
<b>Ecotoxicity in the soil environment:</b>	This material has been classified as non-hazardous.
<b>Ecotoxicity to terrestrial vertebrates:</b>	This material has been classified as non-hazardous.
<b>Ecotoxicity to terrestrial invertebrates:</b>	This material has been classified as non-hazardous.
<b>Ecotoxicity:</b>	No information available.
<b>Persistence and degradability:</b>	No information available.
<b>Bioaccumulative potential:</b>	No information available.
<b>Mobility:</b>	No information available.

### 13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

### 14. TRANSPORT INFORMATION

#### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

#### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

#### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

### 15. REGULATORY INFORMATION

Registered pursuant to the ACVM Act 1997, No. P7164. See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved Pursuant to the HSNO Act 1996, Number HSR001707. See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

All components of this product are listed on or exempt from the New Zealand Inventory of Chemical (NZIoC).

### 16. OTHER INFORMATION

**Reason for issue:** 5 Yearly Revision

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

This SDS 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 Grochem, it is the user's responsibility to determine conditions of safe use of the product.