

## SAFETY DATA SHEET

NON-Hazardous Chemical, NON-Dangerous Goods

### Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Trade Name:</b>	<b>ProAct</b>	
<b>Chemical Nature:</b>	Harpin Proten in granular formulation	
<b>Product Use:</b>	Horticultural Applications	
<b>Company:</b>	<b>Supplier</b>	<b>Distributor</b>
	<b>Plant Healthcare Ltd</b>	<b>Agrimm Technologies Ltd</b>
	1 Scott Place	PO Box 69035
	2 Hardman Street	Lincoln, 7640
	Manchester, UK	NZ
<b>Emergency Contact No.:</b>	+64 (0)21 590 329	

### Section 2: HAZARDS IDENTIFICATION

<b>OVERVIEW:</b>	Not expected to present a significant hazard under anticipated conditions of normal use.
<b>POTENTIAL HEALTH EFFECTS</b>	
<b>SKIN CONTACT:</b>	Repeated and / or prolonged skin contact may cause irritation.
<b>EYE CONTACT:</b>	May cause eye irritation.
<b>INGESTION:</b>	Significant oral exposure is considered to be unlikely, but product has low toxicity.
<b>INHALATION:</b>	Repeated inhalation may cause irritation to the respiratory tract.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>CAS#</b>
Harpin Protein 1%	N/A
Other non-hazardous ingredients 99 %	N/A

### Section 4: FIRST AID MEASURES

<b>ADVICE:</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)
<b>SKIN CONTACT:</b>	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.
<b>EYE CONTACT:</b>	Flush immediately with gently flowing water for 15mins at least. Remove contact lenses if easy to do. Continue rinsing, if symptoms develop, obtain medical attention.
<b>INGESTION:</b>	Rinse mouth. DO NOT INDUCE VOMITING. Give 100-200ml of water to drink. If symptoms develop, obtain medical attention.
<b>INHALATION:</b>	Remove patient to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.

## PROACT CONTINUED

### Section 5: FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use any means of extinction appropriate for surrounding fire conditions such as water spray, carbon dioxide, dry chemical or foam

**FIRE HAZARD:** Combustible. Fire may product irritating and / or toxic gases. Carbon Monoxide or Carbon Dioxide. As in any fire, wear self-contained breathing apparatus and full protective gear

### Section 6: ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Prevent product from entering drinking water supplies. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with non-combustible absorbent such as clay, sand and soil. Vacuum, shovel or pump waste material, including absorbent, into drum and label contents for disposal.

### Section 7: HANDLING AND STORAGE

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a dry, refrigerated or cool and well-ventilated area. Store in original containers only. Provide appropriate exhaust ventilation at places where dust is formed and avoid dust formation. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**PROTECTIVE GLOVES:** Gloves

**EYE PROTECTION:** Use goggles if contact is likely.

**PROTECTIVE CLOTHING:** Long Sleeved Protective Clothing.

**RESPIRATORY PROTECTION OR REQUIRED VENTILATION:**  
Not normally needed but if upon addition to water the powder causes airborne contamination above acceptable criteria use NIOSH/MSHA approved respiratory protection equipment.

**OTHER INFORMATION:** Handle in accordance with good industrial hygiene and safety procedures.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Evaporation Rate:	N/A
Appearance:	light brown powder	Boiling Point:	N/A
Odor:	Odourless	Freezing Point:	N/A
Weight Per M3:	470 Kg	Viscosity:	N/A
Storage Life at 4C:	>1 year	Flash Point/Method:	N/A
pH – 10% solution:	6-8.5 @ 22 C	Vapor Pressure:	N/A
Water Solubility:	Soluble		

### Section 10: STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents

**HAZARDOUS DECOMPOSITION:** Carbon Monoxide and Carbon Dioxide

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### Section 11: TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** Not Classified (Based on available data, the classification criteria are not met)

**ProAct**

**LD50 oral rat:** >5050mg/kg

**LD50 dermal rat:** >5050mg/kg

**LC50 inhalation rat (Dust/Mist)** >0.83 mg/l/4h

**Skin Corrosion / irritation:** Not Classified (Based on available data, the classification criteria are not met)

**Serious Eye Damage:** Not Classified (Based on available data, the classification criteria are not met)

**Respiratory/skin sensitisation** Not Classified (Based on available data, the classification criteria are not met)

**Germ cell mutagenicity:** Not Classified (Based on available data, the classification criteria are not met)

**Carcinogenicity:** Not Classified (Based on available data, the classification criteria are not met)

**Reproductive toxicity:** Not Classified (Based on available data, the classification criteria are not met)

**STOT – single exposure:** Not Classified (Based on available data, the classification criteria are not met)

**STOT – repeated exposure** Not Classified (Based on available data, the classification criteria are not met)

**Aspiration hazard** Not Classified (Based on available data, the classification criteria are not met)

**Potential adverse human health effects and symptoms:**

May cause slight irritation to the skin. May cause eye irritation. May cause respiratory irritation.

### Section 12: ECOLOGICAL INFORMATION

**Ecological Toxicity:** A closely related Harpin protein is classified as practical non-toxic to birds & fish.  
**Cladoceran (Daphnia)** EC50 = 1473mg/L; NOEC = 626mg/L

### Section 13: DISPOSAL CONSIDERATIONS

This product in solution is likely to have a pH of >5 it would not be considered a hazardous waste. Do not wash down drain. Recover and place material in a suitable container for intended use or disposal. Dispose in accordance with state and local regulation.

**REPORTABLE QUANTITY UNDER CERCLA:** N/A

### Section 14: TRANSPORT INFORMATION

**DOT UN STATUS:** This material is not regulated hazardous material for transportation.

**MARINE POLLUTANT:** No

### Section 15: REGULATORY INFORMATION

Not regulated by APVMA

### Section 16: OTHER INFORMATION

Please note: Agrimm Technologies Ltd. believes that the information and recommendations contained here-in are accurate as of the date hereof. The information provided herein applies only to the specific product designated and may not be valid where said product is used in combination with any other material or in any process. No warranty of fitness for any particular purpose, warranty of merchantability, or any other warranty, expressed or implied, is made concerning the information provided.

**ABBREVIATIONS:** N/E – NOT ESTABLISHED

N/A – NOT APPLICABLE

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Product Name: **ProAct**