TREATMENT OF BULK GROWING MEDIA AND POTTED PLANTS FOR RED IMPORTED FIRE ANT

REVISION REGISTER

Version	Date of Issue	Amendment Details
1	19/11/01	
2	29/11/21	Replaces version 1. All pages.

Authorised: .....L Coppinger.....
Plant Biosecurity & Product Integrity

TABLE OF CONTENTS

This publication has been compiled by Lisa Coppinger of Biosecurity Queensland, Department of Agriculture and Fisheries.

1. PURPOSE

The purpose of this procedure is to describe -

(a) the principles of operation, design features and standards required for treatment facilities;

(b) the standards required for treatment and treatment equipment; and

(c) the responsibilities and practices of personnel;

that apply to the treatment of potted plants in growing media and bulk growing media used in potted plants for Red Imported Fire Ant under an Interstate Certification Assurance (ICA) arrangement.

2. SCOPE

This procedure is applicable only to the following -

(a) **Pest** – red imported fire ant (RIFA) [*Solenopsis invicta* Buren]

(b) **Commodity** – Potted plants in media and bulk growing media used in potted plants.

(c) **Location** – Red Imported Fire Ant Interstate Plant Quarantine Area.

Certification of bulk growing media and potted plants under this Operational Procedure may not be an accepted quarantine entry condition for all intrastate or interstate markets.

Some intrastate or interstate markets may require additional plant quarantine certification for pests and diseases other than Red Imported Fire Ant as a condition of entry.

It is the responsibility of the Business consigning the produce to ensure compliance with all applicable quarantine requirements.

Information on intrastate and interstate quarantine requirements can be obtained from the plant quarantine service in the destination state or territory.

3. REFERENCES

ICA-WI-02	*Guidelines for Completion of Plant Health Assurance Certificates*

4. DEFINITIONS

accredit	means to accredit persons to give a Biosecurity Certificate in accordance with Section 415 of the *Biosecurity Act 2014*.
Accredited Certifier	means a person who holds accreditation under chapter 15 of the *Biosecurity Act 2014* to give biosecurity certificates.

Accrediting Authority	means the Department of Agriculture and Fisheries Queensland (DAF Queensland).
Application for Accreditation	means an application for accreditation of an accredited certifier for an Interstate Certification Assurance (ICA) arrangement [CAF-47].
APVMA	means the Australian Pesticides and Veterinary Medicines Authority.
Assurance Certificate	means a *Plant Health Assurance Certificate* [CAF-16].
Authorised Signatory	means a person whose name and specimen signature is included as an Authorised Signatory on the Business's Application for Accreditation.
biosecurity zone	means a specific geographic area where certain actions must be taken and the zone area can be the whole State, a defined part of the State, a group of neighbouring properties or an individual property.
bulk media	means a quantity of growing media that is intended for use in a container.
Business	means the legal entity responsible for the operation of the facility and ICA arrangement detailed in the Business's Application for Accreditation.
Certification Assurance	means a voluntary arrangement between DAF Queensland and a business that demonstrates effective in-house quality management and provides assurance through documented procedures and records that produce meets specified requirements.
certified/certification	means covered by a valid *Plant Health Assurance Certificate* [CAF-16].
consignment	means a quantity of potted plants treated and described on a Plant Health Assurance Certificate.
container	means any container used for the growing of plants e.g., plastic pots, plastic planter bags, plastic trays, ceramic pots, material planter bags.
designated treatment area	means a designated area where plants and/or media are treated in accordance with this procedure. An accredited facility may have more than one designated treatment areas.
drench	means applying the treatment solution to the point where the growing media of the potted plant is totally saturated.
facility	means the location where potted plants are treated under the Interstate Certification Assurance arrangement.
growing media	means soil, growing mixtures (soil-less media) and other non-liquid mixtures of organic and inorganic material in which plants can grow.

Inspector	means an Inspector appointed under the *Biosecurity Act 2014*.
ICA	means Interstate Certification Assurance.
immersion	means submersing the entire container of the potted plant so that the growing media is completely covered by the treatment solution until bubbling ceases.
Interstate Certification Assurance	means a system of Certification Assurance developed to meet the requirements of State and Territory governments for the certification of produce for interstate and intrastate quarantine purposes.
Red Imported Fire Ant Interstate Quarantine Area	means a 5km area surrounding a detection of Red Imported Fire Ant that is subject to interstate plant quarantine movement restrictions.
Non-conformance	means a nonfulfillment of a specified requirement.
plant	means living plants and parts of plants but excludes seeds, fruit, dried or processed plant materials.
Plant Health Assurance Certificate	means a biosecurity certificate approved by the Accrediting Authority for the ICA Scheme.
potted plant	means a plant grown in a growing media and includes the container, the growing media and the plant.
potting/staging	means preparation of the potted or re-potted plants for certification under this procedure.
RIFA	means red imported fire ant [*Solenopsis invicta* Buren].
saturated	means made thoroughly wet and unable to absorb or dissolve any more liquid.
source property	means any property owned, operated or leased by the business on which: a) growing media or plants are treated, stored, and handled under this procedure; and/or b) treated growing media or potted plants received, stored, prepared (if applicable), certified and dispatched under this procedure.
treatment date	means the date on which the chemical protection period commences.

5. RESPONSIBILITY

These position titles have been used to reflect the responsibilities of staff under the ICA arrangement. These positions may not be present in all businesses, or different titles may be used for staff that carry out these responsibilities. In some businesses one person may carry out the responsibilities of more than one position.

The **Certification Controller** is responsible for -

- representing the Business during audits and other matters relevant to ICA accreditation;
- training staff in their duties and responsibilities under this Operational Procedure;
- ensuring the Business and its staff comply with their responsibilities and duties under this Operational Procedure;
- maintaining a property plan for each source property for certification under this Operational Procedure (refer 7.2);

under PART A *(covers treatment of bulk growing media and treatment of potted plants by granular incorporation or with liquid insecticide)*

- ensuring the Business has current accreditation for an ICA arrangement under Part A of this Operational Procedure (refer 7.1);
- ensuring all bulk growing media and potted plants consigned under Part A of the ICA arrangement are treated with granular insecticide, or drenched or immersed using an insecticide treatment in accordance with the requirements of the Operational Procedure (refer 7.3);
- ensuring that prior to issuance of a *Plant Health Assurance Certificate* any consignment containing bulk growing media and/or potted plants has been subjected to insecticide treatment (refer 7.3);
- ensuring that treated and untreated growing media and/or treated and untreated potted plants can always be identified (refer 7.3.3);
- ensuring a completed Consignment and Insecticide Treatment Declaration is provided with each delivery of treated bulk growing media or potted plants supplied to the packing business for certification (refer 7.3.4).

under PART B *(covers receival, storage, preparation (if applicable) and certification and dispatch of treated plants)*

- ensuring the Business has current accreditation for an ICA arrangement under Part B of this Operational Procedure (refer 7.1);
- ensuring a completed *Consignment and Insecticide Treatment Declaration*, or an acceptable biosecurity certificate, is received with each consignment certifying that the bulk growing media or potted plants has been treated in accordance with the requirements for certification under this Operational Procedure (refer 7.4);
- ensuring that treated and untreated growing media and/or treated and untreated potted plants can always be identified (refer 7.5);
- ensuring that where a business prepares potted or re-pots plants, the business maintains a system which ensures only growing media which has been treated in accordance with the requirements in this procedure are used in the preparation of the potted or re-potted plants for certification under this Operational Procedure (refer 7.6);

- ensuring a *Potting Record* is completed when staging/potting or re-staging/potting plants (refer 7.6);
- ensuring that all consignments covered by an Assurance Certificate issued by the Business under this Operational Procedure are identified (refer 7.7.2);
- ensuring a *Plant Health Assurance Certificate* is completed and signed by an Authorised Signatory of the business prior to dispatch of the consignment from the facility to a market requiring certification of bulk growing media and/or potted plants from the facility (refer 7.7.2);
- ensuring *Plant Health Assurance Certificates* are completed, issued and distributed in accordance with the *Work Instruction Guidelines for Completion of Plant Health Assurance Certificates* [ICA-WI-02] (refer 7.7.2);
- maintaining copies of all Assurance Certificates issued by the Business under the ICA arrangement (refer 7.8).

The **Treatment Operator** is responsible for –

- ensuring all bulk growing media and potted plants consigned under Part A of the ICA arrangement are treated with granular insecticide, or drench or immersed using an insecticide treatment in accordance with the requirements of the Operational Procedure (refer 7.3);
- ensuring treatments are performed in a designated treatment area (refer 7.3);
- ensuring that treated and untreated growing media and/or treated and/or untreated potted plants systems are in place to ensure that treated and untreated growing media and treated and untreated potted plants can always be identified (refer 7.3.3); **and**

Granular insecticide media treatment

- ensuring equipment used to apply granular insecticide media treatments are calibrated for accuracy (if applicable) with calibration tests recorded (refer 7.3.1.3);
- maintaining *Granular Insecticide Treatment Preparation Chart* for each equipment used to prepare the treatment and for each granular insecticide (each active ingredient) used for growing media of different bulk densities (refer 7.3.1.4);
- maintaining a *Granular Insecticide Treatment Application Record* for each treatment of growing media or potted plants (refer 7.3.1.5); **and**

Liquid insecticide media treatment

- ensuring liquid insecticide media treatments are measured with a graduated measuring vessel that has been calibrated and confirmed as accurate upon purchase or during the initial audit (refer 7.3.2);
- ensuring the treatment mixture tank used to apply liquid treatment mixtures is calibrated for accuracy with calibration tests recorded for each tank used (if applicable) (refer 7.3.2.1);
- maintaining a *Liquid Insecticide Treatment Mixture Preparation Chart* for each spray unit used for liquid spraying under this procedure in close proximity to the treatment area (refer 7.3.2.2);
- maintaining a record of all *Liquid Insecticide Treatment Mixture Preparation and Treatments* (refer 7.3.2.3).

The **Authorised Signatories** are responsible for -

- ensuring, prior to signing and issuing an Assurance Certificate, that produce covered by the certificate has been prepared in accordance with the Business's ICA arrangement and that the details on the certificate are true and correct in every particular (refer 7.7.2);
- if applicable, ensure the completion of the *Insecticide Treatment Declaration* for certification under Part A of this Operational Procedure has been completed (refer 7.3.4).

6. REQUIREMENT

Bulk growing media and potted plants for certification under this procedure **must meet one** of the following requirements, in accordance with the instructions included on the respective product's approved label or an applicable APVMA permit:

1.	2.	3.	4.
Method of treating growing media	*Chemical*	*Dose Rate*	*Maximum certification period*
Immersion or drench	Chlorpyrifos 500g/L	30-40mL/100L water	28 days
Immersion or drench	Bifenthrin 80g/L	2.5mL/L water	28 days
Immersion or drench	Bifenthrin 100g/L	2mL/L water	28 days
Immersion or drench	Bifenthrin 240g/L	0.8mL/L water	28 days
Drench	Betacyfluthrin 25g/L	16mL/10L water	72 hours
Granular incorporation	Chlorpyrifos 100g/kg	1kg per cubic metre	12 months
Granular incorporation	Bifenthrin 2g/kg	10ppm	6 months
Granular incorporation	Bifenthrin 2g/kg	12ppm	12 months
Granular incorporation	Bifenthrin 2g/kg	15ppm	24 months

(a) Bulk growing media and potted plants must be treated with a chemical listed in column 2 of the table above at the rate specified in column 3 of that table in accordance with all APVMA permit conditions or label requirements, and

(b) Potted plants must be moved out of the Red Imported Fire Ant Interstate Plant Quarantine Area before the certification period in column 4 of the table above has expired.

DAF Queensland and interstate quarantine authorities maintain the right to inspect certified produce at any time and to refuse to accept a certificate where produce is found not to comply with specified requirements.

The Business must ensure all fire ant carriers i.e., potted plants comply with the requirements of the Biosecurity Regulations 2016.

Some produce may be damaged by chemical treatments. Businesses applying chemical treatments should check with experienced persons such as departmental officers for any available information. Testing of small quantities is recommended.

The Business must use products registered under the Agvet Code in accordance with the instructions included on the product's approved label or an applicable APVMA permit, and follow any first aid, safety, protection, storage and disposal directions on the product label or permit. Treatment facilities must comply with the requirements of the local government, environmental and workplace health and safety authorities.

Following the required treatments in this procedure does not absolve the Business from the responsibility of ensuring that treated produce does not contain a pesticide residue above the Maximum Residue Level (MRL).

7. PROCEDURE

7.1 Accreditation

7.1.1 Application for Accreditation

An Accredited Certifier seeking accreditation for an Interstate Certification Assurance arrangement must make application for accreditation by lodging the *Application for Accreditation of an Accredited Certifier for an Interstate Certification Assurance (ICA) Arrangement* [CAF-47] (refer Attachment 1) at least 10 working days prior to the intended date of commencement of certification of operation under the ICA arrangement.

If the Accredited Certifier only applies treatment of bulk growing media and/or potted plants, then Part A is to be indicated on the application and a property plan attached (refer 7.2 Property Plan).

If the Accredited Certifier only receives, stores, prepares (if applicable), certifies and dispatches treated plants, then Part B is indicated on the application and a property plan attached (refer 7.2 Property Plan).

If the Accredited Certifier performs the insecticide treatment, receives, stores, prepares (if applicable), certifies and dispatches treated plants, then Part A and Part B are to be indicated on the application and a property plan attached (refer 7.2 Property Plan).

The application may be lodged online at: -

https://www.business.qld.gov.au/industries/farms-fishing-forestry/agriculture/land-management/certification-moving-plants/accreditation

7.1.2 Audit Process

7.1.2.1 Initial Audit

Prior to an Accredited Certifier becoming accredited an initial audit of the Business is carried out to verify the ICA system is implemented and capable of operating in accordance with the requirements of the Operational Procedure, and the system is effective in ensuring compliance with the specified requirements of the ICA arrangement.

On completion of a successful initial audit, accreditation is granted to cover the current season, up to a maximum of twelve months from the date of initial accreditation and a Certificate of Accreditation is issued (refer 7.1.3 Certificate of Accreditation).

7.1.2.2 Compliance Audits

Compliance audits are conducted to verify that the ICA system continues to operate in accordance with the requirements of the Operational Procedure.

Compliance audits are, wherever practical, conducted when the ICA system is operating.

A compliance audit is conducted within four weeks of the initial accreditation or 12 weeks of the annual renewal accreditation of the ICA arrangement.

An additional compliance audit is conducted between six and nine months after the date of accreditation for an ICA arrangement that operates for more than six months of each year.

Random audits are conducted on a selected number of ICA arrangements each year. Random audits may take the form of full compliance audit, or audits of limited scope to sample treatment mixtures, certified produce, ICA system records or ICA system documentation.

Unscheduled compliance audits may be conducted at any time to investigate reported or suspected non-conformances.

7.1.2.3 Re-Accreditation

Accredited Certifiers are required to re-apply for accreditation each year the Accredited Certifier seeks to operate under the ICA arrangement. Accredited Certifiers seeking re-accreditation must lodge a renewal application prior to accreditation lapsing, or if accreditation has lapsed, prior to commencing further certification of produce under the ICA arrangement.

A compliance audit is conducted within twelve weeks of the date of re-accreditation for an Accredited Certifier applying for annual re-accreditation.

7.1.3 Certificate of Accreditation

An Accredited Certifier will receive a *Certificate of Accreditation for an Interstate Certification Assurance Arrangement* detailing the scope of the arrangement including –

- the facility location;
- the Operational Procedure;
- any restrictions on the accreditation such as –
  - the type of produce covered,
  - the chemicals covered; and
- the period of accreditation.

The Accredited Certifier must maintain a current Certificate of Accreditation and make this available on request by an Inspector.

An Accredited Certifier may not commence or continue certification of produce under the ICA arrangement unless it is in possession of a valid and current Certificate of Accreditation for the facility, procedure, produce type and chemical covered by the Assurance Certificate.

PART A and/or B – (covers property identification for each source property covered for certification under this Operational Procedure)

7.2 Property Plan

The Certification Controller shall maintain a property plan for each source property covered for certification under this Operational Procedure.

The property plan shall include the following details -

(a) source property boundary;

(b) all enclosed, covered and open area/s;

(c) the approximate size and location of the treatment area/s;

(d) the approximate size and location of the storage area/s;

(e) internal and entering roadways;

(f) dams, sheds, houses and other structures or features on the property; and

(g) the real property description of each parcel of land that comprises part of the property.

A copy of the Business's property plan(s) shall be included with the Business's Application for Accreditation (refer 7.1.1 Application for Accreditation).

If any changes occur to the property plan information, a new property plan must be submitted to the ICA District Co-ordinator within 10 working days of the change occurring.

A blank *Property Plan* [CAF-88] is included as Attachment 3 and may be copied for completion and inclusion with the Business's Application for Accreditation.

PART A - (Covers treatment of bulk growing media and treatment of potted plants by granular incorporation or with liquid insecticide)

7.3 Insecticide Treatment Program

All bulk growing media and potted plants consigned under Part A of this operational procedure must be treated with granular insecticide or drenched or immersed using an insecticide treatment in accordance with the requirements (refer 6 Requirement) of this Operational Procedure.

All treatments must be applied in accordance with the instructions on the manufacturer's product label or current APVMA permit for use.

All treatments must be performed in a designated treatment area.

7.3.1 Granular insecticide growing media treatments

This section is applicable to granular insecticide please check the relevant APVMA Permit or approved label to ensure that the intended use is approved, and treatments are prepared in accordance with requirements specified.

All media must have the bulk density determined in accordance with an agreed industry standard prior to granular insecticide treatments being applied.

The rate of chemical product to add to bulk growing media will vary dependant of the growing media density. The dry bulk density (kg/m³) of the bulk growing media must be calculated and the correct amount of chemical must be applied to achieve the correct dose rate.

The following table is a guide to average densities of commonly used growing media. Where the growing media to be treated varies from the specified ratios below, the average composition of the growing media shall be used to determine the application rate for the chemical product.

Media Mixture	Estimate Density
100 % peat/bark	Light (approx. 650kg/m³)
15% sand with 85% peat/bark	Light – Medium (approx. 800kg/m³)
15% coir with 85% bark	Light (approx. 650kg/m³)
50% vermiculite with 50% peat	Light (approx. 350 kg/m³)
25% perlite with 75% bark/peat	Light (approx. 650kg/m³)

7.3.1.1 Measuring the Growing Media Volume

The quantity of chemical product that will be added to growing media depends on the manufacturer's label instructions or relevant APVMA permit. The quantity of growing media to be treated with the chemical product must first be determined as either:

- a volume expressed in cubic metres (m³); or
- a volume expressed in litres (L).

Refer to calculation examples 7.3.1.2.

Once the quantity of growing bulk or potted media to be treated is known, the amount of the chemical product required to treat that quantity of growing media can be calculated by multiplying the specified application rate by the quantity of growing media.

7.3.1.2 Calculation Examples

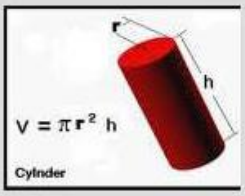
Bulk density (t/m³) x desired concentration (ppm) / concentration (g/kg) = amount to be incorporated (kg).

The following calculations may be used to determine the volume of bulk growing media in cubic metres (m³)

Cube/rectangular prism – Length (L) x Width (W) x Height (H)

For example

Pile of media that is:
4.0 (L) x 3.0 (W) x 1.0 (H) = 12 m³

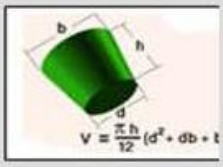


Cylinders – Pi (3.1416) x radius squared (r^2) x height (h)

- Determine the top diameter and divide by 2 to get the radius.
- Determine the vertical height of the container by measuring from the centre top to the bottom.

Example
For a tube with a diameter 6.26 cm, radius 3.13 cm and height 6.75 cm, the calculation is

3.1416 x (3.13 x 3.13) x 6.75 = 207.8 cubic centimetres (cm³)



Pot (frustum)

- Determine the top and bottom diameters
- Determine the pot height

Use the following equation:
Volume = Pi x Height (h) divided by 12 x (bottom diameter² + bottom diameter x top diameter + top diameter²)

Example
Pot – 8cm high, top diameter of 6.0 cm and bottom diameter of 3.0 cm
3.1416 x 8/12 (3^2 + 3x6 +6^2)
2.094 x (9 + 18 + 36) = 131.922 cm³

Converting cubic centimetres to Litres
1,000 cm³ = 1litre so to convert cm³ into litres divide by 1,000
For example, 132 cm³ / 1000 = 0.132 L

7.3.1.3 Granular Insecticide Measuring Equipment Calibration

For granular insecticide growing media treatments the Treatment Operator must use accurately calibrated measuring equipment i.e., scales or measuring vessel to measure the correct amount of product required.

The Treatment Operator must maintain a record of calibration or similar record for each measuring equipment used to measure the correct amount of product required. The record must include:

(a) business name and Interstate Produce (IP) Number;

(b) the identification of the equipment calibrated;

(c) the date of calibration;

(d) the results achieved during the calibration;

(e) comments or actions taken to adjust weighing equipment;

(f) the name and signature of the person conducting the calibration.

An example *Granular Insecticide Chemical Measuring Equipment Calibration Record* [CAF-135] is shown as Attachment 4.

If using a measuring vessel, volume indicator marks must be made on the outside of the measuring vessel, or by some other method which clearly and accurately indicates the maximum level and any incremental volumes used. Indicator marks must include the volume in grams or kilograms required to fill the measuring vessel to that level.

A calibration record is not required for handheld vessels such as a scoop where the amount of granular insecticide can be verified by volume or weight.

7.3.1.4 Granular Insecticide Treatment Chart

The Treatment Operator must maintain a *Granular Insecticide Treatment Chart* [CAF-138] (refer Attachment 5) or similar record in close proximity to the treatment area. A separate chart must be prepared for each equipment used by the business to prepare granular insecticide treatment mixture and apply granular insecticide to growing media consigned under this procedure. A different chart is required for each granular insecticide (each active ingredient) used and for growing media of different bulk densities.

The *Granular Insecticide Treatment Chart* must include –

(a) identification of the measuring equipment;

(b) the name and concentration of the insecticide active ingredient in the concentrate to which the chart applies;

(c) if applicable, the estimate of growing media make-up (sand/peat/bark ratio);

(d) if applicable, the dry bulk media density;

(e) the volume in cubic metres of each known quantity of growing media to be treated;

(f) the volume in cubic meters of the insecticide concentrate required when added to the growing media; and

(g) the calculation of target concentration per litre (L), or cubic metre (m^3) for any known incremental volumes used;

(h) the name and signature of the person responsible for the chart's preparation and the date of preparation.

7.3.1.5 Granular Insecticide Treatment Application Record

The Treatment Operator must maintain a *Granular Insecticide Treatment Application Record* [CAF-168] (refer Attachment 7) or similar record for each granular treatment.

The record must include -

(a) the trade name of the concentrate used;

(b) volume of insecticide active (g/kg) in the treatment;

(c) the total volume (kg/m^3) of the treatment applied;

(d) the date and time of treatment;

(e) the type of growing media treated;

(f) the dry bulk density of the growing media treated;

(g) the volume of growing media treated;

(h) if applicable, the number of potted plants treated; and

(i) the name and signature of the Treatment Operator.

7.3.2 Liquid insecticide media treatments

For liquid insecticide treatments the Treatment Operator must use a clean graduated measuring vessel to measure the amount of product required for the required volume of mixture.

Using a clean graduated measuring vessel, measure the amount of product required for the required volume of mixture. Suitable measuring vessels include graduated plastic or glass measuring cylinders or syringes.

Add the required amount of product to the spray tank in accordance with the manufacturer's directions on the label or APVMA permit.

If required, add the required amount of commercial wetting agent in accordance with the manufacturer's directions on the label.

Fill the treatment tank with clean water to the appropriate incremental volume mark or maximum mixture level mark.

Ensure that the product is completely diluted in all of the water by mixing the tank for a minimum of two minutes, or as per label direction, before commencing the spray operation. Some facilities may require extended periods of mixing to fully dilute the product in the water.

Spray equipment must have a means of continuous mixing of the spray mixture in the spray tank throughout the spray operation to avoid settling or separation of the concentrate. This can be achieved by mechanical mixing devices in the spray tank, or agitation from spray mixture returned via a by-pass from the spray pump.

7.3.2.1 Tank Calibrations Records

The treatment mixture tank used to apply liquid insecticide treatment mixtures must be calibrated for accuracy. The person conducting the calibration test must complete a record of calibration.

The calibration record must be verified as accurate by an auditor during the initial audit. New equipment intended to apply liquid treatments after the initial audit must be calibrated and also have calibration records verified for accuracy by an auditor at the next compliance audit. A separate calibration record is required for each tank used.

For liquid insecticide treatments permanent volume indicator marks must be made on the outside of the treatment mixture tank, or by some other method which clearly and accurately indicates the maximum mixture level and any incremental volumes used.

Volume indicator marks shall include the volume in litres required to fill the tank to that level.

Each of the volume indicator marks shall be calibrated with the tank at the normal filling position using a calibrated flow meter, or by some other method which accurately measures any volumes used. The person conducting the calibration test shall issue a certificate of calibration of the spray tank which must be available to the auditor at the initial audit and all compliance audits.

Water without chemical concentrate may be used in these calibration tests.

An example *Chemical Mixture Tank Calibration Certificate* [CAF-03] is shown as Attachment 8.

A Tank Calibration Certificate is not required for handheld equipment such as handheld misters or knapsack sprayers, where the capacity of the spray tank is less than 25 litres.

7.3.2.2 Liquid Insecticide Treatment Mixture Preparation Chart

The business must maintain a *Liquid Insecticide Treatment Mixture Preparation Chart* [CAF-133] (refer Attachment 9) as or similar record in close proximity to the treatment area. A separate chart must be prepared for each spray unit used by the business for liquid spraying under this Operational Procedure.

The chart must include -

(a) identification of the spray equipment and, if applicable, the associated tractor/equipment;

(b) the trade name of the concentrate;

(c) the name and concentration of the active ingredient in the concentrate;

(d) the application rate in litres of the spray equipment;

(e) the quantity of concentrate required per litre of liquid treatment spray mixture in mL per litre;

(f) the total volume in litres of the spray when filled to the maximum mixture level mark;

(g) the volume in millilitres (ml) of concentrate required in the mixture when filled to the maximum mixture level mark;

(h) the volume in millilitre (ml) of a concentrate required in the mixture for any known incremental volumes used; and

(i) the printed name and signature of the person responsible for the chart's preparation and the date of preparation.

7.3.2.3 Liquid Insecticide Treatment Mixture Preparation and Treatment Records

The Spray Operator must maintain a *Liquid Insecticide Treatment Mixture Preparation and Treatment Record* [CAF-68] (refer Attachment 10) or records which capture the same information for all treatments.

The record must include -

(a) the date of treatment mixture preparation;

(b) the trade name of the concentrate used;

(c) volume of concentrate used (millilitres) in the treatment mixture;

(d) total volume of concentrate used (millilitres) in the treatment mixture;

(e) the total volume (litres) of the made-up treatment mixture;

(f) any other chemical or additives in the treatment mixture;

(g) the date of application of the treatment;

(h) the type and size of potted plants treated;

(i) the number of potted plants treated; and

(j) the name and signature of the Treatment Operator.

7.3.3 Storage of growing media and/or potted plants

A business which maintains treated and untreated growing media and/or treated or untreated potted plants shall identify the treatment status to prevent mixing of treated and untreated product.

Examples of acceptable methods of identifying treated and untreated bulk growing media and potted plants -

(a) physical segregation of treated and untreated growing media and/or potted plants;

(b) using storage facilities which differ significantly in appearance;

(c) using signs for treated and untreated media and/or potted plants;

(d) using colour markers for treated and untreated product.

Other methods may be used provided they clearly and accurately identify treated and untreated media and/or potted plants.

The business must ensure treated growing media and/or potted plants which has been stored after the expiry of the chemical protection period are not dispatched for use under this Operational Procedure.

7.3.4 Consignment and Insecticide Treatment Declaration

A business that provides treated bulk growing media or potted plants to a business accredited under Part B of this procedure shall ensure each consignment is accompanied by a completed *Consignment and Insecticide Treatment Declaration* [CAF-179] (refer Attachment 11).

The Certification Controller must ensure a completed *Consignment and Insecticide Treatment Declaration* is provided with each consignment of treated bulk growing media or potted plants supplied to the receiving business.

> ***A Consignment and Insecticide Treatment Declaration is not required where the Business that treats the bulk growing media or potted plants is the same business that packs and certifies under this Operational Procedure.***

The *Consignment and Insecticide Treatment Declaration* must include the following:

(a) the name, address and IP/Q number of the business consigning the treated growing media or plants;

(b) the name, address and IP/Q number of the business receiving the treated growing media or plants;

(c) a description i.e., quantity and type of growing media or plants being consigned;

(d) the treatment details i.e., chemical name, rate of application, date of chemical treatment applied to the growing media or plants;

(e) a statement certifying that the growing media or potted plants has been treated in accordance with requirements of this Operational Procedure or the relevant BioSecure HACCP Entry Condition Compliance Procedure (ECCP);

(f) name and signature of the Certification Controller or an Authorised Signatory; and

(g) date consignment was dispatched.

The declaration maybe in the form of Plant Health Certificate (PHC), Plant Health Assurance Certificate (PHAC) or BioSecure HACCP Biosecurity Certificate (BHBC).

A copy of each declaration issued by the business must be maintained (refer 7.8).

PART B - (Covers receival, storage, preparation (if applicable), certification and dispatch of treated plants)

7.4 Receival of treated growing media or plants

The Certification Controller shall ensure that the treatment status of bulk growing media and/or potted plants is clearly identified at receival to prevent mixing of treated and untreated product.

Any consignments received which are not clearly identified shall be regarded as untreated for the purpose of this Operational Procedure.

A business who accepts treated growing media or treated potted plants from another business must ensure that either:

(a) the consigning business is accredited under Part A of this Operational Procedure and the consignment is accompanied by a duly completed *Consignment and Insecticide Treatment Declaration* [CAF-179] for the growing media and/or potted plants; or

(b) the consignment is accompanied by an acceptable biosecurity certificate i.e., *Plant Health Certificate* (PHC), *Plant Health Assurance Certificate* (PHAC) or *BioSecure HACCP Biosecurity Certificate* (BHBC) certifying that the growing media or potted plants has been treated in accordance with requirements of this procedure or the relevant BioSecure HACCP Entry Conditions Compliance Procedure (ECCP).

The Business shall maintain copies of all declarations received from growers whose produce they pack and certify under this Operational Procedure (refer 7.8).

7.5 Storage of growing media and/or potted plants

A business that receives treated and untreated growing media and/or treated or untreated potted plants shall implement systems to identify the treatment status to prevent mixing of treated and untreated product.

A record must be maintained that describes where all treated and untreated growing media and/or treated and untreated potted plants are stored and date of treatment.

Examples of acceptable methods of identifying treated and untreated product -

(a) physical segregation of treated and untreated growing media and/or potted plants;

(b) using storage facilities which differ significantly in appearance;

(c) using signs for treated and untreated growing media and/or potted plants;

(d) using colour markers for treated and untreated product.

Other methods may be used provided they clearly and accurately identify treated and untreated growing media and/or potted plants.

The business must ensure treated growing media and/or potted plants which has been stored after the expiry of the chemical protection period are not dispatched for use under this Operational Procedure.

7.6 Preparation of potted plants

Where a business prepares potted plants or re-pots/stages plants, the business must maintain a system which ensures only growing media which has been treated in accordance with the requirements in this procedure are used in the preparation of the potted or re-potted/staged plants for certification under this procedure. The Certification Controller shall ensure a *Potting Record* [CAF-180] (refer Attachment 12) or record which includes the following information is completed when potting or re-potting/staging plants:

(a) the date of potting or re-potting/staging;

(b) the number of plants potted or re-potted/staged;

(c) the type and size of containers;

(d) type of treatment applied to growing media;

(e) the treatment date on which chemical was applied to growing media; and

(f) the identification of the staff potting/staging.

7.7 Dispatch

7.7.1 Package Identification

The Certification Controller shall ensure that, after packing, each conforming package is marked in indelible and legible characters of at least 5 mm, with -

(a) the Interstate Produce (IP) number of the accredited business that packed the consignment;

(b) the words **"Meets ICA-39"**; and

(c) details of the treatments applied including the date, method of application (incorporated, immersion or drenched), the name and concentration of the active ingredient prior to the issuance of an Assurance Certificate by the Business under this Operational Procedure.

The plant health assurance certificate must include a description of each type of potted plant in the consignment including the number of plants, the common or scientific name of the plant and the size of container.

The business must maintain a system which ensures potted plants are dispatched prior to the treatment expiry period for the relevant chemical treatment as described in the requirements of this procedure.

Any consignment containing bulk growing media and potted plants that has not been subjected to granular incorporation or with liquid insecticide in accordance with the requirements of this Operational Procedure shall not be marked as stated above.

7.7.2 Assurance Certificates

The Certification Controller shall ensure an Assurance Certificate is completed and signed by an Authorised Signatory of the Business prior to dispatch of the consignment from the facility to a market requiring certification of bulk growing media and/or potted plants from the facility.

Assurance Certificates shall be in the form of a *Plant Health Assurance Certificate* [CAF-16].

Assurance Certificates shall include -

(a) in the "Accredited Business that Prepared the Produce" section -

- the name and address of the Accredited Business that packed the bulk growing media and/or potted plants;

(b) in the "Grower or Packer" section -

- the name and address of the Accredited Business that was responsible for **treatment of bulk growing media and/or potted plants**. Where the consignment contains treated bulk growing media and/or potted plants by a number of suppliers the word "VARIOUS" shall be used;

(c) in the "IP No. of Acc. Business" section -

- the IP No. of the Accredited Business that **packed** the bulk growing media and/or potted plants;

(d) in the "Treatment" section -

the **insecticide treatment** details including:

- in the Date column, the **most recent date** or dates of treatment of the source block/s;
- in the Treatment column, the words "Granular Insecticide Treatment" or "Liquid Insecticide Treatment";
- in the Chemical (Active Ingredient) column, the concentration and name of the active ingredient in the concentrate used (e.g., "100 g/kg Chlorpyrifos");
- in the Concentration column, the mixing rate of the concentrate (e.g., "at 40 mL/100 L"); and
- in the Duration and Temperature column indicate the type of application (for example, "immersion", 'drench", "granular incorporation");

(e) in the "Additional Certification" section the words -

- "**Meets ICA-39**";

A completed example is shown as Attachment 2.

Individual Assurance Certificates shall be issued to cover each consignment (i.e., a discrete quantity of product transported to a single consignee at one time) to avoid splitting of consignments.

Assurance Certificates shall be completed, issued and distributed in accordance with the Work Instruction *Guidelines for Completion of Plant Health Assurance Certificates* [ICA-WI-02].

7.7.3 Assurance Certificate Distribution

The **original** (yellow copy) must accompany the consignment.

The **duplicate** (white copy) copy must be retained by the Business.

7.8 ICA System Records

The Business shall maintain the following records -

PART A

(a) *Property Plan* [CAF-162] for each property (refer 7.2); **and**

(b) *a Granular Insecticide Chemical Measuring Equipment Calibration Recor*d [CAF-135] for each measuring equipment used to measure the amount of product required for the mixture to be prepared (refer 7.3.1.3);

(c) a copy of each *Granular Insecticide Treatment Preparation Chart* [CAF-138] (refer 7.3.1.4);

(d) *Granular Insecticide Treatment Application Records* [CAF-168] (refer 7.3.1.5); **or**

(e) *Chemical Mixture Tank Calibration Certificate* [CAF-03] (refer 7.3.2.1);

(f) a copy of each *Liquid Insecticide Treatment Mixture Preparation Chart* [CAF-133] (refer 7.3.2.2);

(g) *Liquid Insecticide Treatment Mixture Preparation and Treatment Records* [CAF-68] (refer 7.3.2.3); **and**

(h) a copy of each *Consignment and Insecticide Treatment Declaration* [CAF-179] (if applicable) (refer 7.3.4);

PART B

(a) Property Plan for each property (refer 7.2); and

(b) a copy of each *Consignment and Insecticide Treatment Declaration* [CAF-179] received (refer 7.4);

(c) a Potting Record [CAF-180] (refer 7.6); and

(d) a copy of each *Plant Health Assurance Certificate* [CAF-16] issued by the Business (refer 7.3.3).

ICA system records shall be retained for a period of at least 12 months from completion, or until the next compliance audit of the ICA arrangement, whichever is the later.

An accredited business must hold a minimum of 12 months ICA system records at the time of any compliance audit. If the compliance audit is conducted more than 12 months from the last compliance audit, the Business must maintain all records completed since the previous compliance audit.

ICA system records shall be made available on request by an Inspector.

7.9 ICA System Documentation

The Business shall maintain the following documentation -

(a) a copy of the Business's current *Application for Accreditation* [CAF-47] (refer Attachment 1);

(b) a current copy of this Operational Procedure;

(c) a current *Certificate of Accreditation for an Interstate Certification Assurance (ICA) Arrangement*;

(d) a current copy of the Work Instruction *Guidelines for Completion of Plant Health Assurance Certificates* [ICA-WI-02].

ICA system documentation shall be made available on request by an Inspector.

8. ATTACHMENTS

Attachment 1	*Application for Accreditation of a Business for an Interstate Certification Assurance (ICA) Arrangement*	CAF-47 **(FRONT 2 PAGES)**
Attachment 2	*Plant Health Assurance Certificate*	CAF-16 **(COMPLETED EXAMPLES)**
Attachment 3	Property Plan	CAF-88 **(BLANK)**
Attachment 4	Granular Insecticide Chemical Measuring Equipment Calibration Record	CAF-135 **(BLANK)**
Attachment 5	Granular Insecticide Treatment Chart	CAF-138 **(BLANK)**
Attachment 6	Granular Insecticide Treatment Chart	CAF-138 **(EXAMPLE)**
Attachment 7	Granular Insecticide Treatment Application Record	CAF-182 **(BLANK)**
Attachment 8	Chemical Mixture Tank Calibration Certificate	CAF-03 **(BLANK)**

Attachment 9	Liquid Insecticide Treatment Mixture Preparation Chart	CAF-133 **(BLANK)**
Attachment 10	Liquid Insecticide Treatment Mixture Preparation and Treatment Record	CAF-168 **(BLANK)**
Attachment 11	Consignment and Insecticide Treatment Declaration	CAF-179 **(BLANK)**
Attachment 12	Potting Record	CAF-180 **(BLANK)**

Application for accreditation of an accredited certifier for an Interstate Certification Assurance (ICA) arrangement

Pursuant to section 420 of the *Biosecurity Act 2014*

OFFICE USE ONLY
DATE RECEIVED:
PWS NUMBER:
DATE APPROVED OR REFUSED:
FURTHER INFORMATION REQUEST DATE:
DATE FURTHER INFORMATION RECEIVED:
PAYMENT PROCESSED DATE:
PAYMENT AMOUNT RECEIVED:
RECEIPT NUMBER:

Important information for applicants

This form is to be used to apply as an accredited certifier for an Interstate Certification Assurance (ICA) arrangement.

Information requested will enable your application to be processed as prescribed by the *Biosecurity Act 2014*. Your application must be assessed and granted by the chief executive before you can proceed with the proposed activity.

Before lodging this application you should be familiar with the requirements of the *Biosecurity Act 2014* available on the Office of the Queensland Parliamentary Counsel website www.legislation.qld.gov.au.

How to complete form for a new application

- Must complete entire form.

How to complete form for an amendment or renewal

- Update any areas that require amendments.
- Must complete part A section 1, part B sections 2-4 and part C.

How to submit this form

- In person to:

  Any Department of Agriculture and Fisheries regional office; or

- Via post to:

  Department of Agriculture and Fisheries
  PO Box 5083
  Nambour Qld 4560

Prescribed fee

- For the current fees visit: www.daf.qld.gov.au/biosecurity-fees
- Fees are applicable until the end of the financial year.
- The prescribed fee must be paid at the time the application is submitted for it to be processed.

Term of accreditation

The term of this accreditation shall be one (1) year unless sooner cancelled or suspended from the date of your application being approved.

Notification

The applicant will be notified of the outcome within thirty (30) days of receipt of the application. The applicant will be notified by post to the applicant's postal address.

The application is deemed to have been received when the District Co-ordinator (Certification and Accreditation Services) in your district is in receipt of an accurate and complete application and payment of the prescribed fee has been received, processed and cleared.

Contact us

For more information please contact the District Co-ordinator (Certification and Accreditation Services), Plant Biosecurity & Product Integrity, Biosecurity Queensland, Department of Agriculture and Fisheries in your district or the Department of Agriculture and Fisheries Customer Service Centre on 13 25 23.

Type of application *(select one only)*

☐ New application ☐ Amendment ☐ Renewal

Part A – Accredited certifier application

1. Applicant details

Please supply ACN or ARBN *(if applicable)*

Please supply Interstate Produce Number (IPN) *(if known)*

Q

Applicant is: *(select one only)*

☐ an individual ☐ a partnership ☐ an incorporated company ☐ a co-operative association

☐ other *(please specify)*

If applicant is an individual, please complete the following *Supply full legal name including first name, surname and any other name/s.*

First name

Last name

Other name/s

If applicant is a partnership, please complete the following *Supply the full legal name of each partner in their normal order.*

First name

Last name

First name

Last name

First name

Last name

If applicant is an incorporated company, co-operative association or other type of legal entity, please complete the following *Supply the full legal name.*

Trading name/s of the applicant *Supply any business names or brand names used by the applicant on packages of certified items.*

2. Address details

Street address

Suburb/Town/Locality

Country

State

Postcode

Postal address *(if different to street address)*

Suburb/Town/Locality

Country

State

Postcode

3. Contact details

Phone

Fax *(if applicable)*

Mobile *(if applicable)*

E-mail address

Preferred method of contact

☐ Any ☐ E-mail ☐ Phone ☐ Mail

Queensland Government

Plant Health Assurance Certificate

Pursuant to Sections 412 and 413 of the Biosecurity Act 2014

(Means a biosecurity certificate issued in accordance with Chapter 15 of the *Biosecurity Act 2014*.)

Consignment Details (Please print)

Certificate Number: 9999999

Consignor	Consignee
Name Nursery Pty Ltd	Name Nursery Suppliers Pty Ltd
Address 123 Brisbane Road	Address 123 Victoria Market
Brisbane Qld 4001	Talbot VIC 3371

Reconsigned To (Splitting consignments or reconsigning whole consignments)	Method of Transport (Provide details where known)
Name	☐ Road — Truck/Trailer Registration
Address	☐ Rail — Consignment
	☐ Air — Airline/Flight no.
	☐ Sea — Vessel Name & Voyage no.

Certification Details (Please print)

Accredited Certifier Carrier of Biosecurity Matter	Grower or Packer
Name Nursery Pty Ltd	Name VARIOUS
Address 123 Brisbane Road	Address
Brisbane Qld 4001	

IP No. of Acc. Certifier	Brand Name or Identifying Marks (as marked on packages)	Date Code (as marked on packages)
Q 9999	Nursery Pty Ltd	17/09/2021

Facility No.	Procedure Code	Expiry Date
01	ICA-39	01 / 12 / 21

Facility No.	Procedure Code	Expiry Date
		/ /

Number of Packages	Type of Packages (e.g. trays, cartons)	Type of Carrier of Biosecurity Matter	Authorisation for Split Consignment
450	Cartons	Potted Plants	

Date	Treatment	Chemical (Active Ingredient)	Concentration	Duration and Temperature
/ /	☐ Dipping	Dimethoate	400ppm	☐ One min. ☐ 10 sec. then wet for 60 sec.
/ /	☐ Flood Spraying	Dimethoate	400ppm	10 seconds then wet for 60 seconds
/ /	☐ Fumigation	Methyl Bromide	g/m³	Two hours @ °C
/ /	☐ Grown and packed on a property free from red imported fire ant			
/ /	☐ Sourced from a property located more than 5km from a known infestation of red imported fire ant			
/ /	☐ Mature green condition at packing			
/ /	☐ Bananas in a hard green condition with unbroken skin			
/ /	☐ Inspected and found free of melon thrips			
31/08/21	Liquid Insecticide Treatment (80 g/L Bifenthrin / 2.5 ml/L Water) Maximum certification period 28 Days			

Additional Certification

Meets ICA-39

Declaration

I, an Authorised Signatory of the accredited certifier that prepared the Carrier of Biosecurity Matter described above, hereby declare that the Carrier of Biosecurity Matter have been prepared in the accredited certifier's approved facilities in accordance with the accreditation(s) granted to the accredited certifier under the *Biosecurity Act 2014* and that the details shown above are true and correct in every particular.

Authorised Signatory's Name (Please print)	Signature	Date
Arthur John Signatory	*A J Signatory*	17/09/2021

Yellow copy: Consignment copy (original) **White copy:** Accredited Certifier's copy (duplicate copy)

OAF-16 (0219) V4

Attachment 2

Queensland Government

Plant Health Assurance Certificate

Pursuant to Sections 412 and 413 of the Biosecurity Act 2014

(Means a biosecurity certificate issued in accordance with Chapter 15 of the *Biosecurity Act 2014*.)

Consignment Details (Please print)

Certificate Number: 9999999

Consignor	Consignee
Name Nursery Pty Ltd	Name Nursery Suppliers Pty Ltd
Address 123 Brisbane Road	Address 123 Victoria Market
Brisbane Qld 4001	Talbot VIC 3371

Reconsigned To (Splitting consignments or reconsigning whole consignments)	Method of Transport (Provide details where known)
Name	☐ Road — Truck/Trailer Registration
Address	☐ Rail — Consignment
	☐ Air — Airline/Flight no.
	☐ Sea — Vessel Name & Voyage no.

Certification Details (Please print)

Accredited Certifier Carrier of Biosecurity Matter	Grower or Packer
Name Nursery Pty Ltd	Name VARIOUS
Address 123 Brisbane Road	Address
Brisbane Qld 4001	

IP No. of Acc. Certifier	Brand Name or Identifying Marks (as marked on packages)	Date Code (as marked on packages)
Q 9999	Nursery Pty Ltd	17/09/2021

Facility No.	Procedure Code	Expiry Date
01	ICA-39	01 / 12 / 21

Facility No.	Procedure Code	Expiry Date
		/ /

Number of Packages	Type of Packages (e.g. trays, cartons)	Type of Carrier of Biosecurity Matter	Authorisation for Split Consignment
60	Cubic Metres	Bulk Growing Media	

Date	Treatment	Chemical (Active Ingredient)	Concentration	Duration and Temperature
/ /	☐ Dipping	Dimethoate	400ppm	☐ One min. ☐ 10 sec. then wet for 60 sec.
/ /	☐ Flood Spraying	Dimethoate	400ppm	10 seconds then wet for 60 seconds
/ /	☐ Fumigation	Methyl Bromide	g/m³	Two hours @ °C
/ /	☐ Grown and packed on a property free from red imported fire ant			
/ /	☐ Sourced from a property located more than 5km from a known infestation of red imported fire ant			
/ /	☐ Mature green condition at packing			
/ /	☐ Bananas in a hard green condition with unbroken skin			
/ /	☐ Inspected and found free of melon thrips			
13 / 05 / 21	Granular Insecticide Treatment (2 g/kg Bifenthrin / 10ppm) Maximum certification period 6 Months			

Additional Certification

Meets ICA-39

Declaration

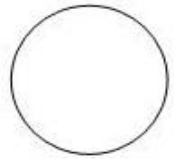
I, an Authorised Signatory of the accredited certifier that prepared the Carrier of Biosecurity Matter described above, hereby declare that the Carrier of Biosecurity Matter have been prepared in the accredited certifier's approved facilities in accordance with the accreditation(s) granted to the accredited certifier under the *Biosecurity Act 2014* and that the details shown above are true and correct in every particular.

Authorised Signatory's Name (Please print)	Signature	Date
Arthur John Signatory	A J Signatory	17/09/2021

Yellow copy: Consignment copy (original) **White copy:** Accredited Certifier's copy (duplicate copy)

CAF-16 (0219) V4

PROPERTY PLAN



Attachment 3

Property Plan

ARRANGEMENT DETAILS

Applicant's Name *(as shown on the application form)*

SCOPE OF ARRANGEMENT

Street Address of Property

Postcode

Real Property Description(s) *(available from Rates Notice)*

PROPERTY PLAN DETAILS

The property plan (overleaf) is to include the following-

1. road access including street names;
2. internal roadways within the property;
3. the location and identification of buildings on the property (e.g. office, house, equipment and potting sheds, and permanent shade house structures etc);
4. the size and location of all open and covered plant growing areas.

DECLARATION

I ..... *(full printed name)* the

..... *(position in business)*

am authorised to sign on behalf of the business and I understand that-

(a) accreditation will only be granted for properties covered by a Property Plan submitted with the *Application for Accreditation of an Accredited Certifier for an Interstate Certification Assurance (ICA) Arrangement* [CAF-47];

(b) application must be made to amend any of the current details in the *Application for Accreditation of an Accredited Certifier for an Interstate Certification Assurance (ICA) Arrangement* [CAF-47] or this Property Plan; and

(c) following accreditation, certification can only be issued in accordance with scope of accreditation detailed in the *Certificate of Accreditation for an Interstate Certification Assurance (ICA) Arrangement* covering the arrangement.

..... / /

Signature Date

GRANULAR INSECTICIDE CHEMICAL MEASURING EQUIPMENT CALIBRATION RECORD

Business Name: ..... **Interstate Produce (IP) Number: Q.....**

Date of Test	Equipment Type	Calibration results			Adjustment	Name of Testing Officer	Signature	Comments
		Test 1	Test 2	Test 3				

NOTES

1. Scales and other measuring equipment used to calculate quantities of solid chemical concentrations shall be calibrated annually.
2. The balance must be calibrated using the manufacturer's instructions for the equipment.
3. The balance must be verified as consistently accurate to within ± 1% of the total load range.
4. A maximum error margin of 10g applies.

GRANULAR INSECTICIDE TREATMENT CHART

CHEMICAL CONCENTRATE = BIFENTHRIN (2g/kg)

Potting Media Mix = _____

Bulk Media Density = _____ kg/m³

Product Application Rate = _____g/L

CHEMICAL CONCENTRATE = CHLORPYRIFOS (100g/kg)

Product Application Rate = _____ kg/m³

BIFENTHRIN INCREMENTAL VOLUMES

_____Media X _____g Concentrate = _____g/L Total Concentrate

_____Media X _____g Concentrate = _____g/L Total Concentrate

_____Media X _____g Concentrate = _____g/L Total Concentrate

CHLORPYRIFOS INCREMENTAL VOLUMES

_____Media X _____kg Concentrate = _____kg Total Concentrate

_____Media X _____kg Concentrate = _____kg Total Concentrate

_____Media X _____kg Concentrate = _____kg Total Concentrate

Prepared by: _____ _____ / /
Printed Name Signature Date

CAF-138 (07-18)

GRANULAR INSECTICIDE TREATMENT CHART

CHEMICAL CONCENTRATE = BIFENTHRIN (2g/kg)

Potting Media Mix = 25% sand with & 75% peat

Bulk Media Density = 0.85 kg/m³

Product Application Rate = 2.7 g/L

CHEMICAL CONCENTRATE = CHLORPYRIFOS (100g/kg)

Product Application Rate = 1 kg/m³

BIFENTHRIN INCREMENTAL VOLUMES (per litre)

20L Media X 2.7g Concentrate = 54g Total Concentrate

30L Media X 2.7g Concentrate = 81g Total Concentrate

40L Media X 2.7g Concentrate = 108g Total Concentrate

CHLORPYRIFOS INCREMENTAL VOLUMES (per cubic metre)

2m3 Media X 1 kg Concentrate = 2kg Total Concentrate

3m3 Media X 1 kg Concentrate = 3kg Total Concentrate

4m3 Media X 1 kg Concentrate = 4kg Total Concentrate

Prepared by: A Signatory (Printed Name) | A Signatory (Signature) | 28/06/2021 (Date)

GRANULAR INSECTICIDE TREATMENT APPLICATION RECORDS

Date	Time	Volume of Insecticide Active (g/kg)	Total Volume (kg/m^3)	Trade Name of Concentrate	Type of Growing Media	Dry Bulk Density of Growing Media Treated	No. of Potted Plants Treated (if applicable)	Spray Operator's Name	Signature

CAF-182 (11/11) V1

CHEMICAL MIXTURE TANK CALIBRATION CERTIFICATE

EQUIPMENT CALIBRATED

Name and Address of Owner of Equipment: _____

_____

Type of equipment (eg boom spray, mister): _____

Brand: _____

Model: _____

Serial No.: _____

Other Identification: _____

TESTING DETAILS

Name and Address of the Business Conducting the Test: _____

_____

Date of Testing: _____

Type of Flow Meter Used: _____

Date of Latest Calibration of Flow Meter: _____

CALIBRATION RESULTS

Maximum Mixture Level Volume (litres) _____

Incremental Volumes (litres) (*as marked on the spray tank*): _____

_____

_____

_____

_____

_____

_____

CERTIFICATION

The spray mixture tank on the equipment described above has been calibrated in the normal filling position using a calibrated flow meter. Volume indicator marks have been clearly marked on the tank with the volume in litres required to fill the tank to that level.

_____ _____ / /

Printed Name Signature Date

CAF-03 (06/17) V1

LIQUID INSECTICIDE TREATMENT MIXTURE PREPARATION CHART

Spray Unit /Tank _____

Product (*Trade Name*) _____

Active Ingredient _____ Conc. _____ /

Product Mixing Ratio _____ /Litre

Full Tank/Spray Unit

Volume of Water = _____Litres

Quantity of Product = _____millilitres/grams

Part Fill

_____ mL Product / _____ Litres Water

_____ mL Product / _____ Litres Water

_____ mL Product / _____ Litres Water

Prepared by: _____ _____ / /

Printed Name Signature Date

LIQUID INSECTICIDE TREATMENT MIXTURE PREPARATION AND TREATMENT RECORD

SPRAY MIXTURE PREPARATION					SPRAY TREATMENT					
Date	Time	Volume of Mixture (Litres)	Volume of Concentrate (Litres)	Trade Name of Concentrate	Date of Application	Spray Equipment Used	Block Treated (Code)	Area Treated (Ha)	Spray Operator's Name	Signature

CAF-168 (8/20) V1

Attachment 10

CONSIGNMENT AND INSECTICIDE TREATMENT DECLARATION

I ____ (*full printed name*) Q __________

of ____ (*address*)

hereby declare to -

____ (*full printed name*) Q __________

at ____ (*address*)

that the following product/s have been treated as indicated:

Product description	Quantity	Treatment Details (indicate type of treatment and treatment date below)								
		Chlorpyrifos 500 g/L at a rate of 40mL/100L	Bifenthrin 80 g/L at a rate of 2.5mL/L	Bifenthrin 100 g/L at a rate of 2mL/L	Bifenthrin 240 g/L at a rate of 0.8mL/L	Betacyfluthrin 25g/L at a rate of 16mL/10L	Chlorpyrifos 100 g/kg at a rate of 1kg per cubic metre	Bifenthrin 2 g/kg at a rate of 10ppm	Bifenthrin 2 g/kg at a rate of 12ppm	Bifenthrin 2 g/kg at a rate of 15ppm
		❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /
		❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /
		❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /
		❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /	❒ Treatment date: / /

In accordance with;

❒ ICA Operational Procedure *Treatment of Bulk Growing Media and Potted Plants for Red Imported Fire Ant* [ICA-39]; or

❒ BioSecure HACCP Entry Condition Compliance Procedure (ECCP No. _______)

____ / /

Name & Signature Date

POTTING RECORD

Date of potting or re-potting/staging	No. of plants potted or re-potted/staged	Type of containers	Size of container	Type of treatment applied to growing media	Treatment date chemical applied to growing media	Staff Name