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# Gazette

## Agricultural and veterinary chemicals

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**Australian Pesticides and  
Veterinary Medicines Authority**

The *Agricultural and Veterinary Chemical Code Act 1994* (the Act) commenced on 15 March 1995. The Agricultural and Veterinary Chemicals Code (the Agvet Code) scheduled to the Act requires notices to be published in the *Gazette* containing details of the registration of agricultural and veterinary chemical products and other approvals granted by the Australian Pesticides and Veterinary Medicines Authority. The Agvet Code and related legislation also requires certain other notices to be published in the *Gazette*. A reference to Agvet Codes in this publication is a reference to the Agvet Code in each state and territory jurisdiction.

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## **General information**

The APVMA Gazette is published fortnightly and contains details of the registration of agricultural and veterinary chemicals products and other approvals granted by the APVMA, notices as required by the Agricultural and Veterinary Chemicals Code (the Agvet Code) and related legislation and a range of regulatory material issued by the APVMA.

Pursuant to section 8J(1) of the Agvet Code, the APVMA has decided that it is unnecessary to publish details of applications made for the purpose of notifying minor variations to registration details. The APVMA will however report notifications activity in quarterly statistical reports.

## **Distribution and subscription**

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## Agricultural chemical products and approved labels

Pursuant to the Agricultural and Veterinary Chemicals Code scheduled to the *Agricultural and Veterinary Chemicals Code Act 1994*, the APVMA hereby gives notice that it has registered or varied the relevant particulars or conditions of the registration in respect of the following products and has approved the label or varied the relevant particulars or conditions of the approval in respect of the containers for the chemical product, with effect from the dates shown.

**Table 1: Agricultural products based on existing active constituents**

<b>Application no.</b>	141097
<b>Product name</b>	Imtrade Omen 290 Veriphy SL Insecticide
<b>Active constituent</b>	290 g/L omethoate (an anticholinesterase compound)
<b>Applicant name</b>	Imtrade Australia Pty Ltd
<b>Applicant ACN</b>	090 151 134
<b>Date of registration</b>	20 November 2023
<b>Product registration no.</b>	93968
<b>Label approval no.</b>	93968/141097
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 290 g/L omethoate soluble concentrate product for the control of redlegged earth mite, blue oat mite and lucerne flea on cereals, canola and pulse crops, and bluegreen aphid and cowpea aphid on faba beans

<b>Application no.</b>	137756
<b>Product name</b>	Kenso AgCare Pelargo 525 Organic Weedkiller
<b>Active constituent</b>	525 g/L nonanoic acid
<b>Applicant name</b>	Kenso Corporation (M) Sdn. Bhd.
<b>Applicant ACN</b>	N/A
<b>Date of registration</b>	20 November 2023
<b>Product registration no.</b>	93042
<b>Label approval no.</b>	93042/137756
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 525 g/L nonanoic acid emulsion concentrate product for non-selective control of seedling and young broadleaf and grass weeds, control of moss and algae, and for suppression of established weeds and perennial species

<b>Application no.</b>	141081
<b>Product name</b>	Swan Trifluralin 480 Herbicide
<b>Active constituent</b>	480 g/L trifluralin
<b>Applicant name</b>	Swan Chemical Holdings Pty Ltd
<b>Applicant ACN</b>	669 863 067
<b>Date of registration</b>	20 November 2023
<b>Product registration no.</b>	93960
<b>Label approval no.</b>	93960/141081
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of an emulsifiable concentrate (EC) herbicide product containing 480 g/L trifluralin for the control of annual grasses and certain broadleaf weeds in certain horticultural and agricultural crops

<b>Application no.</b>	137411
<b>Product name</b>	NoMate Spiral Gold Mating Disruption Agent
<b>Active constituent</b>	215 mg (E,E)-8,10-dodecadien-1-ol per dispenser
<b>Applicant name</b>	AgriNova New Zealand Limited
<b>Applicant ACN</b>	34 004 099 592
<b>Date of registration</b>	21 November 2023
<b>Product registration no.</b>	92949
<b>Label approval no.</b>	92949/137411
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 215 mg (E,E)-8,10-dodecadien-1-ol per dispenser slow release generator spiral, a mating disruption agent for the control of codling moth ( <i>Cydia pomonella</i> )

<b>Application no.</b>	141302
<b>Product name</b>	Vanquish Glypho 540 Herbicide
<b>Active constituent</b>	540 g/L glyphosate present as the potassium salt
<b>Applicant name</b>	Heart Agricultural Pty Ltd
<b>Applicant ACN</b>	667 057 945
<b>Date of registration</b>	21 November 2023
<b>Product registration no.</b>	94033
<b>Label approval no.</b>	94033/141302
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 540 g/L glyphosate present as the potassium salt soluble concentrate product for use as a non-selective herbicide for the control of many annual and perennial weeds

<b>Application no.</b>	141076
<b>Product name</b>	Swan Glyphosate 450 Herbicide
<b>Active constituent</b>	450 g/L glyphosate present as the isopropylamine salt
<b>Applicant name</b>	Swan Chemical Holdings Pty Ltd
<b>Applicant ACN</b>	669 863 067
<b>Date of registration</b>	21 November 2023
<b>Product registration no.</b>	93957
<b>Label approval no.</b>	93957/141076
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 450 g/L glyphosate, present as the isopropylamine salt, a non-residual herbicide for the control of a broad range of annual and perennial weeds

<b>Application no.</b>	141331
<b>Product name</b>	Agro-Essence AmmoSul Herbicide Adjuvant
<b>Active constituent</b>	980 g/kg ammonium sulphate
<b>Applicant name</b>	Agro-Alliance (Australia) Pty Ltd
<b>Applicant ACN</b>	130 864 603
<b>Date of registration</b>	23 November 2023
<b>Product registration no.</b>	94042
<b>Label approval no.</b>	94042/141331
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a granular formulation (GR) product containing 980 g/kg ammonium sulphate to be used with glyphosate-based herbicides to minimise antagonism when tank mixed with flowable herbicides and to improve performance under adverse environmental conditions

<b>Application no.</b>	136168
<b>Product name</b>	OROBOOST Spray Adjuvant
<b>Active constituents</b>	135 g/L alcohol ethoxylate, 75 g/L anionic surfactant
<b>Applicant name</b>	Oro Agri Inc
<b>Applicant ACN</b>	N/A
<b>Date of registration</b>	24 November 2023
<b>Product registration no.</b>	92642
<b>Label approval no.</b>	92642/136168
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 135.8 g/L alcohol ethoxylate and 75 g/L non-ionic surfactant soluble concentrate (SL) product as a horticultural wetting and spreading agent for use with insecticides and miticides

<b>Application no.</b>	141186
<b>Product name</b>	Trail Stop Snail and Slug Pellets
<b>Active constituent</b>	15 g/kg metaldehyde
<b>Applicant name</b>	Four Seasons Agribusiness Pty Ltd
<b>Applicant ACN</b>	115 133 189
<b>Date of registration</b>	27 November 2023
<b>Product registration no.</b>	93999
<b>Label approval no.</b>	93999/141186
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 15 g/kg pellet formulation of metaldehyde for the control of snails and slugs in many agricultural and horticultural systems

<b>Application no.</b>	141100
<b>Product name</b>	Genfarm Bromoxynil 400 EC Herbicide
<b>Active constituent</b>	400 g/L bromoxynil present as the N-octanoyl ester
<b>Applicant name</b>	Nutrien Ag Solutions Limited
<b>Applicant ACN</b>	008 743 217
<b>Date of registration</b>	27 November 2023
<b>Product registration no.</b>	93969
<b>Label approval no.</b>	93969/141100
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 400 g/L emulsifiable concentrate (EC) bromoxynil herbicide product for use in cereals, linseed, clover, lucerne, turf, fallow and non-crop situations for control a range of broadleaf weeds

<b>Application no.</b>	141255
<b>Product name</b>	eFume Onsite Fumigant
<b>Active constituent</b>	901 g/L ethyl formate
<b>Applicant name</b>	Draslovka Services Pty Ltd
<b>Applicant ACN</b>	609 536 763
<b>Date of registration</b>	28 November 2023
<b>Product registration no.</b>	94020
<b>Label approval no.</b>	94020/141255
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 901 g/L ethyl formate liquid product and label approval as a post-harvest fumigant for the control of certain insect pests in stored cereal grains, oilseeds, grain storage premises, equipment and horticultural produce pests

<b>Application no.</b>	140988
<b>Product name</b>	Albaugh Sperto 680 EC Herbicide
<b>Active constituent</b>	680 g/L 2,4-D present as the 2-ethylhexyl ester
<b>Applicant name</b>	Albaugh Asia Pacific Limited
<b>Applicant ACN</b>	N/A
<b>Date of registration</b>	29 November 2023
<b>Product registration no.</b>	93943
<b>Label approval no.</b>	93943/140988
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of an emulsifiable concentrate product containing 680 g/L 2,4-D 2-ethylhexyl ester for the selective control of various weeds in crops, pastures and non-agricultural areas



Table 2: Variations of registration

Application no.	141968
Product name	Affinity Force Herbicide
Active constituent	240 g/L carfentrazone-ethyl
Applicant name	FMC Australasia Pty Ltd
Applicant ACN	095 326 891
Date of variation	16 November 2023
Product registration no.	62003
Label approval no.	62003/141968
Description of the application and its purpose, including the intended use of the chemical product	Variation to safety directions and first aid instructions appearing on a label to reflect the current FAISD Handbook

Application no.	141986
Product name	Tomahawk 480 SC Insecticide
Active constituent	480 g/L thiacloprid
Applicant name	Sundew Solutions Pty Ltd
Applicant ACN	135 400 261
Date of variation	17 November 2023
Product registration no.	92710
Label approval no.	92710/141986
Description of the application and its purpose, including the intended use of the chemical product	Variation to the particulars of registration and label approval to change the distinguishing product name and the name that appears on the label from 'Marvel 480 SC Insecticide' to 'Tomahawk 480 SC Insecticide'

Application no.	141059
Product name	Kenso Agcare Cossack 745 SL Herbicide
Active constituent	745 g/L flupropanate present as the sodium salt
Applicant name	Kenso Corporation (M) Sdn. Bhd.
Applicant ACN	N/A
Date of variation	20 November 2023
Product registration no.	85598
Label approval no.	85598/141059
Description of the application and its purpose, including the intended use of the chemical product	Variation of product registration and label approval to amend the withholding period and add spray drift restraints

<b>Application no.</b>	141139
<b>Product name</b>	Campbell Cheers 720 WeatherShield Fungicide
<b>Active constituent</b>	720 g/L chlorothalonil
<b>Applicant name</b>	Colin Campbell (Chemicals) Pty Ltd
<b>Applicant ACN</b>	000 045 590
<b>Date of variation</b>	20 November 2023
<b>Product registration no.</b>	63122
<b>Label approval no.</b>	63122/141139
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to the particulars of registration and label approval to alter details for peanuts and bananas and update the label as per the Agricultural Labelling Code

<b>Application no.</b>	141254
<b>Product name</b>	Steer 750 Herbicide
<b>Active constituent</b>	750 g/kg quinclorac
<b>Applicant name</b>	Turf Culture Pty Ltd
<b>Applicant ACN</b>	117 986 615
<b>Date of variation</b>	20 November 2023
<b>Product registration no.</b>	70424
<b>Label approval no.</b>	70424/141254
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to registration and label particulars to amend the label text

<b>Application no.</b>	141129
<b>Product name</b>	Kelpie S-MET 960 EC Herbicide
<b>Active constituent</b>	960 g/L S-metolachlor
<b>Applicant name</b>	Sinochem International Australia Pty Ltd.
<b>Applicant ACN</b>	160 164 616
<b>Date of variation</b>	20 November 2023
<b>Product registration no.</b>	84994
<b>Label approval no.</b>	84994/141129
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation on the product registration and label approval to update critical comments for toad rush in legumes and add spray drift restraints

<b>Application no.</b>	141189
<b>Product name</b>	Sinmas 225 Insecticide
<b>Active constituent</b>	225 g/L methomyl (an anticholinesterase compound)
<b>Applicant name</b>	Sinon Australia Pty Ltd
<b>Applicant ACN</b>	102 741 024
<b>Date of variation</b>	20 November 2023
<b>Product registration no.</b>	60419
<b>Label approval no.</b>	60419/141189
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to registration particulars, particulars of label, to add additional uses in lettuce, plums and <i>Centrosema pascuorum</i> seed crop, and update restraints, withholding periods, safety directions, and first aid instructions

<b>Application no.</b>	140200
<b>Product name</b>	FMH50 Herbicide
<b>Active constituent</b>	50 g/L fluroxypyr as the methyl heptyl ester
<b>Applicant name</b>	DuluxGroup (Australia) Pty Ltd
<b>Applicant ACN</b>	000 049 427
<b>Date of variation</b>	20 November 2023
<b>Product registration no.</b>	91959
<b>Label approval no.</b>	91959/140200
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to the particulars of registration and label approval to add control of sow thistle

<b>Application no.</b>	141139
<b>Product name</b>	Campbell Cheers 720 WeatherShield Fungicide
<b>Active constituent</b>	720 g/L chlorothalonil
<b>Applicant name</b>	Colin Campbell (Chemicals) Pty Ltd
<b>Applicant ACN</b>	000 045 590
<b>Date of variation</b>	20 November 2023/28 December 2023
<b>Product registration no.</b>	63122
<b>Label approval no.</b>	63122/141139
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to the particulars of registration and label approval to alter details for peanuts and bananas and update the label as per the Agricultural Labelling Code

<b>Application no.</b>	140199
<b>Product name</b>	FMH5 Herbicide
<b>Active constituent</b>	5 g/L fluroxypyr as the methyl heptyl ester
<b>Applicant name</b>	DuluxGroup (Australia) Pty Ltd
<b>Applicant ACN</b>	000 049 427
<b>Date of variation</b>	21 November 2023
<b>Product registration no.</b>	91962
<b>Label approval no.</b>	91962/140199
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to the particulars of registration and label approval to add new weeds

<b>Application no.</b>	141092
<b>Product name</b>	Emerge Flowable Seed Treatment
<b>Active constituent</b>	600 g/L imidacloprid
<b>Applicant name</b>	Syngenta Australia Pty Ltd
<b>Applicant ACN</b>	002 933 717
<b>Date of variation</b>	22 November 2023
<b>Product registration no.</b>	63312
<b>Label approval no.</b>	63312/141092
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation of product registration and label approval to update the withholding periods on the label

<b>Application no.</b>	140317
<b>Product name</b>	Surefire Termiticide and Insecticide
<b>Active constituent</b>	100 g/L fipronil
<b>Applicant name</b>	PCT Holdings Pty Ltd
<b>Applicant ACN</b>	099 023 962
<b>Date of variation</b>	23 November 2023
<b>Product registration no.</b>	68398
<b>Label approval no.</b>	68398/140317
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to registration particulars, particulars of label to add claims for use in turf and control urban pest in external areas, change the pack size and update the label according to the Agricultural Labelling Code

<b>Application no.</b>	141163
<b>Product name</b>	Genfarm Metolachlor 960 Herbicide
<b>Active constituent</b>	960 g/L metolachlor
<b>Applicant name</b>	Nutrien Ag Solutions Limited
<b>Applicant ACN</b>	008 743 217
<b>Date of variation</b>	27 November 2023
<b>Product registration no.</b>	67901
<b>Label approval no.</b>	67901/141163
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation of label approval to correct rate error in the critical comments for control of toad rush in legume pastures from 500 mL/ha to 370 mL/ha

<b>Application no.</b>	140989
<b>Product name</b>	Bravo Weather Stik Fungicide
<b>Active constituent</b>	720 g/L chlorothalonil
<b>Applicant name</b>	Syngenta Australia Pty Ltd
<b>Applicant ACN</b>	002 933 717
<b>Date of variation</b>	28 November 2023
<b>Product registration no.</b>	58118
<b>Label approval no.</b>	58118/140989
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to registration and label particulars to remove state-based restraints and update the directions for use

<b>Application no.</b>	140990
<b>Product name</b>	Delan 700 WG Fungicide
<b>Active constituent</b>	700 g/kg dithianon
<b>Applicant name</b>	BASF Australia Ltd.
<b>Applicant ACN</b>	008 437 867
<b>Date of variation</b>	28 November 2023
<b>Product registration no.</b>	50029
<b>Label approval no.</b>	50029/140990
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to registration particulars, to add apple diseases and reduced rate in grape vines

<b>Application no.</b>	140964
<b>Product name</b>	Sipcam Echo 500 SC Fungicide
<b>Active constituent</b>	500 g/L chlorothalonil
<b>Applicant name</b>	Sipcam Pacific Australia Pty Ltd
<b>Applicant ACN</b>	073 176 888
<b>Date of variation</b>	28 November 2023
<b>Product registration no.</b>	50457
<b>Label approval no.</b>	50457/140964
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation of registration and label approval to change the distinguishable product name from 'Sipcam Pacific Echo 500 SC Fungicide' to 'Sipcam Echo 500 SC Fungicide', add additional use patterns in endive, grape leek, shallot, okra, onion, radish, sweet corn, and nasturtium; and to update the withholding periods, restraints, and safety directions

<b>Application no.</b>	140990
<b>Product name</b>	Delan 700 WG Fungicide
<b>Active constituent</b>	700 g/kg dithianon
<b>Applicant name</b>	BASF Australia Ltd.
<b>Applicant ACN</b>	008 437 867
<b>Date of variation</b>	28 November 2023
<b>Product registration no.</b>	50029
<b>Label approval no.</b>	50029/140990
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to registration particulars, to add apple diseases and reduced rate in grape vines

<b>Application no.</b>	141439
<b>Product name</b>	Antagonist Pro Residual Insecticide
<b>Active constituent</b>	80 g/L bifenthrin
<b>Applicant name</b>	Sundew Solutions Pty Ltd
<b>Applicant ACN</b>	135 400 261
<b>Date of variation</b>	29 November 2023
<b>Product registration no.</b>	67858
<b>Label approval no.</b>	67858/141439
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to registration particulars and particulars of label to extend the pack size range and list of situations for control of certain ants

<b>Application no.</b>	141203
<b>Product name</b>	Submarino Flupropanate 745 Herbicide
<b>Active constituent</b>	745 g/L flupropanate present as the sodium salt
<b>Applicant name</b>	Submarino Pty Ltd
<b>Applicant ACN</b>	616 055 559
<b>Date of variation</b>	29 November 2023
<b>Product registration no.</b>	92793
<b>Label approval no.</b>	92793/141203
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation of product registration and label approval to amend the withholding period

Table 3: Label approval

<b>Application no.</b>	141013
<b>Product name</b>	Contact Organics LocalSafe Weed Terminator N
<b>Active constituent</b>	444 g/L nonanoic acid
<b>Applicant name</b>	Contact Organics Pty Ltd
<b>Applicant ACN</b>	607 848 091
<b>Date of registration</b>	22 November 2023
<b>Product registration no.</b>	91093
<b>Label approval no.</b>	91093/141013
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a new label for the existing product 'Contact Organics LocalSafe Weed Terminator N' with the label name 'FireHawk Bioherbicide Concentrate'

<b>Application no.</b>	141014
<b>Product name</b>	Contact Organics HomeSafe Weed Terminator N Ready-to-Use Spray Mixture
<b>Active constituent</b>	28 g/L nonanoic acid
<b>Applicant name</b>	Contact Organics Pty Ltd
<b>Applicant ACN</b>	607 848 091
<b>Date of registration</b>	22 November 2023
<b>Product registration no.</b>	91866
<b>Label approval no.</b>	91866/141014
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a new label for the existing product 'Contact Organics HomeSafe Weed Terminator N Ready-to-Use Spray Mixture' with the label name 'FireHawk Bioherbicide Ready-to-Use Spray Mixture'

## Veterinary chemical products and approved labels

Pursuant to the Agricultural and Veterinary Chemicals Code scheduled to the *Agricultural and Veterinary Chemicals Code Act 1994*, the APVMA hereby gives notice that it has registered or varied the relevant particulars or conditions of the registration in respect of the following products and has approved the label or varied the relevant particulars or conditions of the approval in respect of the containers for the chemical product, with effect from the dates shown.

**Table 4: Veterinary products based on existing active constituents**

<b>Application no.</b>	137698
<b>Product name</b>	Oxfendate-Oral Broad Spectrum Worm Paste for Horses
<b>Active constituent/s</b>	Each 35 mL syringe contains: 9.1 g pyrantel embonate, 7.0 g oxfendazole
<b>Applicant name</b>	Randlab Australia Pty Ltd
<b>Applicant ACN</b>	114 948 837
<b>Date of registration</b>	21 November 2023
<b>Product registration no.</b>	93028
<b>Label approval no.</b>	93028/137698
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 9.1 g pyrantel embonate, 7.0 g oxfendazole in each 35 mL syringe oral paste product for the treatment and control of susceptible strains of all common worms of horses

<b>Application no.</b>	139980
<b>Product name</b>	Vetsense Ivermec Pour-on for Cattle
<b>Active constituents</b>	5 mg/mL ivermectin
<b>Applicant name</b>	Vetsense Pty Ltd
<b>Applicant ACN</b>	150 968 871
<b>Date of registration</b>	22 November 2023
<b>Product registration no.</b>	93625
<b>Label approval no.</b>	93625/139980
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 5 mg/mL ivermectin pour-on product for the treatment and control of internal and external parasites of cattle



<b>Application no.</b>	140812
<b>Product name</b>	Selamectin Spot on for Puppies and Kittens
<b>Active constituent</b>	60 mg/mL selamectin
<b>Applicant name</b>	Redcap Solutions Pty Ltd
<b>Applicant ACN</b>	095 863 899
<b>Date of registration</b>	27 November 2023
<b>Product registration no.</b>	93898
<b>Label approval no.</b>	93898/140812
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Registration of a 60 mg/mL selamectin topical spot-on product for the treatment and control of fleas, heartworm, ear mites in puppies, kittens and rabbits, sarcoptic mange in puppies and rabbits, intestinal hookworm and roundworm in kittens, lice in puppies and kittens, and cheyletiellosis in rabbits

Table 5: Variations of registration – veterinary chemical products

<b>Application no.</b>	139421
<b>Product name</b>	Quadseal Teat Sealant for Dry Cows
<b>Active constituent</b>	650 mg/g bismuth subnitrate
<b>Applicant name</b>	Imaginus Limited
<b>Applicant ACN</b>	N/A
<b>Date of variation</b>	28 November 2023
<b>Product registration no.</b>	92817
<b>Label approval no.</b>	92817/139421
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation of the relevant particulars of the product registration and label approval to update label name, add a new pack size and administration instructions and align the label to the Veterinary Labelling Code

<b>Application no.</b>	140458
<b>Product name</b>	Absorbine Ultrashield Insecticide & Repellent Ready for Use Spray for Horses
<b>Active constituents</b>	10 g/L piperonyl butoxide, 5 g/L permethrin 25:75 (cis:trans), 1 g/L pyrethrin
<b>Applicant name</b>	W F Young Inc
<b>Applicant ACN</b>	N/A
<b>Date of variation</b>	30 November 2023
<b>Product registration no.</b>	86134
<b>Label approval no.</b>	86134/140458
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to the relevant particulars of both the product and the label by including a new 3.8 L pack size

<b>Application no.</b>	141004
<b>Product name</b>	Oralbute Oral Paste Anti-inflammatory Analgesic for Horses
<b>Active constituent</b>	200 mg/mL phenylbutazone
<b>Applicant name</b>	Abbey Laboratories Pty Ltd
<b>Applicant ACN</b>	156 000 430
<b>Date of variation</b>	30 November 2023
<b>Product registration no.</b>	42362
<b>Label approval no.</b>	42362/141004
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to the relevant particulars of the product registration and label approval by adding a new pack size and instructions for use and aligning the label with the current Veterinary Labelling Code

<b>Application no.</b>	141167
<b>Product name</b>	Drontal Worming Suspension for Puppies
<b>Active constituents</b>	15 mg/mL febantel, 14.4 mg/mL pyrantel embonate (equivalent to 5 mg pyrantel base)
<b>Applicant name</b>	Vetoquinol Australia Pty Ltd
<b>Applicant ACN</b>	006 949 480
<b>Date of variation</b>	30 November 2023
<b>Product registration no.</b>	48642
<b>Label approval no.</b>	48642/141167
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation to the relevant particulars of the product and label by changing the instructions of use to align the label with the current Veterinary Labelling Code

<b>Application no.</b>	141303
<b>Product name</b>	Amoxi-sol
<b>Active constituents</b>	870 mg/g amoxicillin (as the trihydrate)
<b>Applicant name</b>	Dox-al Australia Pty Ltd
<b>Applicant ACN</b>	079 454 265
<b>Date of variation</b>	30 November 2023
<b>Product registration no.</b>	56236
<b>Label approval no.</b>	56236/141303
<b>Description of the application and its purpose, including the intended use of the chemical product</b>	Variation of product registration and label approval to amend the withholding period to zero (0) days for eggs and, update the trade advice statement to reflect an egg withholding interval of 14 days

## Approved active constituents

Pursuant to the Agricultural and Veterinary Chemicals Code scheduled to the *Agricultural and Veterinary Chemicals Code Act 1994*, the APVMA hereby gives notice that it has approved or varied the relevant particulars or conditions of the approval of the following active constituents, with effect from the dates shown.

**Table 6: Approved active constituents**

<b>Application no.</b>	138999
<b>Active constituent</b>	Bifenthrin
<b>Applicant name</b>	Agro-Alliance (Australia) Pty Ltd
<b>Applicant ACN</b>	130 864 603
<b>Date of approval</b>	21 November 2023
<b>Approval no.</b>	93407
<b>Description of the application and its purpose, including the intended use of the active constituent</b>	Approval of the active constituent bifenthrin for use in agricultural chemical products

<b>Application no.</b>	140119
<b>Active constituents</b>	Clomipramine hydrochloride
<b>Applicant name</b>	Dechra Veterinary Products (Australia) Pty Ltd
<b>Applicant ACN</b>	614 716 700
<b>Date of approval</b>	21 November 2023
<b>Approval no.</b>	93669
<b>Description of the application and its purpose, including the intended use of the active constituent</b>	Approval of the active constituent clomipramine hydrochloride for use in veterinary chemical products

<b>Application no.</b>	139477
<b>Active constituent</b>	Imidacloprid
<b>Applicant name</b>	Shandong Rainbow International Co Ltd
<b>Applicant ACN</b>	N/A
<b>Date of approval</b>	23 November 2023
<b>Approval no.</b>	93549
<b>Description of the application and its purpose, including the intended use of the active constituent</b>	Approval of the active constituent imidacloprid for use in agricultural chemical products

<b>Application no.</b>	139555
<b>Active constituent</b>	Pyroxasulfone
<b>Applicant name</b>	Anhui Yikai Agriculture Co., Ltd
<b>Applicant ACN</b>	N/A
<b>Date of approval</b>	23 November 2023
<b>Approval no.</b>	93566
<b>Description of the application and its purpose, including the intended use of the active constituent</b>	Approval of the active constituent pyroxasulfone for use in agricultural chemical products

<b>Application no.</b>	139465
<b>Active constituent</b>	Clodinafop-propargyl
<b>Applicant name</b>	Shandong Rainbow International Co Ltd
<b>Applicant ACN</b>	N/A
<b>Date of approval</b>	28 November 2023
<b>Approval no.</b>	93543
<b>Description of the application and its purpose, including the intended use of the active constituent</b>	Approval of the active constituent clodinafop-propargyl for use in agricultural chemical products

<b>Application no.</b>	138152
<b>Active constituent</b>	Dicylanil
<b>Applicant name</b>	B.J. Blue Pty Ltd
<b>Applicant ACN</b>	113594451
<b>Date of approval</b>	30 November 2023
<b>Approval no.</b>	93171
<b>Description of the application and its purpose, including the intended use of the active constituent</b>	Approval of the active constituent dicylanil for use in veterinary chemical products

**Table 7: Variations of active constituent**

<b>Application no.</b>	141335
<b>Active constituent</b>	Vitamin E Acetate (DL-Alpha-Tocopheryl Acetate)
<b>Applicant name</b>	Troy Laboratories Pty Ltd
<b>Applicant ACN</b>	000 283 769
<b>Date of variation</b>	23 November 2023
<b>Approval no.</b>	85649
<b>Description of the application and its purpose, including the intended use of the active constituent</b>	Variation of relevant particulars or conditions of an approved active constituent

## Licensing of veterinary chemical manufacturers

Pursuant to Part 8 of the Agricultural and Veterinary Chemicals Code (Agvet Code), scheduled to the *Agricultural and Veterinary Chemicals Code Act 1994*, the APVMA hereby gives notice that it has taken action with respect to the licensing of the following veterinary chemical manufacturers with effect from the dates shown.

For a comprehensive listing of all licensed manufacturers please see the [APVMA website](#).

### New licences

The APVMA has issued the following licences under subsection 123(1) of the Agvet Code:

**Table 8: New licences issued by the APVMA under subsection 123(1) of the Agvet Code**

Company name	Licence number	Company ACN	Address	Product types	Steps of manufacture	Date issued
Australian Pharmavet Contract Manufacturing Pty Ltd	2240	607 905 733	92 Antimony Street Carole Park Qld 4300	Category 2: Tablets, creams / lotions, ointments, pastes, powders, sprays, liquids, suspensions, and gels. Category 3: Liquids, sprays, and powders. Category 4: Premix (powders), and supplements (powders).	Quality assurance (QA) of raw materials, formulation including blending, dry milling, wet milling, granulation, tableting, tablet coating, filling, microbiological reduction treatment (heat), packaging, labelling, strip, blister or sachet packaging, secondary packaging, secondary labelling, analysis and testing (physical), storage, and release for supply.	27 November 2023
Australian Rickettsial Reference Laboratory	1121	103 665 621	CSIRO Australian Centre for Disease Preparedness 5 Portarlington Road Geelong Vic 3219	Category 1: Immunobiologicals	Quality assurance (QA) of raw materials, sterilisation (chemical), microbiological reduction treatment (chemical), analysis and testing (chemical, physical, microbiological, sterility testing, immunobiological, polymerase chain reaction (PCR)), propagation in eggs (egg inoculation, incubation and ultracentrifugation), antigen harvest, purification and inactivation, storage and release for supply.	28 November 2023

## Licence cancellations

The APVMA has cancelled the following licences under subsection 127(1) of the Agvet Code:

**Table 9: Licences cancelled by the APVMA under subsection 127(1) of the Agvet Code**

Company name	Licence number	Company ACN	Address	Date cancelled
Felton Grimwade & Bosisto's Pty Ltd	2053	004 809 161	61-81 Clarinda Rd Oakleigh South Vic 3167	27 November 2023

## APVMA contact

Manufacturing Quality and Licensing  
Australian Pesticides and Veterinary Medicines Authority  
GPO Box 3262  
Sydney NSW 2001

**Phone:** +61 2 6770 2301

**Email:** [mls@apvma.gov.au](mailto:mls@apvma.gov.au)

## Notice of cancellation at the request of the holder

At the request of the holder, in accordance with section 42(1) of the *Agricultural and Veterinary Chemicals Code Act 1994* (Agvet Code), the APVMA has cancelled the approvals and/or registrations set out in Table 10:

**Table 10: Active constituent approval/product registration/label approval cancelled at the request of the holder**

Approval or registration number	Name	Type of approval or registration	Holder	Reason for cancellation (if relevant pursuant to s 45A(3))	Date of cancellation
44154	Octhilinone	Active	Microbial Control (Australia) Pty Ltd	N/A	8 December 2023
46260	4,5-Dichloro-2-N-Octyl-3(2h)-Isothiazolone	Active	Microbial Control (Australia) Pty Ltd	N/A	8 December 2023
53125/0700	Kenock Water Soluble Liquid Herbicide	Label	Kendon Plant Care Pty Ltd	May not meet labelling criteria	8 December 2023
53816/0201 53816/122999	Smack Water Soluble Herbicide	Label	Imtrade Australia Pty Ltd	May not meet labelling criteria	8 December 2023
61689/101309 61689/41383 61689/117958	GP Flupropanate Granular Herbicide	Label	Granular Products Assets Pty Ltd	May not meet labelling criteria	8 December 2023
62019/0507	Genero 600 Flowable Seed Dressing Insecticide	Label	Echem (Aust) Pty Ltd	May not meet labelling criteria	8 December 2023
62514/0408	Titan Metolachlor 960 Herbicide	Label	Titan AG Pty Ltd	May not meet labelling criteria	8 December 2023
64852/0310	Farmalinx Open Range Herbicide	Label	Farmalinx Pty Ltd	May not meet labelling criteria	8 December 2023
65136/50241	Farmalinx Meteor 960 EC Herbicide	Label	Farmalinx Pty Ltd	May not meet labelling criteria	8 December 2023
66486/127395	Imtrade Metal Plus 960 EC Herbicide	Label	Imtrade Australia Pty Ltd	May not meet labelling criteria	8 December 2023
66920/54691	Farmalinx IMI 600 Seed Dressing Insecticide	Label	Farmalinx Pty Ltd	May not meet labelling criteria	8 December 2023
67076/55144 67076/102233 67076/123105	Apparent Rocky 745 Herbicide	Label	Titan AG Pty Ltd	May not meet labelling criteria	8 December 2023
67083/127198 67083/59015 67083/55153	Accensi Metolachlor 960 Herbicide	Label	Accensi Pty Ltd	May not meet labelling Criteria	8 December 2023
67103/55216	Strada Xtreme Herbicide	Label	Sipcam Pacific Australia Pty Ltd	May not meet labelling criteria	8 December 2023
68851/59213 68851/122634	Surefire Flupropanate Herbicide	Label	PCT Holdings Pty Ltd	May not meet labelling criteria	8 December 2023
68861/103578	Plafin Mosquito Coil	Label	Vinico SDN BHD	May not meet labelling criteria	8 December 2023
81167/102463	Ezycrop Flupropanate 745 Herbicide	Label	Ezycrop Pty Ltd	May not meet labelling criteria	8 December 2023
81278/102729 81278/127168 81278/129890	Hyena 960 Herbicide	Label	Crop Culture Pty Ltd	May not meet labelling criteria	8 December 2023



Approval or registration number	Name	Type of approval or registration	Holder	Reason for cancellation (if relevant pursuant to s 45A(3))	Date of cancellation
81853/104159	eChem S-Metol 960 Herbicide	Label	Echem (Aust) Pty Ltd	May not meet labelling criteria	8 December 2023
82395/105648 82395/112101	Immix 600 Seed Treatment	Label	Nutrien Ag Solutions Limited	May not meet labelling criteria	8 December 2023
83262/134998 83262/107862 83262/122724	Kelpie S-Meclor 960 Herbicide	Label	Sinochem International Australia Pty Ltd	May not meet labelling criteria	8 December 2023
84994/111988	Kelpie S-Met 960 EC Herbicide	Label	Sinochem International Australia Pty Ltd	May not meet labelling criteria	8 December 2023
85598/113716	Kenso Agcare Cossack 745 SL Herbicide	Label	Kenso Corporation (M) SDN. BHD.	May not meet labelling criteria	8 December 2023
86697/116398	RedQueen 600 Insecticide	Label	Sunrise Crop Science Co Ltd	May not meet labelling criteria	8 December 2023
86991/117250	Eureka! S-Metolachlor 960 EC	Label	Titan Ag Pty Ltd	May not meet labelling criteria	8 December 2023
87398/118268	F.S.A.S - Metolachlor 960 Herbicide	Label	Four Seasons Agribusiness Pty Ltd	May not meet labelling criteria	8 December 2023
87768/119214	Lookout 600 Seed Dressing	Label	Agnova Technologies Pty Ltd	May not meet labelling criteria	8 December 2023
88982/123090	Titan Flupropanate 745 SL Herbicide	Label	Titan AG Pty Ltd	May not meet labelling criteria	8 December 2023

In accordance with section 45A(1)(b) of the Agvet Code, the APVMA publishes this notice of the cancellation, including the following instructions which set out how a person can deal with the cancelled active constituent, cancelled product or product bearing a cancelled label referred to in Table 10.

## Instructions

Instructions for persons who possess, have custody of or use the cancelled active constituent, cancelled product, or the product bearing a cancelled label under section 45B(3) of the Agvet Code.

A person who possesses, has custody of or uses the cancelled active constituent, cancelled product or product bearing a cancelled label referred to in Table 10 in accordance with the instructions contained in this notice, is taken to have been issued with a permit under section 45B(3) of the Agvet Code to possess, have custody of or use the cancelled active constituent, cancelled product or product bearing a cancelled label, in accordance with those instructions.

## Possession or custody

A person may possess the cancelled active constituent, cancelled product or product bearing a cancelled label referred to in Table 10 in accordance with its label instructions for 12 months from the date of cancellation.

## Use, supply or otherwise deal with

A person may use the cancelled active constituent, cancelled product or products bearing a cancelled label referred to in Table 10 according to its label instructions, including any conditions relating to shelf life or expiry date, for 12 months after the date of cancellation.

A person may supply or cause to be supplied at wholesale or retail level the cancelled active constituent, cancelled product, or product bearing a cancelled label referred to in Table 10, for 12 months after the date of cancellation.

## Contraventions

After the day that is 12 months from the date of cancellation it will be an offence against the Agvet Code to have possession or custody of the cancelled active constituents, cancelled products or products bearing a cancelled label with the intention to supply, or to supply the cancelled active constituent, cancelled product, or product bearing a cancelled label.

It is an offence to possess, have custody of, use, or otherwise deal with the cancelled active constituents, cancelled products or products bearing the cancelled label listed in Table 10 in a manner that contravenes the above instructions.

## APVMA contact

For any enquiries or further information about this matter, please contact:

Chemical Review  
Australian Pesticides and Veterinary Medicines Authority  
GPO Box 3262  
Sydney NSW 2001

**Phone:** +61 2 6770 2400

**Email:** [chemicalreview@apvma.gov.au](mailto:chemicalreview@apvma.gov.au)

## More information

The APVMA publishes a list of voluntary cancellations at the request of the holder on its website, and provides a subscription option to be notified by email when the list is updated.

## Notice under section 34AB of the Agricultural and Veterinary Chemicals Code: Chlorpyrifos reconsideration – proposed decisions on reconsideration

- 1) The Australian Pesticides and Veterinary Medicines Authority (APVMA) is proposing to make regulatory decisions in relation to the reconsideration of chlorpyrifos active constituent approvals, product registrations, and label approvals being conducted under Part 2, Division 4 of the Agricultural and Veterinary Chemicals Code scheduled to the *Agricultural and Veterinary Chemicals Code Act 1994* (Agvet Code).
- 2) This notice is issued under section 34AB of the Agvet Code and relates to the reconsideration of chlorpyrifos active constituent approvals, product registrations and label approvals listed in Attachment A of this notice. This reconsideration extends to compliance with any requirement prescribed by the regulation for those approvals and registrations listed in Attachment A.
- 3) The Draft Statement of Reasons for the proposed course of action is included as Attachment B of this notice.
- 4) The information on which the reasons are based is set out in Attachment C of this notice.
- 5) Pursuant to section 34A(1) of the Agvet Code, the APVMA proposes to:
  - a. vary the conditions of chlorpyrifos active constituent approvals listed in Table 11 in Attachment A of this notice in the manner set out in paragraphs 9) and 20) of the statement of reasons in Attachment B, to allow affirmation under section 34(A)1 of the Agvet Code; and
  - b. vary the relevant particulars and conditions of the chemical product registrations listed in Table 11 in Attachment A of this notice in the manner set out paragraphs 31), 42), 50) and 53) of the statement of reasons in Attachment B, to allow affirmation under section 34(A)1 of the Agvet Code; and
  - c. vary the relevant particulars of the label approvals listed in Table 11 in Attachment A of this notice in the manner set out in paragraph 66) of the statement of reasons in Attachment B, and as reflected in the proposed sample labels in Attachment D, to allow affirmation under section 34(A)1 of the Agvet Code.
- 6) Pursuant to section 34AA(1) of the Agvet Code, the APVMA proposes to:
  - a. cancel the active constituent approvals listed in Table 2 in Attachment A of this notice, as the APVMA is not satisfied that the relevant particulars or conditions of the approvals can be varied in such a way as to allow the approvals to be affirmed; and
  - b. cancel the chemical product registrations listed in Table 2 in Attachment A of this notice, as the APVMA is not satisfied that the relevant particulars or conditions of the registrations can be varied in such a way as to allow the registrations to be affirmed; and
  - c. cancel the label approvals listed in Table 2 in Attachment A of this notice, as the APVMA is not satisfied that the relevant particulars or conditions of the approvals can be varied in such a way as to allow the approvals to be affirmed.

## Written submissions are invited

- 7) The APVMA invites written submissions on the proposed course of action. All submissions will be considered by the APVMA prior to finalisation of this reconsideration.
- 8) Submissions or requests for further information can be sent to:

Chemical Review  
Australian Pesticides and Veterinary Medicines Authority  
GPO Box 3262  
Sydney NSW 2001

**Phone:** +61 2 6770 2400  
**Email:** [chemicalreview@apvma.gov.au](mailto:chemicalreview@apvma.gov.au)

**Please note:** Submissions will be published on the APVMA website, unless you have asked for the submission to remain confidential (see [public submission coversheet](#)).

- Please lodge your submission with a [public submission coversheet](#), which provides options for how your submission will be published.
  - Note that all submissions received are subject to legislative requirements, including the *Freedom of Information Act 1982*, the *Privacy Act 1988* and the Agvet Code. In providing your submission to the APVMA, you agree to the APVMA publicly disclosing your submission in whole or summary form. The APVMA confirms that if your submission includes confidential commercial information or protected information as defined in the Agvet Code, such information will be subject to the relevant provisions of the Agvet Code including relevant limitations on use and disclosure by the APVMA.
- 9) The closing date for submissions is 11 March 2024.

Sheila Logan  
Executive Director, Risk Assessment Capability

With the delegated authority under sections 11, 32 and 44 of the *Agricultural and Veterinary Chemicals (Administration) Act 1992*.

Date: 12 December 2023

## Attachments

**Note:** The below Attachments form part of this Notice.

- Attachment A: Active constituent approval(s), product registration(s) and approved label(s) placed under reconsideration
- Attachment B: Draft Statement of Reasons
- Attachment C: Information on which the reasons are based.
- Attachment D: Proposed sample labels for chlorpyrifos chemical products.

## Contact information

For any enquiries or further information about this matter, please contact:

Chemical Review  
Australian Pesticides and Veterinary Medicines Authority  
GPO Box 3262  
Sydney NSW 2001

**Phone:** +61 2 6770 2400

**Email:** [chemicalreview@apvma.gov.au](mailto:chemicalreview@apvma.gov.au)

## Attachment A: Active constituent approval(s), product registration(s) and label approval(s) placed under reconsideration

**Table 11: Active constituent approval(s), product registration(s) and associated label approval(s) placed under reconsideration that the APVMA is proposing to vary to allow affirmation**

Type	Approval or registration number	Name	Holder	Label approval number(s) associated with the product	Proposed varied sample label associated with the product
Active constituent	44005	Chlorpyrifos	ADAMA Australia Pty Ltd	N/A	N/A
Active constituent	44111	Chlorpyrifos	Corteva Agriscience Australia Pty Ltd	N/A	N/A
Active constituent	44112	Chlorpyrifos	Corteva Agriscience Australia Pty Ltd	N/A	N/A
Active constituent	44113	Chlorpyrifos	Corteva Agriscience Australia Pty Ltd	N/A	N/A
Active constituent	44160	Chlorpyrifos	Corteva Agriscience Australia Pty Ltd	N/A	N/A
Product (agricultural)	45486	Strike-Out 500 EC Insecticide	ADAMA Australia Pty Ltd	45486/121082	Sample label 4
Active constituent	46888	Chlorpyrifos	Gharda Australia Pty Ltd	N/A	N/A
Active constituent	49124	Chlorpyrifos Manufacturing Concentrate	Corteva Agriscience Australia Pty Ltd	N/A	N/A
Active constituent	49340	Chlorpyrifos Manufacturing Concentrate	Corteva Agriscience Australia Pty Ltd	N/A	N/A
Product (agricultural)	49869	4Farmers Chlorpyrifos 500 Insecticide	4 Farmers Australia Pty Ltd	49869/120871	Sample label 3
Product (agricultural)	50387	Titan Chlorpyrifos 500 Termiticide and Insecticide	Titan Ag Pty Ltd	50387/121071	Sample label 4
Product (agricultural)	50452	Titan Chlorpyrifos PC 450 Insecticide	Titan Ag Pty Ltd	50452/121069	Sample label 2
Active constituent	50886	Chlorpyrifos	Imtrade Australia Pty Ltd	N/A	N/A
Product (agricultural)	51190	Imtrade Chlorpyrifos 500 Insecticide	Imtrade Australia Pty Ltd	51190/120804	Sample label 4
Product (veterinary)	51524	Y-TEX Warrior Insecticidal Cattle Ear Tags	Nutrien Ag Solutions Limited	51524/119797, 51524/111799, 51524/106701, 51524/50285, 51524/0303, 51524/0202, 51524/0999	Sample label 8
Product (agricultural)	51875	Pidgeon's Pest Controller 500 Termiticide and Insecticide	Pooma Fertilizers Pty Ltd	51875/121017	Sample label 4

Type	Approval or registration number	Name	Holder	Label approval number(s) associated with the product	Proposed varied sample label associated with the product
Product (agricultural)	53428	Generifos 500EC Insecticide	Grow Choice Pty Ltd	53428/120951	Sample label 3
Product (agricultural)	54546	Pyritilene Banana Bags	ADAMA Australia Pty Ltd	54546/0205, 54546/0404	Sample label 1
Product (agricultural)	55213	Kenso Agcare Kensban 500 Insecticide	Kenso Corporation (M) Sdn. Bhd.	55213/121084	Sample label 3
Active constituent	55457	Chlorpyrifos	Agrogill Chemicals Pty Ltd	N/A	N/A
Product (agricultural)	55755	Surefire Fortune 500 Multi-Purpose Insecticide and Termiticide	PCT Holdings Pty Ltd	55755/120774	Sample label 4
Product (agricultural)	55897	Conquest Chlorpyrifos 500 Insecticide	Conquest Crop Protection Pty Ltd	55897/121214, 55897/132968	Sample label 3
Active constituent	56174	Chlorpyrifos	Corteva Agriscience Australia Pty Ltd	N/A	N/A
Active constituent	60079	Chlorpyrifos	Agrogill Chemicals Pty Ltd	N/A	N/A
Product (agricultural)	60188	Genfarm Chlorpyrifos 500 Insecticide	Nutrien Ag Solutions Limited	60188/121006, 60188/128641	Sample label 4
Product (agricultural)	60611	Huilong Chlorpyrifos 500 EC Insecticide	Huilong Agrochemicals Australia Pty Ltd	60611/121217	Sample label 3
Product (agricultural)	61071	Strike-Out 500 WP Insecticide	ADAMA Australia Pty Ltd	61071/121112	Sample label 5
Active constituent	62025	Chlorpyrifos	Huilong Agrochemicals Australia Pty Ltd	N/A	N/A
Product (agricultural)	63086	Chemicide 500 Insecticide	Hextar Chemicals Pty Ltd	63086/120981	Sample label 3
Product (agricultural)	63145	AW Cuft 500 Insecticide and Termiticide	Agri West Pty Ltd	63145/121216	Sample label 4
Active constituent	64006	Chlorpyrifos	Netmatrix Crop Care Limited	N/A	N/A
Product (agricultural)	64319	Farmalinx Chlorpos 500 EC Insecticide	Farmalinx Pty Ltd	64319/121004	Sample label 3
Product (agricultural)	65160	Apparent Dingo 500 Insecticide	Titan Ag Pty Ltd	65160/121164	Sample label 4
Active constituent	65331	Chlorpyrifos	Nutrien Ag Solutions Limited	N/A	N/A
Active constituent	65346	Chlorpyrifos	Imtrade Australia Pty Ltd	N/A	N/A
Active constituent	65403	Chlorpyrifos	Sinon Australia Pty Ltd	N/A	N/A
Product (agricultural)	65556	Rainbow Chlorpyrifos 500 Insecticide	Shandong Rainbow International Co Ltd	65556/121116	Sample label 3

Type	Approval or registration number	Name	Holder	Label approval number(s) associated with the product	Proposed varied sample label associated with the product
Product (agricultural)	66354	Ozcrop Chlorpyrifos 500 EC Insecticide	Oz Crop Pty Ltd	66354/121036	Sample label 3
Active constituent	67331	Chlorpyrifos	Agroshine Australia Pty Ltd	N/A	N/A
Product (agricultural)	67451	Sabakem Chlorpyrifos 500EC Insecticide	Sabakem Pty Ltd	67451/121161	Sample label 3
Product (agricultural)	67887	Spalding Chlorpyrifos 500 Insecticide	DGL Environmental Pty Ltd	67887/121005	Sample label 3
Product (agricultural)	67984	Ezycrop Chlorpyrifos 500 Insecticide	Ezycrop Pty Ltd	67984/121026	Sample label 3
Product (agricultural)	68467	Chlorban 500 EC Insecticide	UPL Australia Pty Ltd	68467/121060, 68467/138449	Sample label 3
Product (agricultural)	68574	Accensi Micro-Lo Pre-Construction/Post-Construction Termiticide and Insecticide	Accensi Pty Ltd	68574/120878	Sample label 2
Product (agricultural)	68575	Accensi Pre-Construction/Post-Construction Termiticide and Insecticide	Accensi Pty Ltd	68575/120879	Sample label 2
Product (agricultural)	68745	AC Chop 500 Insecticide and Termiticide	Axichem Pty Ltd	68745/120954	Sample label 4
Product (agricultural)	69048	Smart Chlorpyrifos 500 Insecticide	Crop Smart Pty Ltd	69048/121027	Sample label 3
Product (agricultural)	69671	Agrocn Chlorpyrifos 500 EC Insecticide and Termiticide	Shanghai Agrochina Chemical Co. Ltd.	69671/120974	Sample label 4
Product (agricultural)	69776	Accensi Chlorpyrifos 500 Insecticide	Accensi Pty Ltd	69776/120874	Sample label 3
Active constituent	70330	Chlorpyrifos	Zhejiang Hengdian Imp. & Exp. Co Ltd	N/A	N/A
Product (agricultural)	70410	Pyrigran Insecticide	Sulphur Mills Australia Pty Ltd	70410/121073, 70410/134097	Sample label 7
Active constituent	81656	Chlorpyrifos	Sanonda (Australia) Pty Ltd	N/A	N/A
Product (agricultural)	81735	ACP Chlorpyrifos 500 Insecticide	Australis Crop Protection Pty Ltd	81735/120876	Sample label 3
Product (agricultural)	81786	Chlorphos 500EC Insecticide	Nutrien Ag Solutions Limited	81786/120982	Sample label 3
Active constituent	82263	Chlorpyrifos	Nutrien Ag Solutions Limited	N/A	N/A
Product (agricultural)	83386	Sharda Chlorpyrifos 500 Insecticide	Sharda Cropchem Espana S.L	83386/121085	Sample label 3



Type	Approval or registration number	Name	Holder	Label approval number(s) associated with the product	Proposed varied sample label associated with the product
Product (agricultural)	83426	Echem Chlorpyrifos 500 Insecticide	Echem (Aust) Pty Ltd	83426/121086	Sample label 3
Active constituent	83860	Chlorpyrifos	Crystal Crop Protection (Australia) Pty Ltd	N/A	N/A
Active constituent	86105	Chlorpyrifos	Krishi Rasayan Exports Pvt. Ltd	N/A	N/A
Product (agricultural)	86189	Sinon Chlorpyrifos 500 Insecticide	Sinon Australia Pty Ltd	86189/120853	Sample label 3
Product (agricultural)	86612	Arysta Lifescience Chlorpyrifos 500 EC Insecticide	Arysta Lifescience Australia Pty Ltd	86612/121076	Sample label 3
Active constituent	87692	Chlorpyrifos	Lianyungang Liben Crop Science Co., Ltd	N/A	N/A
Product (agricultural)	88651	Task 500 EC Insecticide	Hemani Industries Limited	88651/121907	Sample label 3
Product (agricultural)	89019	Kelpie Chlor-P 500 Insecticide & Termiticide	Sinochem International Australia Pty Ltd	89019/123174	Sample label 4
Product (agricultural)	89696	Clip Insecticide	Sharda Cropchem Espana S.L	89696/125819	Sample label 3
Product (agricultural)	89815	Relyon Chlorpyrifos 500 Insecticide	Nutrien Ag Solutions Limited	89815/128640, 89815/126171	Sample label 4
Product (agricultural)	90088	Imtrade Outplay 700 EC Insecticide	Imtrade Australia Pty Ltd	90088/127351	Sample label 6
Product (agricultural)	90204	Cropsure Sureban 500EC Insecticide	Cropsure Pty Ltd	90204/128069	Sample label 3
Product (agricultural)	90392	4Farmers Chlorpyrifos 750 WG Insecticide	4 Farmers Australia Pty Ltd	90392/128724	Sample label 7
Product (agricultural)	90395	Cropsure Sureban 750WG Insecticide	Cropsure Pty Ltd	90395/128734	Sample label 7
Product (agricultural)	91024	APS Chlorpyrifos 500 EC Insecticide	Agricultural Product Services Pty Ltd	91024/130772	Sample label 3
Product (agricultural)	91352	Agmerch Chlorpyrifos 500 Insecticide	Agmerch Pty Ltd	91352/131938	Sample label 3
Product (agricultural)	91691	Imtrade Outplay 700 Veriphy EC Insecticide	Imtrade Australia Pty Ltd	91691/133142	Sample label 6
Product (agricultural)	92193	Eurochem Chlorpyrifos 750 WG Insecticide	Eurochem Pty Ltd	92193/134808	Sample label 7
Product (agricultural)	92590	IA Outplay 700 Veriphy EC Insecticide	Imtrade Australia Pty Ltd	92590/135976	Sample label 6

**Table 12: Active constituent approval(s), product registration(s) and associated label approval(s) placed under reconsideration that the APVMA is proposing to cancel.**

Type	Approval or registration number	Name	Holder	Label approval number(s) associated with the product
Product (agricultural)	42284	David Grays Chlorpyrifos 500	David Gray & Co Pty Ltd	42284/121034
Active constituent	47155	Chlorpyrifos	Sumitomo Chemical Australia Pty Ltd	N/A
Active constituent	48521	Chlorpyrifos	FMC Australasia Pty Ltd	N/A
Product (agricultural)	49666	Barmac Chlorpyrifos G Granular Insecticide	Amgrow Pty Ltd	49666/121137
Product (agricultural)	50416	Suscon Green Soil Insecticide	Nufarm Australia Limited	50416/0501, 50416/1102
Active constituent	58019	Chlorpyrifos	Coromandel Australia Pty Ltd	N/A
Product (agricultural)	62672	Sabero Chlorpyrifos 500EC Insecticide	Coromandel Australia Pty Ltd	62672/0809
Active constituent	67013	Chlorpyrifos	Sharda Worldwide Exports Pvt Ltd	N/A
Product (agricultural)	68781	Pyrinex Super Insecticide / Miticide	ADAMA Australia Pty Ltd	68781/102675, 68781/59066
Active constituent	70430	Chlorpyrifos	Sabakem Pty Ltd	N/A
Active constituent	80115	Chlorpyrifos	Aimco Kr Australia Pty Ltd	N/A
Product (agricultural)	87086	Guangxin Chlorpyrifos 500 EC Insecticide	Anhui Guangxin Agrochemical Co Ltd	87086/117508
Product (agricultural)	89312	Delfos 5G Insecticide	Industrial Quimica Key, S.A.	89312/124386
Product (agricultural)	90087	Imtrade Outperform 630 EC Insecticide/Miticide	Imtrade Australia Pty Ltd	90087/127339
Product (agricultural)	91222	IA Outperform 630 EC Insecticide/Miticide	Imtrade Australia Pty Ltd	91222/131430
Product (agricultural)	91672	Imtrade Outperform 630 Veriphy EC Insecticide/Miticide	Imtrade Australia Pty Ltd	91672/133090
Product (agricultural)	92594	IA Outperform 630 Veriphy EC Insecticide/Miticide	Imtrade Australia Pty Ltd	92594/135981

## Attachment B: Statement of Reasons

- 1) The APVMA has reconsidered the chemistry, toxicology, worker exposure, residues, trade and environmental aspects of the chlorpyrifos active constituent approvals, chemical product registrations containing chlorpyrifos and associated label approvals under Part 2, Division 4 of the Code scheduled to the *Agricultural and Veterinary Chemicals Code Act 1994* (Agvet Code) to determine whether the
  - a) active constituents meet the safety criteria (section 5A of the Agvet Code),
  - b) chemical products meet the safety criteria (section 5A of the Agvet Code), the trade criteria (section 5C of the Agvet Code), and the efficacy criteria (section 5B of the Agvet Code),
  - c) labels meet the labelling criteria (section 5D of the Agvet Code), and
  - d) active constituents, chemical products and labels comply with the requirements prescribed by the Agricultural and Veterinary Chemicals Code Regulations 1995 (Agvet Regulations).

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## Material findings of fact and reasons for the proposed decisions

### Active constituents

- 2) Section 34(1) of the Agvet Code provides that the APVMA must affirm the approval of an active constituent if, and only if, it is satisfied that the constituent:
  - a) meets the safety criteria, and
  - b) complies with any requirement prescribed by the Agvet Regulations.
- 3) Section 34(2) of the Agvet Code provides that subsection 34(1) applies only to the extent that the APVMA decides to reconsider matters covered by this subsection.
- 4) The APVMA has decided to reconsider all matters covered by subsection 34(1) in relation to the reconsideration of chlorpyrifos active constituent approvals.

### Consideration of whether active constituents meet the safety criteria

- 5) Section 5A(1) of the Agvet Code provides that an active constituent meets the safety criteria if use of the active constituent, in accordance with any instructions approved or to be approved by the APVMA for the constituent:
  - a) is not, or would not be an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues (section 5A(1)(a)).
  - b) is not, or would not be likely to have an effect that is harmful to human beings (section 5A(1)(b)).
  - c) is not, or would not be likely to have an unintended effect that is harmful to animals, plants or things or to the environment (section 5A(1)(c)).
- 6) For the purposes of being satisfied that the active constituents meet the safety criteria as described in section 5A(1)(a) to (c) of the Agvet Code, the APVMA has had regard to the criteria set out in section 5A(2)(a) of the Agvet Code as follows:
  - a) Section 5A(2)(a)(i) of the Agvet Code – the toxicity of the constituent and its residues, including metabolites and degradation products in relation to relevant organisms and ecosystems, including human beings.
    - I. The APVMA has considered the following information in having regard to the toxicity of the constituent chlorpyrifos and its residues:
      - acute toxicity, short-term repeat-dose, subchronic toxicity, chronic toxicity, reproductive toxicity, developmental toxicity, genotoxicity, neurotoxicity and human exposure studies, as detailed in the *Chlorpyrifos interim review report: Toxicology assessment*.
      - additional studies on the developmental effects, neurodevelopmental hazards and neurobehavioral developmental hazards of chlorpyrifos, as detailed in the *Reconsideration of chlorpyrifos: Toxicology update*.
      - the impact of impurities of toxicological concern.
      - studies of the absorption, distribution, metabolism and excretion of chlorpyrifos in mammals.

- environmental toxicity studies on the effects of chlorpyrifos and its residues on mammals, birds, fish, aquatic invertebrates, aquatic sediment dwellers, algae, aquatic plants, bees, non-target arthropods, soil organisms and non-target terrestrial plants, as detailed in the *Chlorpyrifos Review Technical Report*.
- II. The APVMA is satisfied that the following health based guidance values for chlorpyrifos remain appropriate, as set out in the *Chlorpyrifos Review Technical Report*.
- the acceptable daily intake (ADI<sup>1</sup>) of 0.001 mg/kg bw/day based on the repeat oral dose no observable effect level (NOEL) of 0.1 mg/kg bw/d for inhibition of blood cholinesterases (blood acetyl- and butyrylcholinesterases) in rats, with a 100-fold safety factor to account for intra- and inter-species differences.
  - the chlorpyrifos acute reference dose (ARfD<sup>2</sup>) is 0.03 mg/kg bw/day based on a NOEL of 1 mg/kg bw for inhibition of erythrocyte cholinesterase in humans, with a 10-fold safety factor to account for intraspecies differences and a 10<sup>0.5</sup>-fold safety factor to account for any additional uncertainties associated with the limitations of the underlying study.
- III. The APVMA is satisfied that the scheduling for chlorpyrifos in the Standard for the Uniform Scheduling of Medicines and Poisons remains appropriate for reasons set out in the *Chlorpyrifos Review Technical Report*.
- IV. The APVMA is satisfied that the following regulatory acceptable levels for exposure of non-target species are adequately protective, as set out in the *Chlorpyrifos Review Technical Report*.
- mammals – 9.7 mg ac/kg bw for acute exposure and 1.0 mg ac/kg bw/d for chronic exposure.
  - birds – 3.2 mg ac/kg bw for acute exposure and 2.9 mg ac/kg bw/d for chronic exposure.
  - aquatic species – 0.00010 mg ac/L for both acute and chronic exposure.
  - bees – 0.030 µg ac/bee for acute contact exposure of adult bees, 0.084 µg ac/bee for acute oral exposure of adult bees and 0.0084 µg ac/bee for acute oral exposure of bee larvae.
  - soil organisms – 7.6 mg ac/kg ds for acute exposure of macro-organisms and 6.4 mg ac/kg ds for chronic exposure of macro-organisms and micro-organisms.
  - terrestrial plants – 1200 g ac/ha for both pre-emergent and post-emergent exposure.
- V. The APVMA is satisfied that there is sufficient information to assess the role of the toxicity of the constituent chlorpyrifos and its metabolites in relation to relevant organisms and ecosystems, including human beings.
- VI. The worker exposure assessment detailed in the *Chlorpyrifos Review Technical Report* has identified acceptable levels of occupational exposure to chlorpyrifos, applying a margin of exposure of 100 to a point of departure of 0.1 mg/kg bw/day.

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<sup>1</sup> ADI – acceptable daily intake (for humans): a level of intake of a chemical (expressed mg/kg bw/day; milligrams per kilogram of body weight per day) that can be ingested daily over an entire lifetime without any appreciable risk to health.

<sup>2</sup> ARfD – acute reference dose (for humans): the amount of a substance in food or drinking-water, (expressed as mg/kg of body weight), that can be ingested or absorbed over 24 hours or less, without appreciable health risk.

- VII. The residues assessment detailed in the *Chlorpyrifos Review Technical Report* has confirmed that the acute and chronic dietary exposure to chlorpyrifos calculated using the National Estimated Dietary Intake calculation, after variation of the uses of chlorpyrifos chemical products as proposed in paragraphs 31), 42) and 53), below, are acceptable based on the ADI of 0.001 mg/kg bw/d and the ARfD of 0.03 mg/kg bw/day.
- VIII. The environmental exposures assessment detailed in the *Chlorpyrifos Review Technical Report* has identified acceptable levels of non-target species exposure to chlorpyrifos based on the regulatory acceptable levels for mammals, birds, aquatic species, bees, soil organisms and terrestrial plants set out above.
- b) Section 5A(2)(a)(ii) of the Agvet Code – the method by which the constituent is, or is proposed to be, manufactured.
- I. The APVMA has considered the method of manufacture details submitted and assessed by the APVMA as part of the original approval for each source of chlorpyrifos active constituent.
- II. The APVMA remains satisfied that the method by which each chlorpyrifos active constituent approval in Table 11 in Attachment A of this notice is manufactured remains appropriate.
- III. The APVMA is **not satisfied** of the method by which the chlorpyrifos active constituent approvals in Table 2 in Attachment A of this notice are manufactured, noting the proposed increase in the chlorpyrifos minimum purity requirements detailed in the *Chlorpyrifos Review Technical Report* and in paragraph 6)c of this statement of reasons.
- c) Section 5A(2)(a)(iii) of the Agvet Code – the extent to which the constituent will contain impurities.
- I. Having regard to the extent to which the constituent chlorpyrifos will contain impurities, the APVMA has considered:
- the minimum chlorpyrifos purity and maximum impurity level requirements for active constituents, as set out in the Declaration of Compositions that were submitted and assessed by the APVMA as part of the original approval; and
  - the specification for chlorpyrifos in the Food and Agriculture Organization of the United Nations Specifications for Pesticides established in 2020 and associated evaluations, as detailed in the *Chlorpyrifos Review Technical Report*.
- II. The chemistry assessment detailed in the *Chlorpyrifos Review Technical Report* has identified that a minimum purity of 970 g/kg chlorpyrifos is appropriate, based on the chlorpyrifos specification in the Food and Agriculture Organization of the United Nations Specifications for Pesticides and associated evaluations.
- III. The APVMA is satisfied that chlorpyrifos minimum purity requirement set out in the Declaration of Composition for each active constituent approval in Table 11 in Attachment A of this notice remains appropriate.
- IV. The APVMA is **not satisfied** that chlorpyrifos minimum purity requirement set out in the Declaration of Composition for each active constituent approval in Table 2 in Attachment A of this notice is appropriate, noting the proposed increase in the chlorpyrifos minimum purity requirements detailed in the *Chlorpyrifos Review Technical Report*.

- V. The APVMA is satisfied that the maximum impurity levels for chlorpyrifos set out in the Declarations of Composition for each source of chlorpyrifos active constituent remains appropriate. Specifically, that a maximum level of less than or equal to 3 g/kg for the toxicologically significant impurity 0,0,0',0'-tetraethyl dithiopyrophosphate (S,S-TEPP) is adequately protective.
- d) Section 5A(2)(a)(iv) of the Agvet Code – whether an analysis of the chemical composition of the constituent has been carried out and, if so, the results of the analysis.
- I. The APVMA has considered the batch analyses that were submitted and assessed by the APVMA as part of the original approval for each source of chlorpyrifos.
- II. The APVMA is satisfied that the batch analyses for each active constituent approval in Table 11 in Attachment A of this notice demonstrate that the chemical composition of these chlorpyrifos approvals remain appropriate.
- III. The APVMA is **not satisfied** that the batch analyses for each active constituent approval in Table 2 in Attachment A of this notice demonstrate that the chemical composition of these chlorpyrifos approvals are acceptable, noting the proposed increase in the chlorpyrifos minimum purity requirements detailed in the *Chlorpyrifos Review Technical Report* and in paragraph 6)c of this statement of reasons.
- e) Section 5A(2)(a)(v) of the Agvet Code – any conditions to which its approval is, or would be, subject.
- I. Section 23(1)(a) of the Agvet Code provides that the approval of an active constituent is subject to the conditions prescribed by the regulations (whether or not the conditions are prescribed at the time the constituent is approved).
- Regulation 17C of the Agvet Regulations prescribes the following:
    - The active constituent must be manufactured in accordance with the composition and purity entered for that source of active constituent in the Record in accordance with regulation 15(1)(d) of the Agvet Regulations.
    - The active constituent must be manufactured by the manufacturer whose name is entered for the active constituent in the Record in accordance with regulation 15(1)(e) of the Agvet Regulations.
    - The active constituent must be manufactured at the site of manufacture entered for the active constituent in the Record in accordance with regulation 15(1)(f) of the Agvet Regulations.
    - The identifying information for the holder of the approval and the nominated agent (if any), of the active constituent must be the identifying information for the holder and nominated agent (if any) entered for the active constituent in the Record.
- II. Section 23(1)(b) of the Agvet Code provides that the approval of an active constituent is also subject to any conditions imposed on the approval as the APVMA thinks appropriate.
- III. In determining whether the active constituents meet the safety criteria, the APVMA has had regard to the following conditions imposed by the APVMA in accordance with section 23(1)(b) of the Agvet Code referred to as the Agricultural Active Constituents Quality Assurance Requirements.
- *“Agricultural Active Constituents must meet Quality Assurance Requirements*



- *A person must not Supply the Active Constituent, or cause it to be supplied, unless the Active Constituent:*
    - *complies with the APVMA Standard for the Active Constituent; and*
    - *was manufactured at a site of manufacture listed in the Record of Approved Active Constituents.*
  - *A person must at the time of Supply of a Batch of the Active Constituent to another person also supply details of the Batch Number of the Active Constituent to the person to whom the active constituent was supplied.*
  - *For the purposes of these conditions a constituent complies with the APVMA Standard if the constituent, when measured using a validated analytical method:*
    - *does not contain less than the minimum purity and/or content of the constituent as set out in the APVMA Standard; and*
    - *does not contain more than the maximum level of any impurity as set out in the APVMA Standard*
  - *Definitions and Interpretation – in these conditions the following words have the following meanings:*
    - *'APVMA Standard' means the standard determined by the APVMA to which a constituent must comply and which is published on the APVMA website;*
    - *'Batch' means a defined quantity of material produced in a single series of operations;*
    - *'Batch Number' means that a distinctive combination of numbers and/or letters that specifically identifies a Batch and from which the production history can be determined;*
    - *'Supply' has the same meaning as given to it in Section 3 of the Agvet Codes and includes the doing of those things through, or pursuant to an arrangement with another person."*
- IV. In determining whether the active constituents meet the safety criteria, the APVMA has also had regard to conditions imposed on active constituents by the Agricultural and Veterinary Chemicals Code (Conditions of Approval or Registration) Order 2021.
- V. The APVMA is satisfied that the conditions prescribed by the Agvet Regulations, detailed above, and the conditions imposed by the Agricultural and Veterinary Chemicals Code (Conditions of Approval or Registration) Order 2021 remain appropriate.
- VI. The APVMA is **not satisfied** that the current condition referred to as the 'Active constituent Quality Assurance Requirements' remains appropriate, as it references the "APVMA Standard" and indicates this is published on the APVMA Website. The "APVMA Standard" has been replaced by the legislative instrument Agricultural and Veterinary Chemicals Code (Agricultural Active Constituents) Standards 2022 (Agricultural Active Constituents Standards 2022).
- f) Section 5A(2)(a)(vi) of the Agvet Code - any relevant particulars that are, or would be, entered in the Record for the constituent.

- I. The particulars on the record for each approved source of the active constituent chlorpyrifos have been reviewed including: the name of the active (including the IUPAC name), the composition and purity of the active, the name of the manufacturer, the address of each site at which the active constituent is manufactured, the holder of the approval, the date of entry of these particulars and, if relevant, the nominated agent.
  - II. The APVMA is **not satisfied** that the relevant particulars entered into the Record for active constituent approvals in Table 2 in Attachment A of this notice remain appropriate in relation to the composition and purity of the active constituent, noting the proposed increase in the chlorpyrifos minimum purity requirements detailed in the *Chlorpyrifos Review Technical Report* and in paragraph 6)c of this statement of reasons.
  - III. The APVMA is satisfied that the other relevant particulars entered into the Record for chlorpyrifos active constituent approvals remain appropriate.
- g) Section 5A(2)(a)(via) of the Agvet Code – whether the constituent conforms, or would conform, to any standard made for the constituent under section 6E to the extent that the standard relates to matters covered by subsection 5A(1).
- I. The Agricultural Active Constituents Standards 2022 was made under section 6E(1) of the Agvet Code for active constituents used in agricultural chemical products, including chlorpyrifos.
  - II. The APVMA is satisfied that each source of chlorpyrifos active constituent listed in Table 11 would conform to the revised chlorpyrifos standard proposed to be made in the Agricultural Active Constituents Standards 2022 as outlined in the *Chlorpyrifos Review Technical Report*. It is noted that the process for varying a Standard made under 6E(1) of the Agvet Code is set out in regulation 8AF of the Agvet Regulations and will be undertaken separately to this proposed regulatory decision.
- h) Section 5A(2)(a)(vii) of the Agvet Code – any matters prescribed by the regulations.
- I. Regulation 8AA – the method of analysis (if any) of the chemical composition of the active constituent concerned.
    - There were no concerns identified for the method(s) of analysis used to determine the purity of chlorpyrifos for each approved source of the active constituent. The APVMA remains satisfied of the method(s) of analysis of the chemical composition of each approved source of the chlorpyrifos active constituent.
- i) Section 5A(2)(b) of the Agvet Code – such other matters as the APVMA thinks relevant.
- I. There are no other matters that the APVMA thinks relevant regarding whether chlorpyrifos active constituents meet the safety criteria.
- 7) The APVMA is therefore **not satisfied** that the use of the chlorpyrifos active constituents, in accordance with instructions approved by the APVMA for the constituents meets the safety criteria in that the use of the constituents:
- a) is not, or would not be, an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues; and
  - b) is not, or would not be, likely to have an effect that is harmful to human beings; and

- c) is not, or would not be, likely to have an unintended effect that is harmful to animals, plants or things or to the environment.

### Consideration of whether active constituents can be varied to meet the safety criteria

- 8) Section 34A(1) provides that if the APVMA is **not satisfied** under section 34(1) but is satisfied that the relevant particulars or conditions of the approval can be varied in such a way as to allow the registration to be affirmed, the APVMA must vary the relevant particulars or conditions.
- 9) The APVMA has considered whether active constituent approvals can be varied in such a way as to meet the safety criteria set out in Section 5A(1) as follows:
- a) In relation to the active constituent approvals in Table 2 in Attachment A of this notice, to address concerns identified in paragraphs 6)b), 6)c), 6)d) and 6)f), when considering the matters set out in sections 5A(2)(a)(ii), 5A(2)(a)(iii), 5A(2)(a)(iv) and 5A(2)(a)(vi) of the Agvet Code:
- I. The APVMA has considered the information submitted and assessed by the APVMA as part of the original approval, including the method of manufacture, the Declaration of Composition, the batch analyses and relevant particulars entered into the Record.
  - II. The APVMA is **not satisfied** that there is sufficient information to demonstrate that the chlorpyrifos active constituent approvals listed in Table 2 in Attachment A of this notice can be manufactured with a minimum purity of 970 g/kg chlorpyrifos.
- b) To address concerns identified in paragraph 6)e) which relate to all chlorpyrifos active constituent approvals, when considering the matters set out in section 5A(2)(a)(v) of the Agvet Code, the APVMA proposes to vary the conditions referred to as the 'Active Constituent Quality Assurance Requirements' so as to substitute the reference to the "APVMA standard" with the Agricultural Active Constituents Standards 2022 as follows:
- I. *"Agricultural Active Constituents must meet Quality Assurance Requirements*
    - *A person must not Supply the Active Constituent, or cause it to be supplied, unless the Active Constituent:*
      - *complies with the Agricultural and Veterinary Chemicals Code (Agricultural Active Constituents) Standards 2022 (Active Constituent Standard 2022); and*
      - *was manufactured at a site of manufacture listed in the Record of Approved Active Constituents.*
    - *A person must at the time of Supply of a Batch of the Active Constituent to another person also supply details of the Batch Number of the Active Constituent to the person to whom the active constituent was supplied.*
    - *A constituent complies with the Active Constituent Standard 2022; if the constituent, when measured using a validated analytical method:*
      - *does not contain less than the minimum purity and/or content of the constituent as set out in the Active Constituent Standard 2022; and*
      - *does not contain more than the maximum level of any impurity as set out in the Active Constituent Standard 2022.*

- *Definitions and interpretation: In these conditions the following words have the following meanings:*
  - *'Batch' means a defined quantity of material produced in a single series of operations;*
  - *'Batch Number' means that a distinctive combination of numbers and/or letters that specifically identifies a Batch and from which the production history can be determined;*
  - *'Supply' has the same meaning as given to it in section 3 of the Agvet Code."*

10) The APVMA is therefore satisfied that the relevant particulars or conditions of the active constituent approvals in Table 1 in Attachment A of this notice can be varied in the ways set out in paragraph 9), so that the use of the chlorpyrifos active constituents, in accordance with instructions approved by the APVMA for the constituents would meet the safety criteria and the use of the constituents:

- a) is not, or would not be, an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues; and
- b) is not, or would not be, likely to have an effect that is harmful to human beings; and
- c) is not, or would not be, likely to have an unintended effect that is harmful to animals, plants or things or to the environment.

11) The APVMA is **not satisfied** that the relevant particulars or conditions of the active constituent approvals in Table 2 in Attachment A of this notice can be varied in such a way so that use of the chlorpyrifos active constituents, in accordance with instructions approved by the APVMA for the constituents would meet the safety criteria and the use of the constituents:

- a) is not, or would not be, an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues; and
- b) is not, or would not be, likely to have an effect that is harmful to human beings; and
- c) is not, or would not be, likely to have an unintended effect that is harmful to animals, plants or things or to the environment.

### **Consideration of whether active constituents comply with any requirement prescribed by the regulations**

12) Regulation 15 prescribes the particulars of active constituents which must be recorded in the Record in accordance with section 19(c) of the Agvet Code.

- a) The APVMA has had regard to the particulars recorded in the Register for each chlorpyrifos active constituent.
- b) As outlined in paragraph 6)f) above, the APVMA is **not satisfied** that the relevant particulars entered into the Record for active constituent approvals in Table 2 in Attachment A of this notice remain appropriate in relation to the composition and purity of the active constituent. The APVMA is satisfied that the other relevant particulars recorded in the Record for chlorpyrifos active constituent approvals remain appropriate.

13) Regulation 17C(1) prescribes that conditions to which the approval of an active constituent is subject to (whether or not the conditions are prescribed at the time the constituent is approved) in accordance with section 23(1)(a) of the Agvet Code.

- a) The APVMA is satisfied that the conditions prescribed in Regulation 17C(1) remain appropriate for each chlorpyrifos active constituent approval.
- 14) The APVMA is satisfied that the chlorpyrifos active constituent approvals in Table 11 in Attachment A of this notice meet the prescribed regulations.
- 15) The APVMA is **not satisfied** that the chlorpyrifos active constituent approvals in Table 2 in Attachment A of this notice meet the prescribed regulations.

### **Consideration of whether active constituents in Table 2 in Attachment A of this notice can be varied to comply with any requirement prescribed by the regulations**

- 16) Section 34A(1) provides that if the APVMA is not satisfied under section 34(1) but is satisfied that the relevant particulars or conditions of the approval can be varied in such a way as to allow the registration to be affirmed, the APVMA must vary the relevant particulars or conditions.
- 17) The APVMA has considered whether active constituent approvals in Table 2 in Attachment A of this notice can be varied in such a way as to meet the prescribed regulations as follows:
- a) To address concerns identified in relation to the particulars prescribed under regulation 15 of the Agvet Regulation, and as outlined in paragraph 9)a) above, the APVMA is **not satisfied** that there is sufficient information to demonstrate that the chlorpyrifos active constituent approval listed in Table 2 in Attachment A of this notice can be manufactured with a minimum purity of 970 g/kg chlorpyrifos.
- 18) The APVMA is therefore **not satisfied** that the particulars of the chlorpyrifos active constituent approvals in Table 2 in Attachment A of this notice can be varied in such a way so that they meet the prescribed regulations.

### **Conclusion of consideration of active constituents**

- 19) Section 34A(1) of the Agvet Code provides that if the APVMA is not satisfied that the active constituent currently meets the safety criteria or complies with any requirement prescribed by the Agvet Regulations, but is satisfied that the relevant particulars or conditions of the approval can be varied in such a way as to allow the approval to be affirmed, the APVMA must vary the relevant particulars or conditions.
- 20) The APVMA is satisfied that the chlorpyrifos active constituent approvals in Table 11 in Attachment A of this notice comply with the requirements prescribed in the Agvet Regulations and can be varied to meet the safety criteria as follows:
- a) Impose the varied condition of approval referred to as the 'Active Constituent Quality Assurance Requirements' set out in paragraph 9)b) of this statement of reasons on each chlorpyrifos active constituent approval in in Table 11 in Attachment A of this notice under section 23(1)(b) of the Agvet Code.
- 21) The APVMA is **not satisfied** that the particulars for the chlorpyrifos active constituent approvals in Table 2 in Attachment A of this notice can be varied in such a way to allow the approval to be affirmed for the following reasons:
- a) The APVMA is **not satisfied** that there is sufficient information to demonstrate that the chlorpyrifos active constituent approval listed in Table 2 in Attachment A of this notice can be manufactured with a minimum purity of 970 g/kg chlorpyrifos.

- 22) Section 34AA(1) of the Agvet Code provides that if the APVMA does not affirm the approval, it must suspend or cancel the approval.

## Chemical products

- 23) Section 34(1)(b) and (d) of the Agvet Code provides that the APVMA must affirm the registration for a chemical product if, and only if, it is satisfied that the product:
- a) meets the safety criteria (section 5A),
  - b) meets the efficacy criteria (section 5B),
  - c) meets the trade criteria (section 5C), and
  - d) complies with any requirement prescribed by the regulations.
- 24) Section 34(2) of the Agvet Code provides that subsection 34(1) applies only to the extent that the APVMA decides to reconsider matters covered by the subsection.
- 25) The APVMA has decided to reconsider all matters covered by subsection 34(1) in relation to the reconsideration of chlorpyrifos chemical product registrations.
- a) For chemical products containing a combination of active constituents, the APVMA has decided to reconsider the matters covered by subsections 34(1)(b) and (d) only to the extent that they relate to the fact that the chemical product contains the active constituent chlorpyrifos.
    - I. Y-TEX Warrior Insecticidal Cattle Ear Tags (Registration Number 51524) contains the second active constituent diazinon and remains subject to the ongoing reconsideration of diazinon approvals and registrations.
    - II. The impact of the second active constituent bifenthrin on relevant chemical product registrations will be considered based on previous assessments of this active constituent.

## Consideration of whether registered chemical products meet the safety criteria

- 26) Section 5A(1) of the Agvet Code provides that a chemical product meets the safety criteria if use of the product, in accordance with any instructions approved or to be approved by the APVMA for the constituent or product or contained in an established standard:
- a) is not, or would not be, an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues (section 5A(1)(a))
  - b) is not, or would not be, likely to have an effect that is harmful to human beings (section 5A(1)(b))
  - c) is not, or would not be, likely to have an unintended effect that is harmful to animals, plants or things or to the environment (section 5A(1)(c)).
- 27) For the purposes of being satisfied that the chlorpyrifos chemical products meet the safety criteria, the APVMA has had regard to the criteria set out in section 5A(3)(a) of the Agvet Code as follows:

- a) Section 5A(3)(a)(i) of the Agvet Code - the toxicity of the product and its residues, including metabolites and degradation products, in relation to relevant organisms and ecosystems, including human beings:
- I. The APVMA has considered the following information in having regard to the toxicity of chlorpyrifos chemical products and their residues:
    - information on the toxicity of the constituent chlorpyrifos and its residues, as set out in paragraph 6)a) and the references therein, including the chlorpyrifos health based guidance values and regulatory acceptable levels for exposure of non-target species.
    - the impact of any formulation excipients (in particular, designated solvents listed in the Standard for the Uniform Scheduling of Medicines and Poisons), and where relevant the active constituents bifenthrin and diazinon, on the toxicity of the chlorpyrifos chemical products to relevant organisms and ecosystems, including human beings.
    - environmental toxicity studies on the effects of formulated chlorpyrifos products on non-target species, as detailed in the *Chlorpyrifos Review Technical Report*.
  - II. The APVMA is satisfied that the ADI of 0.001 mg/kg bw/day and the ARfD of 0.03 mg/kg bw/day for the constituent chlorpyrifos are adequately protective of human health, as set out in the *Chlorpyrifos Review Technical Report*.
  - III. The APVMA is satisfied that applying a margin of exposure of 100 to a point of departure of 0.1 mg/kg bw/day is adequately protective for use of chlorpyrifos chemical products by occupational handlers, as set out in the *Chlorpyrifos Review Technical Report*.
  - IV. The APVMA is satisfied that applying a margin of exposure of 32 to a point of departure of 0.1 mg/kg bw/day is adequately protective for non-professional residential use of chlorpyrifos chemical products, as set out in the *Reconsideration of chlorpyrifos: Residential exposure assessment and risk characterisation report*.
  - V. The APVMA is satisfied that applying a margin of exposure of 100 to a point of departure of 0.1 mg/kg bw/day is adequately protective for non-professionals and children who re-enter areas that have been treated with chlorpyrifos chemical products, as set out in the *Reconsideration of chlorpyrifos: Residential exposure assessment and risk characterisation report*.
  - VI. The APVMA is satisfied that exposure to chlorpyrifos below the regulatory levels set out in the *Chlorpyrifos Review Technical Report*, and paragraph 6)a)IV of this statement of reasons, is not likely to have an unintended effect that is harmful to animals, plants or things or to the environment.
  - VII. The APVMA is satisfied that there is sufficient information to assess the impact of formulation excipients, and where relevant the active constituent bifenthrin, on the toxicity of chlorpyrifos chemical products and their residues in relation to relevant organisms and ecosystems, including human beings.
  - VIII. The APVMA is satisfied that the levels of toxicologically significant impurities in chlorpyrifos chemical products would not be harmful to relevant organisms and ecosystems, including human beings, based on the maximum limits established for the chlorpyrifos constituent, the fact that levels of the toxicologically significant impurity 0',0',0',0'-tetraethyl dithiopyrophosphate (S,S-TEPP) are not known to increase during storage, and that fact that no toxicologically significant degradation products are expected to form during storage.

- IX. The APVMA is therefore satisfied that the toxicity of chlorpyrifos chemical products and their residues, including metabolites and degradation products, are sufficiently defined to allow assessment of the risks to relevant organisms and ecosystems, including human beings, and the adequacy of the instructions for use for chlorpyrifos chemical products.
- b) Section 5A(3)(a)(ii) of the Agvet Code – the relevant poison classification of the product under the law in force in this jurisdiction.
- I. Chlorpyrifos is listed in Schedule 5 of the Standard for the Uniform Scheduling of Medicines and Poisons in aqueous preparations containing 20% or less of microencapsulated chlorpyrifos, in controlled release granular preparations containing 10% or less of chlorpyrifos and in other preparations containing 5% or less of chlorpyrifos, except in prepared potting or soil mixes containing 100 g or less of chlorpyrifos per cubic metre.
  - II. Chlorpyrifos is listed in Schedule 6 of the Standard for the Uniform Scheduling of Medicines and Poisons, except when included in Schedule 5 or in prepared potting or soil mixes containing 100 g or less of chlorpyrifos per cubic metre.
  - III. The APVMA is satisfied that the current chlorpyrifos poison classifications remain appropriate.
- c) Section 5A(3)(a)(iii) of the Agvet Code – how the product is formulated.
- I. The APVMA has considered the existing registration records in having regard to how the chemical products containing chlorpyrifos are formulated. Chemical products containing chlorpyrifos are formulated as follows:
    - 10 g/kg chlorpyrifos as a slow-release generator (banana bag)
    - 50 g/kg chlorpyrifos as a granular formulation
    - 100 g/kg chlorpyrifos as a granular formulation
    - 100 g/kg chlorpyrifos and 300 g/kg diazinon as an impregnated ear tag
    - 400 g/L chlorpyrifos and 20 g/L bifenthrin as an emulsifiable concentrate
    - 450 g/L chlorpyrifos as an emulsifiable concentrate
    - 500 g/L chlorpyrifos as an emulsifiable concentrate
    - 500 g/kg chlorpyrifos as a wettable powder
    - 600 g/L chlorpyrifos and 30 g/L bifenthrin as an emulsifiable concentrate
    - 700 g/L chlorpyrifos as an emulsifiable concentrate
    - 750 g/kg chlorpyrifos as a water dispersible granule
  - II. The proposed variation to the minimum purity requirements for chlorpyrifos active constituents may result in minor formulation updates required for chemical products that use source of chlorpyrifos active constituent with a purity less than 970 g/kg (but greater than or equal to 940 g/kg), as detailed in the *Chlorpyrifos Review Technical Report*.



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- III. The APVMA is satisfied that how the product is formulated will remain appropriate when a source of active constituent with a purity greater than or equal to 970 g/kg chlorpyrifos was listed in the product formulation details in existing registration records.
- IV. The APVMA is **not satisfied** that how the product is formulated will remain appropriate when a source of active constituent with a purity of less than 970 g/kg chlorpyrifos is listed in the product formulation.
- d) Section 5A(3)(a)(iv) of the Agvet Code – the composition and form of the constituents of the product.
- I. The APVMA has considered the existing registration records in having regard to the composition and form of the constituent of the chemical products containing chlorpyrifos, including the Declaration of Composition for the source of active constituent and the manufacturer's specification of other constituents.
- II. The APVMA has proposed to increase the minimum purity requirements for chlorpyrifos active constituents that can be used in chlorpyrifos chemical products from minimum 940 g/kg to minimum 970 g/kg, as detailed in the *Chlorpyrifos Review Technical Report*.
- III. The APVMA is satisfied that the composition and form of the constituent chlorpyrifos will remain appropriate when a source of active constituent with a purity greater than or equal to 970 g/kg chlorpyrifos was listed in the product formulation details in existing registration records.
- IV. The APVMA is **not satisfied** that the composition and form of the constituent chlorpyrifos will remain appropriate when a source of active constituent with a purity of less than 970 g/kg chlorpyrifos was listed in the product formulation details in existing registration records.
- V. The APVMA is satisfied that the composition and form of the formulation excipients, and where relevant the active constituent bifenthrin, in chlorpyrifos chemical products remain appropriate.
- VI. Based on previous assessments of the chemical product Y-TEX Warrior Insecticidal Cattle Ear Tags (Registration Number 51524), the APVMA currently remains satisfied of the composition and form of the formulation excipients in this product including diazinon but notes that diazinon is subject to an ongoing reconsideration.
- e) Section 5A(3)(a)(v) of the Agvet Code – any conditions to which its registration is, or would be, subject.
- I. In accordance with section 23(1)(a) of the Agvet Code, the agricultural product registrations are currently subject to the conditions prescribed in items 1, 2, 5, 6 and 7 of the table in regulation 17C(2) of the Agvet Regulations.  
Note: Items 3 and 4 of this do not apply to agricultural product registrations as these are prescribed under regulation 59(1) for the purposes of section 120A of the Agvet Code (see regulation 17C(3)).
- II. In accordance with section 23(1)(a) of the Agvet Code, the veterinary product registration is currently subject to the conditions prescribed in items 1, 2, 3, 4, 5, 6 and 7 of the table in regulation 17C(2) of the Agvet Regulations.
- III. In accordance with section 23(1)(a) of the Agvet Code, products are also subject to the conditions of registration prescribed in section 6 of the Agricultural and Veterinary Chemicals Code (Conditions of Approval or Registration) Order 2021. Section 6 of this Order prescribes the following conditions:

- The chemical product must not be supplied if the manufacture of the chemical product contravenes, or fails to comply with, any manufacturing law of the country, or part of the country, in which it is manufactured.
  - The holder of the registration must, on written request by the APVMA and within 28 days after the request is given, provide the APVMA with written evidence that the manufacture of the chemical product does not contravene, or fail to comply with, any manufacturing law of the country, or part of the country, in which it is manufactured.
- IV. The APVMA is satisfied that the conditions prescribed by the Agvet Regulations, detailed above, remain appropriate.
- V. Agricultural product registrations are also subject to the additional conditions imposed by the APVMA under section 23(1)(b) of the Agvet Code referred to as the 'Agricultural Products Active Constituent Quality Assurance Requirements' as follows:
- *"Agricultural Products must meet the Agricultural Products Active Constituent Quality Assurance Requirements*
    - *Manufacture of active constituent – the registrant must not supply the chemical product, or cause it to be supplied, unless the active constituent contained in the chemical product:*
      - *complies with the APVMA Standard for that active constituent; and*
      - *was manufactured at a site of manufacture listed in the Record of approved active constituents.*
    - *Analysis results – the registrant must not supply the chemical product or cause it to be supplied unless the registrant has in its possession prior to the supply of each batch of the chemical product, batch analysis results that show:*
      - *the active constituent contained in the chemical product complied with the APVMA Standard for that active constituent;*
      - *if there is an APVMA Standard for a constituent in the chemical product that is not an active constituent, the constituent complied with the APVMA Standard for that constituent; and*
      - *the batch number of the active constituent contained in the chemical product.*
    - *Records – the registrant must, at or prior to the supply of a batch of the chemical product by the registrant or by another person on behalf of the registrant, make or have in its possession, a record that contains the following information:*
      - *The name of the chemical product.*
      - *The APVMA product number of the chemical product.*
      - *If the chemical product was imported into Australia by another person on behalf of, or pursuant to an arrangement with the registrant, the name and address of that person.*
      - *If the chemical product was manufactured in Australia by another person on behalf of, or pursuant to an arrangement with the registrant, the name and address of that person.*

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- *The date of importation into, or manufacture in, Australia as the case may be.*
  - *The batch number of the chemical product from which the supply was made.*
  - *The quantity of the chemical product that constitutes the batch*
  - *The batch number, and name and address of the manufacturer of the active constituent contained in the chemical product*
  - *The registrant must produce, or cause to be produced, to the APVMA any batch analysis results or record within 10 working days of the request having been made by the APVMA, or other such period as determined by the APVMA.*
  - *The registrant must keep, or cause to be kept, any batch analysis results or record for 2 years after any batch analysis results or record is made.*
  - *Possession of batch analysis results and records – for the purposes of these conditions, batch analysis results or records are in the possession of the registrant if batch analysis results or records are:*
    - *in the possession of the registrant; or*
    - *in the possession of another person pursuant to an arrangement with the registrant.*
  - *Compliance with the Standard – for the purposes of these conditions, a constituent complies with the APVMA Standard if the constituent, when measured using a validated analytical method does not contain:*
    - *less than the minimum purity and/or content of the constituent as set out in the APVMA Standard for the Constituent*
    - *more than the maximum level of any impurity as set out in the APVMA Standard.*
  - *Definitions and Interpretation – in these conditions the following words have the following meanings:*
    - *'APVMA Standard' means the standard determined by the APVMA to which a constituent contained in chemical products must comply and which is published on the APVMA website.*
    - *'Batch' means a defined quantity of material produced in a single series of operations.*
    - *'Batch number' means that a distinctive combination of numbers and/or letters that specifically identifies a batch and from which the production history can be determined.*
    - *'Batch analysis results' means the results of analysis from each batch of the constituent that include:*
      1. *the name of the manufacturer and the manufacturing site address*
      2. *the date of the analysis*
      3. *the batch number and date of manufacture of the batch*

4. *the analysis result(s) for the constituent purity and/or content and/or isomer ratio and/or the specified impurities as per the APVMA Standard for the constituent*
  5. *full details and validation data for the analytical method(s) used for the determination of the constituent purity (linearity and precision) and/or the content and/or the isomer ratio and/or the specified impurities (linearity, precision, accuracy and limit of quantitation if relevant).*
  6. *If analytical methods and validation data have been previously provided to the APVMA, a reference to that submission will suffice.*
- *'Record' means a document in written or electronic form that contains the particulars set out in paragraph (3) and which is readily accessible for the purposes of Part 9 of the Agvet Code (Enforcement).*
- *'Supply' has the same meaning as given to it in section 3 of the Agvet Code and includes the doing of those things through, or pursuant to an arrangement with, another person."*
- VI. The APVMA is **not satisfied** that the current condition referred to as 'Agricultural Products Quality Assurance Requirements', to which each agricultural product registration is subject, remains appropriate, as the condition references the "APVMA Standard" available on the APVMA Website. The "APVMA Standard" has been replaced by the legislative instrument Agricultural Active Constituents Standards 2022.
- f) Section 5A(3)(a)(vi) of the Agvet Code – any relevant particulars that are, or would be, entered in the Register for the product:
- I. The particulars on the record for each registered chemical product containing chlorpyrifos have been reviewed including: distinguishing number, any instructions for the use, the distinguishing name, the constituents, the concentration of each constituent, the composition and purity of each active constituent (if possible), the formulation type, the net contents, the holder of the registration, the name of each manufacturer, the address of each site at which the chemical product is manufactured, the nominated agent (if relevant) and the date of entry of these particulars.
  - II. The APVMA is **not satisfied** that the instructions for use of chlorpyrifos chemical products would not pose an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues for the following reasons:
    - The instructions for the use of chemical products containing chlorpyrifos may result in exposure of occupational handlers at levels that exceed the margin considered adequately protective, as set out in the *Chlorpyrifos Review Technical Report*.
    - The instruction for the use of chlorpyrifos chemical products containing chlorpyrifos may result in exposure of non-professionals and children at levels that exceed the margin considered adequately protective, as detailed in *Reconsideration of chlorpyrifos: Residential exposure assessment and risk characterisation report*, unless they are used in accordance with the following instructions:
      - *"THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS."*
      - *"DO NOT use in or around publicly accessible residential, public or commercial areas."*
      - *"DO NOT use in areas accessible to children."*

- III. The APVMA is **not satisfied** that the instructions for use of chlorpyrifos chemical products would not be likely to have an effect that is harmful to human being for the following reasons:
- The instructions for use of chlorpyrifos chemical products in the following situations may result in chlorpyrifos residues levels that exceed the ARfD, using the National Estimated Dietary Intake calculation, and pose an acute dietary exposure concern:
    - use on pome fruit (apples and pears) at an application rate of 50 g ac/100 L.
    - use on chard (silver beet) for control of vegetable weevil at 400 g ac/ha.
    - use on cucumbers at an application rate that exceed 750 g ac/ha.
    - use on kiwifruit with edible peel.
  - There is insufficient information to assess the level of chlorpyrifos residues that are expected from the use of chemical products containing chlorpyrifos in accordance with instructions in the following situations:
    - post-planting, foliar use on brassica vegetables.
    - post-planting, foliar use on root and tuber vegetables other than potato.
    - use on cucurbits other than cucumber.
    - foliar use on peaches.
    - pre-emergent application on oilseeds (except cotton and canola) at a maximum application rate of 110 g ac/ha.
    - use on commercial turf.
  - The instructions for use, including the withholding periods, for chlorpyrifos chemical products may result in unacceptable levels of finite residues in food crops and crops that may be fed to animals, as set out in the *Chlorpyrifos Review Technical Report* and the *Chlorpyrifos preliminary review findings report on additional residues data*.
- IV. The APVMA is satisfied that use of chlorpyrifos chemical products in accordance with instructions would not have an unintended effect that is harmful to target crops and animals based on the history of use of chlorpyrifos chemical products and the fact that no in-crop, off target crop or livestock adverse experience reports have been received by the Adverse Experience Reporting Program of the APVMA, which were considered likely to be caused by product use according to label directions, as set out in the *Chlorpyrifos Review Technical Report*.
- V. The APVMA is **not satisfied** that the use of chlorpyrifos chemical products in accordance with instructions would not be likely to have an unintended effect that is harmful to non-target species, based on the findings in the *Chlorpyrifos Review Technical Report* that non-target species may be exposed to chlorpyrifos levels that exceed the regulatory acceptable levels.
- VI. The APVMA is satisfied that, following variation to the instructions for use of chlorpyrifos chemical products as proposed in paragraphs 31), 42) and 53), below, no additional instructions for use are required to ensure that spray drift exposure for natural aquatic areas, pollinators, vegetation, bystander and livestock

areas does not exceed the regulatory acceptable levels, as set out in the *Chlorpyrifos Review Technical Report*.

- VII. The APVMA is **not satisfied** that the composition and purity of the chlorpyrifos active constituent entered into the Register for each chlorpyrifos chemical product remains appropriate, noting the proposal to increase in the chlorpyrifos minimum purity requirements from 940 g/kg minimum to 970 g/kg minimum, as detailed in the *Chlorpyrifos Review Technical Report*.
- VIII. The APVMA is **not satisfied** that the distinguishing name for all chlorpyrifos chemical products remain appropriate, noting the proposed variations to the instructions for use detailed in paragraphs 31), 42) and 53) of this statement of reasons and in the *Chlorpyrifos Review Technical Report* would result in the name being misleading.
- IX. The APVMA is satisfied that all other relevant particulars that are entered in the Register for chlorpyrifos chemical products remain appropriate.
- g) Section 5A(3)(a)(via) of the Agvet Code – whether the product conforms, or would conform, to any standard made for the product under section 6E to the extent that the standard relates to matters covered by subsection (1).
- I. There are no standards made under section 6E which are relevant to the safety of chemical products containing chlorpyrifos.
- h) Section 5A(3)(a)(vii) of the Agvet Code – any matters prescribed by the regulations.
- I. Regulation 8AB(1)(a) of the Agvet Regulations prescribes the method of analysis (if any) of the chemical composition and form of the constituents of the chemical product.
- The APVMA has considered the existing registration records in having regard to the method of analysis of the chemical composition and form of the constituents of chlorpyrifos chemical products. The APVMA remains satisfied of the method of analysis.
- II. Regulations 8AB(1)(b) and (c) of the Agvet Regulations prescribe, respectively, that for a product manufactured in Australia—whether each step in the manufacture of the product complies, or will comply, with the manufacturing principles and the Australian GMP Code, and for a product manufactured outside Australia—whether each step in the manufacture of the product complies, or will comply, with a standard that the APVMA has determined is comparable to the manufacturing principles and the Australian GMP Code.
- The APVMA is satisfied that the veterinary chemical product containing chlorpyrifos complies with the requirements of regulations 8AB(1)(b) and (c) of the Agvet Regulations.
  - In accordance with regulation 8AB(2), regulations 8AB(1)(b) and (c) of the Agvet Regulations does not apply to agricultural chemical products as prescribed under regulation 59(1) for the purposes of section 120A of the Agvet Code.
- III. Regulations 8AB(1)(d) and (e) of the Agvet Regulations do not apply based on the use patterns of chlorpyrifos products.
- IV. Regulations 8AB(1)(f) of the Agvet Regulations does not apply, as the APVMA is **not satisfied** that the uses of agricultural chemical products containing chlorpyrifos on seeds could be varied to meet the safety

criteria due to the risks to occupational handlers and non-target species, as set out the *Chlorpyrifos Review Technical Report* and in paragraphs 31)c)I and 31)c)III of this statement of reasons.

- 28) Under section 5A(3)(b) of the Agvet Code, the APVMA may have regard to one or more of the following matters in determining whether a chemical product meets the safety criteria:
- a) Section 5A(3)(b)(i) of the Agvet Code – the acceptable daily intake of each constituent contained in the product;
    - I. The APVMA is satisfied the acceptable daily intake of 0.001 mg/kg bw/day remains appropriate.
  - b) Section 5A(3)(b)(ii) of the Agvet Code – any dietary exposure assessment prepared under subsection 82(4) of the *Food Standards Australia New Zealand Act 1991* as a result of any proposed variation notified under section 82(3) of that Act in relation to the product, and any comments on the assessment given to the APVMA under section 82(4) of that Act.
    - I. There has not been a dietary exposure assessment prepared under subsection 82(4) of the *Food Standards Australia New Zealand Act 1991*.
  - c) Section 5A(3)(b)(iii) of the Agvet Code – whether any trials or laboratory experiments have been carried out to determine the residues of the product and, if so, the results of those trials or experiments and whether those results show that the residues of the product will not be greater than limits that the APVMA has approved or approves.
    - I. The APVMA is **not satisfied** that sufficient trials or laboratory experiments have been carried out to determine the residues of the chlorpyrifos chemical products expected from use in the following situations, as detailed in the *Chlorpyrifos Review Technical Report* and *Chlorpyrifos preliminary review findings report on additional residues data*:
      - post-planting, foliar use on brassica vegetables.
      - post-planting, foliar use on root and tuber vegetables other than potato.
      - use on cucurbits other than cucumber.
      - foliar use on peaches.
      - pre-emergent application on oilseeds (except cotton and canola) at a maximum application rate of 110 g ac/ha.
      - use on commercial turf.
    - II. The APVMA is satisfied that sufficient trials or laboratory experiments have been carried out to determine an appropriate maximum residues limit (MRL) for the use of chlorpyrifos on remaining approved crops, and that these results show the residues of chlorpyrifos chemical products will not be greater than the maximum limits set, as detailed in the *Chlorpyrifos Review Technical Report* and *Chlorpyrifos preliminary review findings report on additional residues data*.
  - d) Section 5A(3)(b)(iv) of the Agvet Code – the stability of the product.
    - I. There were no concerns identified in relation to the stability of chlorpyrifos chemical products.
  - e) Section 5A(3)(b)(v) of the Agvet Code – the specifications for containers for the product.

- I. There were no concerns identified in relation to the specifications for containers for chlorpyrifos chemical products.
- f) Section 5A(3)(b)(vi) of the Agvet Code – such other matters as it thinks relevant.
- I. The APVMA has conducted a dietary exposure assessment for chlorpyrifos chemical products, following variation to the instructions for use of chlorpyrifos chemical products as proposed in paragraphs 31), 42) and 53), as set out in the *Chlorpyrifos Review Technical Report*.
  - II. The APVMA is satisfied that, following variation to the instructions for use of chlorpyrifos chemical products as proposed in paragraphs 31), 42) and 53), acute and chronic dietary exposure to chlorpyrifos calculated using the National Estimated Dietary Intake calculation will not exceed the ADI and ARfD for chlorpyrifos and is not likely to have an effect that is harmful to human being.

29) The APVMA is therefore **not satisfied** that the use of chemical products containing chlorpyrifos, in accordance with instructions approved by the APVMA for the products:

- a) is not, or would not be, an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues; and
- b) is not, or would not be, likely to have an effect that is harmful to human beings; and
- c) is not, or would not be, likely to have an unintended effect that is harmful to animals, plants or things or to the environment

### **Consideration of whether registered chemical products can be varied to meet the safety criteria**

30) Section 34A(1) of the Agvet Code provides that if the APVMA is not satisfied under section 34(1) but is satisfied that the relevant particulars or conditions of the registration can be varied in such a way as to allow the registration to be affirmed, the APVMA must vary the relevant particulars or conditions.

31) The APVMA has considered whether registered chemical products can be varied in such a way as to meet the safety criteria set out in Section 5A(1) as follows:

- a) To address concerns identified in paragraphs 27)c) and 27)d), when considering criteria in sections 5A(3)(a)(iii) and 5A(3)(a)(iv) of the Agvet Code:
  - I. It is noted that the APVMA is proposing to vary the conditions of the active constituent approvals in Table 11 in Attachment A of this notice to allow affirmation. As such, these sources of active constituent would be retained in the APVMA's Record of approved active constituents and could feasibly be used in chlorpyrifos chemical product formulations in line with the condition of registration referred to as the 'Agricultural Products must meet the Agricultural Products Active Constituent Quality Assurance Requirements', set out in paragraph 31)b) below.
  - II. The APVMA therefore proposes to impose the following condition of registration under section 23(1)(b) of the Agvet Code when a source of active constituent with a purity of less than 970 g/kg chlorpyrifos was listed in the product formulation details in existing registration records.
    - *"Condition of registration*



- *Within 1 year of the publication of the section 34AC notice of the chlorpyrifos final regulatory decision, you are required to vary your product registration details to:*
    - *Update the formulation details such that the source of chlorpyrifos active constituent within the formulation has a minimum purity of 970 g/kg (or 97.0%). The formulation details provided should include the chlorpyrifos active constituent content that gives the product label claim based on the amended active constituent purity and any corresponding changes to the solvent (or filler) content, where applicable.*
    - *Update the conditions of registration. If a condition of registration imposed under section 23(1)(b) or 23(2) of the Agvet Code is no longer relevant, then the conditions of registration can be varied so as to remove these conditions.*
  - *Confirmation of the variation must be submitted to [chemicalreview@apvma.gov.au](mailto:chemicalreview@apvma.gov.au) by [DATE – i.e. 1 year from the publication of the section 34AC notice of the chlorpyrifos final regulatory decision].”*
- III. The APVMA also proposes that, under section 23(2) of the Agvet Code, when a source of active constituent with a purity of less than 970 g/kg chlorpyrifos was listed in the product formulation details in existing registration records, chlorpyrifos chemical products may only be registered on the condition that the registration is taken to remain in force for 1 year from the publication of the section 34AC notice of the chlorpyrifos final regulatory decision.
- b) To address concerns identified in paragraph 27)e) when considering the criteria in section 5A(3)(a)(v) of the Agvet Code, the APVMA proposes to vary the conditions referred to as the ‘Agricultural Products Active Constituent Quality Assurance Requirements’ so as to substitute the reference to the “APVMA standard” with the “Agricultural and Veterinary Chemicals Code (Agricultural Active Constituents) Standards 2022” as follows:
- *“Agricultural Products must meet the Agricultural Products Active Constituent Quality Assurance Requirements*
    - *Manufacture of active constituent – the registrant must not supply the chemical product, or cause it to be supplied, unless the active constituent contained in the chemical product:*
      - *complies with the Agricultural and Veterinary Chemicals Code (Agricultural Active Constituents) Standards 2022 (Active Constituent Standard 2022) for that active constituent; and*
      - *was manufactured at a site of manufacture listed in the Record of approved active constituents.*
    - *Analysis results – the registrant must not supply the chemical product or cause it to be supplied unless the registrant has in its possession prior to the supply of each batch of the chemical product, batch analysis results that show:*
      - *the active constituent contained in the chemical product complied with the Active Constituent Standard 2022 for that active constituent;*
      - *if there is a standard for a constituent in the chemical product that is listed in the Active Constituent Standard 2022, that the constituent complies with the Active Constituent Standard 2022 for that constituent; and*

- *the batch number of the active constituent contained in the chemical product.*
- *Records – the registrant must, at or prior to the supply of a batch of the chemical product by the registrant or by another person on behalf of the registrant, make or have in its possession, a record that contains the following information:*
  - *The name of the chemical product.*
  - *The APVMA product number of the chemical product.*
  - *If the chemical product was imported into Australia by another person on behalf of, or pursuant to an arrangement with the registrant, the name and address of that person.*
  - *If the chemical product was manufactured in Australia by another person on behalf of, or pursuant to an arrangement with the registrant, the name and address of that person.*
  - *The date of importation into, or manufacture in, Australia as the case may be.*
  - *The batch number of the chemical product from which the supply was made.*
  - *The quantity of the chemical product that constitutes the batch*
  - *The batch number, and name and address of the manufacturer of the active constituent contained in the chemical product*
- *The registrant must produce, or cause to be produced, to the APVMA any batch analysis results or record within 10 working days of the request having been made by the APVMA, or other such period as determined by the APVMA.*
- *The registrant must keep, or cause to be kept, any batch analysis results or record for 2 years after any batch analysis results or record is made.*
- *Possession of batch analysis results and records – for the purposes of these conditions, batch analysis results or records are in the possession of the registrant if batch analysis results or records are:*
  - *in the possession of the registrant; or*
  - *in the possession of another person pursuant to an arrangement with the registrant.*
- *Compliance with the Standard – for the purposes of these conditions, a constituent complies with the Active Constituent Standard 2022 if the constituent, when measured using a validated analytical method does not contain:*
  - *less than the minimum purity and/or content of the constituent as set out in the Active Constituent Standard 2022 for the Constituent; and*
  - *more than the maximum level of any impurity as set out in the Active Constituent Standard 2022.*
- *Definitions and Interpretation – in these conditions the following words have the following meanings:*

- 
- *'Batch'* means a defined quantity of material produced in a single series of operations.
  - *'Batch number'* means that a distinctive combination of numbers and/or letters that specifically identifies a batch and from which the production history can be determined.
  - *'Batch analysis results'* means the results of analysis from each batch of the constituent that include:
    1. the name of the manufacturer and the manufacturing site address
    2. the date of the analysis
    3. the batch number and date of manufacture of the batch
    4. the analysis result(s) for the constituent purity and/or content and/or isomer ratio and/or the specified impurities as per the Active Constituent Standard 2022 for the constituent
    5. full details and validation data for the analytical method(s) used for the determination of the constituent purity (linearity and precision) and/or the content and/or the isomer ratio and/or the specified impurities (linearity, precision, accuracy and limit of quantitation if relevant).
    6. If analytical methods and validation data have been previously provided to the APVMA, a reference to that submission will suffice.
  - *'Record'* means a document in written or electronic form that contains the particulars set out in paragraph (3) and which is readily accessible for the purposes of Part 9 of the Agvet Code (Enforcement).
  - *'Supply'* has the same meaning as given to it in section 3 of the Agvet Code and includes the doing of those things through, or pursuant to an arrangement with, another person."
- c) To address concerns identified in paragraph 27f) when considering the criteria in section 5A(3)(a)(vi) of the Agvet Code in relation to any relevant particulars that are, or would be, entered in the Register for the product:
- I. The APVMA proposes to vary the instructions for use of chlorpyrifos chemical products to remove the following uses, for which the risks to occupational handler exposure could not be adequately mitigated, as detailed in the *Chlorpyrifos Review Technical Report*.
    - aerial application of chlorpyrifos to all crops.
    - airblast application to fruits and vegetables at rates that exceed 250 g ac/ha.
    - groundboom application to cotton crops.
    - broadcast groundboom application to all field crops.
    - groundboom application to vegetables, field crops and duboisia at application rates that exceed 400 g ac/ha.
    - mister application to cereals, pastures and forage crops.

- mechanically pressurised handgun application to avocado crops at application rates that exceed 500 g ac/ha and for the control of Queensland fruit fly in various crops.
  - backpack or mechanically pressurised handgun application to agricultural, commercial and industrial areas, polluted water impounds and vegetation.
  - manually pressurised handwand application to indoor agricultural, commercial and industrial areas.
  - soil injection or mechanically pressurized handgun application for termiticide chemical soil barriers around and under buildings (excluding use of reticulated or AS Series 3660 systems) and around poles.
  - application to bananas (except when product is formulated as a slow-release generator).
  - application to turf at an application rate equal to or greater than 1000 g ac/ha.
  - application of granular formulated products.
  - use as a seed dressing and insect bait.
- II. The APVMA proposes to vary the instructions for use of chlorpyrifos chemical products to remove the following uses, for which the risks to human beings could not be adequately assessed and/or mitigated, as detailed in the *Chlorpyrifos Review Technical Report*.
- use on cucurbits other than cucumber.
  - foliar use on peaches
  - pre-emergent application on oilseeds (except cotton and canola) at a maximum application rate of 110 g ac/ha.
  - use on pome fruit (apples and pears) at an application rate of 50 g ac/100 L.
  - use on chard (silver beet) for control of vegetable weevil at 400 g ac/ha.
  - use on cucumbers at an application rate that exceed 750 g ac/ha.
  - use on kiwifruit with edible peel.
- III. The APVMA proposed to vary the instructions for use of chlorpyrifos chemical products to remove the following uses, for which the risks to non-target species could not be adequately mitigated, as detailed in the *Chlorpyrifos Review Technical Report*.
- control of mosquitos in vegetation.
  - control of mosquito larvae in permanent water bodies.
  - use on oilseeds at an application rate greater than 110 g ac/ha (noting this use on cotton and canola was not assessed due to already identified safety and trade risks), pasture, lucerne, sugarcane, forage crops, Duboisia, grapevines, avocado, apple, pear, stone fruit, Macrocarpa hedges adjacent to orchards, vegetables (band or broadcast applications), ginger and commercial turf (excluding spot spray application to funnel ant mounds in commercial turf).

- use as a seed dressing and insect bait.
  - use on grapevine rootlings.
  - treatment of the external perimeter around buildings for termite protection (horizontal or vertical barriers, including use of reticulation systems) and outdoor termite nests or colonies (including in trees).
- IV. The APVMA is **not satisfied** that the instructions for use of the registered chemical products containing chlorpyrifos listed in Table 12 in Attachment A of this notice can be varied to mitigate risks associated with use of the products, as the APVMA has proposed to remove all current uses approved for these chemical products due to safety and trade risks that could not be adequately mitigated, as set out in paragraphs 31)c)I, 31)c)II, 31)c)III and 42)a)I of this statement of reasons.
- V. The APVMA is satisfied that instructions for use of the chlorpyrifos chemical products containing chlorpyrifos listed in Table 11 in Attachment A of this notice can be varied to remove the uses listed in paragraphs 31)c)I, 31)c)II and 31)c)III above, and further varied in the following additional ways, in order to mitigate the safety risks associated with use:
- The APVMA proposes to vary the instructions for use of chlorpyrifos chemical products, where relevant, to reduce occupational handler exposure to an acceptable level, as detailed in the *Chlorpyrifos Review Technical Report*, as follows:
    - include the restraints “*DO NOT apply using equipment carried on the back of the user. DO NOT apply using mechanically pressurized hand wand sprayer.*”, excluding where the use of this application equipment would not be relevant such as products formulated as banana bags and ear tags.
    - vary the first aid instructions, first aid warning and safety directions to the respective instructions set out in the *Chlorpyrifos Review Technical Report* and paragraph 66)a)V of this statement of reasons.
  - The APVMA proposes to vary the instructions for use of chlorpyrifos chemical products, where required, to mitigate risks to non-professional users and children, as detailed in the *Reconsideration of chlorpyrifos: Residential exposure assessment and risk characterisation report*:
    - include the statement of claims “*THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.*”
    - include the restraints “*DO NOT use in or around publicly accessible residential, public or commercial areas. DO NOT use in areas accessible to children.*”
  - The APVMA proposes to vary the instructions for use of chlorpyrifos chemical products, where relevant, to mitigate risks to human beings who consume animal commodities, as detailed in the *Chlorpyrifos preliminary review findings report on additional residues data*, as follows:
    - for chlorpyrifos chemical products approved for use on commercial turf, include the withholding period ‘*DO NOT graze treated turf or lawn; or feed turf or lawn clippings from any treated area to poultry or livestock.*’

- The APVMA proposes to vary the instructions for use of chlorpyrifos chemical products, where relevant, to mitigate risks to non-target organisms, as detailed in the *Chlorpyrifos Review Technical Report*, as follows:
    - include the environmental protections statement *“Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.”*
    - for chlorpyrifos chemical products approved for use in and around agricultural, industrial and commercial areas and in potted ornamentals, include the environmental protections statement *“DO NOT apply if heavy rains or storms are forecast within 3 days.”*
    - for chlorpyrifos chemical products approved for use in and around agricultural, industrial and commercial areas and commercial turf, include the environmental protections statement *“Highly toxic to bees. However, the use of this product as directed is not expected to have adverse effects on bees.”*
    - for chlorpyrifos chemical products approved for use in container plants (surface spray application), include the environmental protections statement *“Highly toxic to bees. To protect bees and pollinating insects when controlling Argentine ants in container plants, DO NOT apply when flowering plants or weeds are present. DO NOT use where bees are actively foraging. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray.”*
    - for chlorpyrifos chemical products approved for the treatment of termite nests, remove the instructions related to the treatment of outdoor termite nests and colonies and include the critical comment *“DO NOT treat outdoor nests, including nests located in trees.”*
  - VI. The APVMA proposes to vary the composition and purity of the chlorpyrifos active constituent entered into the Register for each chlorpyrifos chemical product as follows:
    - *“Minimum Compositional Standard - Purity Level: 970 g/kg”*
  - VII. For chemical products whose current distinguishing name would be misleading if the variations proposed in paragraphs 31), 42) and 53) to mitigate safety and trade risks are implemented, the APVMA proposes to vary the distinguishing name entered into the register.
- d) To address concerns identified when considering the criteria in section 5A(3)(b)(iii) of the Agvet Code in relation to the residues that are expected from use of chlorpyrifos chemical products in food producing situations:
- I. The APVMA is satisfied that the instructions for the use of chlorpyrifos chemical products on commercial turf can be varied to include the restriction *‘DO NOT graze treated turf or lawn; or feed turf or lawn clippings from any treated area to poultry or livestock’*, as indicated in the *Chlorpyrifos preliminary review findings report on additional residues data*.
  - II. The APVMA is satisfied, following variation to the instructions for use of chlorpyrifos chemical products as proposed in paragraphs 31), 42) and 53), sufficient trials or laboratory experiments have been carried out to determine an appropriate maximum residues limit (MRL) for the use of chlorpyrifos chemical products in food producing situations, including ear tags for cattle and banana bags, and that these results show the residues of chlorpyrifos chemical products will not be greater than the maximum limits set, as detailed in the *Chlorpyrifos Review Technical Report*.

- 32) The APVMA is therefore satisfied that the relevant particulars and conditions of the registered chemical products in Table 11 in Attachment A of this notice can be varied in the ways set out in paragraph 31), so that the use of the chemical products containing chlorpyrifos, in accordance with the instructions approved by the APVMA for the products:
- a) is not, or would not be, an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues; and
  - b) is not, or would not be, likely to have an effect that is harmful to human beings; and
  - c) is not, or would not be, likely to have an unintended effect that is harmful to animals, plants or things or to the environment.
- 33) The APVMA is **not satisfied** that the relevant particulars or conditions of the registered chemical products in Table 12 in Attachment A of this notice can be varied so that the use of the chemical products containing chlorpyrifos, in accordance with the instructions approved by the APVMA for the products:
- a) is not, or would not be, an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues; and
  - b) is not, or would not be, likely to have an effect that is harmful to human beings; and
  - c) is not, or would not be, likely to have an unintended effect that is harmful to animals, plants or things or to the environment.

### Consideration of whether registered chemical products meet the efficacy criteria

- 34) Section 5B(1) of the Agvet Code provides that a chemical product meets the efficacy criteria if use of the product, in accordance with instructions approved, or to be approved, by the APVMA for the product or contained in an established standard, is, or would be, effective according to criteria determined by the APVMA by legislative instrument.
- a) The criteria for agricultural chemical products and veterinary chemical products are listed in Part 2 and Part 3 of the Agricultural and Veterinary Chemicals Code (Efficacy Criteria) Determination 2014, respectively, including:
    - I. criteria based on type of product, as set out in clauses 3 and 5 respectively; and
    - II. criteria based on demonstrated effectiveness, as set out in clauses 4 and 6 respectively.
- 35) Section 5B(2) of the Agvet Code provides that for the purposes of being satisfied as to whether a chemical product meets the efficacy criteria, the APVMA must have regard to the following:
- a) Section 5B(2)(a) - whether any trials or laboratory experiments have been carried out to determine the efficacy of the product and, if so, the results of those trials or experiments.
    - I. The APVMA has considered the assessments of previously submitted information for the registration and variation of chemical products containing chlorpyrifos. The APVMA is satisfied that this information continues to support the efficacy of these chemical products.
  - b) Section 5B(2)(b) - any conditions to which its registration is, or would be, subject;

- I. The APVMA has considered the conditions of registration which apply to chemical products containing chlorpyrifos. The APVMA is satisfied that no additional conditions of registration are required to satisfy the efficacy criteria.
  - c) Section 5B(2)(c) - any relevant particulars that are, or would be, entered in the Register for the product;
    - I. The APVMA has considered the relevant particulars that are entered in the Register for chemical products containing chlorpyrifos. The APVMA is satisfied that no changes to the relevant particulars entered in the Register are required to be satisfied of the efficacy these products.
    - II. The variations to the instructions for use proposed to satisfy the safety criteria (as set out in paragraph 31)) and trade criteria (as set out in paragraph 42)) are within existing use patterns. The APVMA is satisfied that these variations will not impact the efficacy of these products.
  - d) Section 5B(2)(ca) - whether the product conforms, or would conform, to any standard made for the product under section 6E to the extent that the standard relates to matters covered by subsection (1);
    - I. There are no standards made under section 6E which are relevant to the efficacy of chemical products containing chlorpyrifos.
  - e) Section 5B(2)(d) any matters prescribed by the regulations.
    - I. There are no regulations which are relevant to the efficacy of chemical products containing chlorpyrifos.
- 36) The APVMA is satisfied that the use of chemical products containing chlorpyrifos meets the efficacy criteria as set out in section 5B of the Agvet Code, based on the criteria for demonstrated effectiveness for agricultural and veterinary chemical products determined by the APVMA by legislative instrument.

### **Consideration of whether registered chemical products meet the trade criteria**

- 37) Section 5C(1) of the Agvet Code provides that a product meets the trade criteria if use of the product, in accordance with instructions approved, or to be approved, by the APVMA or contained in an established standard, does not, or would not, unduly prejudice trade or commerce between Australia and places outside Australia.
- 38) Section 5C(3) of the Agvet Code provides that for the purposes of the operation of this Code in relation to a particular chemical product, the APVMA is required to have regard to the matters set out in subsections (1) and (2) only to the extent prescribed by the regulations; or if there are no such regulations—to the extent that the APVMA thinks the matters are relevant.
- a) Regulation 8AD(2) of the Agvet Regulations provides that if it can be reasonably expected that a chemical product will be used in relation to a crop or animal, a product of which might be provided to a place outside Australia; or a crop that will be fed to animals a product of which might be provided to a place outside Australia then the APVMA must have full regard to the matters set out in section 5C(1) and (2) of the Agvet Code.
    - I. Chemical products containing chlorpyrifos are approved for use on crops that are considered a major export commodity, including cereal grains, oilseeds (canola and cotton), pulses (lupins, field peas, chickpeas, faba beans, navy beans and mung beans), citrus, grapes, pome fruit and stone fruit. It is therefore reasonably expected that a product of these crops might be provided to a place outside of Australia.



- II. Chemical products containing chlorpyrifos are approved for use on sugarcane. It is reasonably expected that a product of sugarcane might be provided to a place outside of Australia, as sugar is considered a major export commodity.
- III. Chemical products containing chlorpyrifos are approved for use on crops that can be used as stockfeed for mammalian and poultry animals. Mammalian and poultry animals and their products (including cattle, cattle dairy products, pigs, sheep, goats, poultry and eggs) are considered major export commodities. It is therefore reasonably expected that a product of these animals might be provided to a place outside of Australia.
- IV. Chemical products containing chlorpyrifos are approved for use on cattle in the form of an ear tag, where cattle and cattle dairy products are considered a major export commodity. It is therefore reasonably expected that a product of these animals might be provided to a place outside of Australia.

39) For the purposes of being satisfied that the chlorpyrifos chemical products meet the trade criteria as described in section 5C(1) of the Agvet Code, the APVMA has considered the criteria set out in section 5C(2) for the use patterns listed in paragraph 38) and has determined as follows:

- a) Section 5C(2)(a) - any conditions to which its registration is, or would be, subject.
  - I. The APVMA is satisfied that the conditions of registration currently applied to chemical products containing chlorpyrifos remain appropriate with regards to the risk to trade or commerce between Australia and places outside Australia.
- b) Section 5C(2)(b) - any relevant particulars that are, or would be, entered in the Register for the product.
  - I. The relevant particulars entered in the Register for each registered product containing chlorpyrifos have been reviewed, including the instructions for use for the chemical products.
  - II. The instructions for the use of chemical products containing chlorpyrifos on cereal grains, canola, cotton, pulses, citrus, grapes, pome fruit and stone fruit may result in finite residues of chlorpyrifos in products of these crops that exceed residue tolerance requirements for importing countries, with the exception of applications made prior to crop emergence or prior to the end of dormancy, as set out in the *Chlorpyrifos Review Technical Report*.
  - III. The instructions for the use of chemical products containing chlorpyrifos on sugarcane are not expected to result in finite residues in sugar.
  - IV. The instructions for the use of chemical products containing chlorpyrifos on crops that may be fed to animals may result in finite residues of chlorpyrifos in mammalian and poultry animal commodities that exceed residue tolerance requirements for importing countries, as set out in the *Chlorpyrifos Review Technical Report*.
  - V. The instructions for the use of chemical products containing chlorpyrifos on cattle in the form of an ear tag may result in finite residues of chlorpyrifos in cattle and cattle dairy products that exceed residue tolerance requirements for importing countries, as set out in the *Chlorpyrifos Review Technical Report*.
  - VI. The APVMA is **not satisfied** that the instructions for use entered in the Register for chemical products containing chlorpyrifos, approved for use on cereal grains, canola, cotton, pulses, citrus, grapes, pome fruit, stone fruit, cattle and crops that may be fed to animals, will not unduly prejudice trade or commerce between Australia and places outside Australia.

- c) Section 5C(2)(ba), whether the product conforms, or would conform, to any standard made for the product under section 6E to the extent that the standard relates to matters covered by subsection (1);
- I. There are no standards made under section 6E that are relevant to the risk to trade or commerce between Australia and places outside Australia.
- d) Section 5C(2)(c), any matters prescribed by the regulations.
- I. The APVMA has had regard to Regulation 8AD, as outlined in paragraph 38) above, in considering the risk to trade or commerce between Australia and places outside Australia posed by the use of chemical products containing chlorpyrifos.

40) The APVMA is **not satisfied** that the use of chemical products containing chlorpyrifos, in accordance with instructions approved for major export commodities, does not, or would not, unduly prejudice trade or commerce between Australia and places outside Australia.

### Consideration of whether registered chemical products can be varied to meet the trade criteria

- 41) Section 34A(1) provides that if the APVMA is not satisfied under section 34(1) but is satisfied that the relevant particulars or conditions of the registration can be varied in such a way as to allow the registration to be affirmed, the APVMA must vary the relevant particulars or conditions.
- 42) The APVMA has considered whether the instructions for use for registered chlorpyrifos products can be varied in such a way as to meet the trade criteria set out in Section 5C(1) as follows:
- a) To address concerns identified in paragraph 39)b), when considering the criteria in section 5C(2)(b) of the Agvet Code, in relation to any relevant particulars that are, or would be, entered in the Register for the product:
- I. The APVMA proposes to vary the instructions for use of chemical products containing chlorpyrifos to remove the uses on cereal grains, canola, cotton, pulses, citrus, grapes, pome fruit and stone fruit, excluding applications made prior to crop emergence or the end of dormancy, for which the risk to trade or commerce between Australia and places outside Australia could not be adequately mitigated.
- II. The instructions for use of chemical products containing chlorpyrifos on crops that may be fed to animals can be varied to include a 56-day export slaughter interval to mitigate the risk of finite residues in mammalian and poultry animal commodities. It is noted that the APVMA could not be satisfied that the use of chemical products containing chlorpyrifos on crops that may be fed to animals could be varied to meet the safety criteria. The APVMA therefore proposes to remove the uses of chemical products containing chlorpyrifos on crops that may be fed to animals, as detailed in paragraph 31) above.
- III. The APVMA proposes to vary the instruction for use on cattle of chemical products containing chlorpyrifos in the form of an ear tag to include the following export slaughter interval to mitigate the risk of finite residues in cattle and cattle dairy products, as follows:
- *“EXPORT SLAUGHTER INTERVAL (ESI): DO NOT administer this ear tag product less than 28 days before slaughter for export. Before using this product, confirm the current ESI from Landmark Operations Limited on 1800 448 892 or the APVMA website (apvma.gov.au/residues).”*
- 43) The APVMA is satisfied that the relevant particulars or conditions of chemical products containing chlorpyrifos can be varied in the ways set out in paragraph 42) above, so that the use of chemical products containing chlorpyrifos, in

accordance with instructions approved, does not, or would not, unduly prejudice trade or commerce between Australia and places outside Australia.

### Consideration of whether registered chemical products comply with any requirement prescribed by the regulations

- 44) Regulation 16 of the Agvet Regulations prescribes the particulars of a chemical product which must be recorded in the Register pursuant to section 20(1)(c) of the Agvet Code:
- a) The APVMA has had regard to the particulars recorded in the Register for each chemical product containing chlorpyrifos.
  - b) As outlined in paragraph 27)f) above, the APVMA is **not satisfied** that the composition and purity of the chlorpyrifos active constituent and distinguishing name recorded in the Register for each chlorpyrifos chemical product remains appropriate. The APVMA is satisfied that all other particulars prescribed by regulation 16 of the Agvet Regulations and recorded in the Register for chlorpyrifos chemical products remain appropriate.
  - c) The APVMA is satisfied that all other particulars prescribed by regulation 16 of the Agvet Regulations and recorded in the Register for chlorpyrifos chemical products remain appropriate.
- 45) Regulation 17C of the Agvet Regulations prescribes conditions to which the registration of a chemical product is subject.
- a) The APVMA is satisfied that the conditions prescribed by regulation 17C of the Agvet Regulations remain appropriate and that chlorpyrifos chemical products comply with these prescribed conditions.
- 46) Regulation 18 of the Agvet Regulations prescribes conditions of registration relating to the containers for chemical products.
- a) The APVMA is satisfied that the conditions prescribed by regulation 18 of the Agvet Regulations remain appropriate and that chemical products containing chlorpyrifos comply with these prescribed conditions.
- 47) Regulation 42 of the Agvet Regulations prescribes standards for chemical products to which chemical products must conform in accordance with section 87 of the Agvet Code.
- a) In accordance with Regulation 42(3), a standard for chlorpyrifos active constituents has been made under section 6E(1) of the Agvet Code in the Agricultural Active Constituents Standards 2022.
    - I. The APVMA is satisfied that the chlorpyrifos active constituents in Table 1 would conform to the revised chlorpyrifos standard proposed to be made in the Agricultural Active Constituents Standards 2022, as outlined in the *Chlorpyrifos Review Technical Report* and in paragraph 6)g) of this statement of reasons.
    - II. As such, if a source of chlorpyrifos active constituent used in Table 1 is used in a chemical product, in accordance with the condition of registration referred to as the ‘Agricultural Products must meet the Agricultural Products Active Constituent Quality Assurance Requirements’ set out in paragraph 31)b) above, the APVMA is satisfied that the chlorpyrifos active constituent contained in chemical product will conform with the standard.
  - b) There is no standard prescribed under Regulation 42(3) of the Agvet Regulations in respect to the concentration of an active constituent in chlorpyrifos chemical products. The APVMA is satisfied that chlorpyrifos chemical products will conform to the standard prescribed by Regulation 42(4) of the Agvet Regulations.

48) The APVMA is **not satisfied** that chlorpyrifos chemical products meet the requirements prescribed by the regulations.

### **Consideration of whether registered chemical products can be varied to comply with any requirement prescribed by the regulations**

49) Section 34A(1) provides that if the APVMA is not satisfied under section 34(1) but is satisfied that the relevant particulars or conditions of the registration can be varied in such a way as to allow the registration to be affirmed, the APVMA must vary the relevant particulars or conditions.

50) The APVMA has considered whether the particulars or conditions of registered chlorpyrifos products can be varied in such a way as to comply with any requirement prescribed by the regulations as follows:

- a) To address concerns identified in relation to the particulars prescribed by regulation 16 of the Agvet Regulations, and as outlined in paragraph 31)c)VI and 31)c)VII above, the APVMA proposes to:
  - I. vary the composition and purity of the chlorpyrifos active constituent recorded into the Register for each chlorpyrifos chemical product to *“Minimum Compositional Standard - Purity Level: 970 g/kg”*
  - II. for chemical products whose current distinguishing name would be misleading if the variations proposed in paragraphs in paragraphs 31), 42) and 53) are implemented, vary the distinguishing name entered into the register.

51) The APVMA is satisfied that the relevant particulars or conditions of chemical products containing chlorpyrifos can be varied in the ways set out in paragraph 50) above so that they meet any requirement prescribed by the regulations.

### **Conclusion of consideration of registered chemical products**

52) Section 34A(1) of the Agvet Code provides that if the APVMA is not satisfied under section 34(1) but is satisfied that the relevant particulars or conditions of the registration can be varied in such a way as to allow the registration to be affirmed, the APVMA must vary the relevant particulars or conditions.

53) The APVMA is satisfied that chlorpyrifos chemical products registration listed in Table 11 in Attachment A of this notice meet the efficacy criteria, and that the relevant particulars or conditions of these chemical product registrations can be varied to meet the safety criteria, trade criteria and any requirement prescribed by the regulations. Therefore, APVMA proposes to vary the relevant particulars and conditions as follows:

- a) For chlorpyrifos chemical products where a source of active constituent with a purity of less than 970 g/kg chlorpyrifos was listed in the product formulation details in existing registration records, vary the conditions of registration as set out in paragraph 31)a) above and as follows:
  - I. Under section 23(1)(b) of the Agvet Code, impose the following condition of registration:
    - *“Condition of registration*
      - *Within 1 year of the publication of the section 34AC notice of the chlorpyrifos final regulatory decision, you are required to vary your product registration details to:*

- *Update the formulation details such that the source of chlorpyrifos active constituent within the formulation has a minimum purity of 970 g/kg (or 97.0%). The formulation details provided should include the chlorpyrifos active constituent content that gives the product label claim based on the amended active constituent purity and any corresponding changes to the solvent (or filler) content, where applicable.*
- *Update the conditions of registration. If a condition of registration imposed under section 23(1)(b) or 23(2) of the Agvet Code is no longer relevant, then the conditions of registration can be varied so as to remove these conditions.*
- *Confirmation of the variation must be submitted to [chemicalreview@apvma.gov.au](mailto:chemicalreview@apvma.gov.au) by [DATE – i.e. 1 year from the publication of the section 34AC notice of the chlorpyrifos final regulatory decision].”*

II. Under section 23(2) of the Agvet Code, impose the condition that the registration is only taken to remain in force for 1 year from the publication of the section 34AC notice of the chlorpyrifos final regulatory decision.

- b) Vary the condition of registration referred to as the ‘Agricultural Products Active Constituent Quality Assurance Requirements’, imposed on each chlorpyrifos chemical product registration under section 23(1)(b) of the Agvet Code, as set out in paragraph 31)b) above.
- c) Vary the instructions for use for to reduce the exposure of human beings and non-target species to acceptable levels, as set out in the *Chlorpyrifos Review Technical Report* and paragraphs 31)c)I, 31)c)II, 31)c)III, 31)c)V and 31)d)I of this statement of reasons.
- d) Vary the relevant vary the composition and purity of the chlorpyrifos active constituent entered into the Register, as set out in paragraphs 31)c)VI and 50)a) above and as follows:
  - I. *“Minimum Compositional Standard - Purity Level: 970 g/kg”*
- e) For chemical products whose current distinguishing name would be misleading if the variations proposed in paragraphs 31), 42) and 53) are implemented, vary the distinguishing name entered into the register to be consistent with supported uses.

54) The APVMA is **not satisfied** that the relevant particulars or conditions of the chlorpyrifos chemical products registrations listed in Table 12 in Attachment A of this notice can be varied in such a way as to allow the registration to be affirmed for the following reasons:

- a) The APVMA is **not satisfied** that the safety and trade risks associated with current approved uses of these chemical products can be adequately mitigated, as set out in the *Chlorpyrifos Review Technical Report* and paragraphs 31)c)I, 31)c)II, 31)c)III, 31)c)IV and 42)a)I of this statement of reasons.
- b) The APVMA is **not satisfied** that the relevant particulars or conditions of these chemical products can be varied meet the safety criteria.

55) Section 34AA(1) provides that if the APVMA does not affirm the registration, it must suspend or cancel the registration.

## Labels for chemical products

- 56) Section 34(1)(c) and (d) of the Agvet Code provides that the APVMA must affirm the approval of a product label if, and only if, it is satisfied that the label:
- a) meets the labelling criteria and
  - b) complies with any requirement prescribed by the regulations.
- 57) Subsection 34(2) of the Agvet Code provides that subsection 34(1) applies only to the extent that the APVMA decides to reconsider matters covered by this subsection.
- 58) The APVMA has decided to reconsider all matters covered by subsection 34(1) in relation to the reconsideration of chlorpyrifos label approvals.
- a) For chemical products containing a combination of active constituents, the APVMA has decided to reconsider the matters covered by subsections 34(1)(b) and (d) only to the extent that they relate to the fact that the chemical product contains the active constituent chlorpyrifos.
    - I. Y-TEX Warrior Insecticidal Cattle Ear Tags (Registration Number 51524) contains the second active constituent diazinon and remains subject to the ongoing reconsideration of diazinon approvals and registrations.
    - II. The impact of the second active constituent bifenthrin on relevant chemical product registrations will be considered based on previous assessments of this active constituent.

## Consideration of whether approved labels for chemical products meet the labelling criteria and comply with any requirement prescribed by the regulations

- 59) Section 5D(1) of the Agvet Code provides that a label for containers for a chemical product 'meets the labelling criteria' if the label contains adequate instructions relating to the following as are appropriate:
- a) the circumstances in which the product should be used (5D(1)(a));
  - b) how the product should be used (5D(1)(b));
  - c) the times when the product should be used (5D(1)(c));
  - d) the frequency of the use of the product (5D(1)(d));
  - e) the withholding period after the use of the product (5D(1)(e));
  - f) the re-entry period after the use of the product (5D(1)(f));
  - g) the disposal of the product when it is no longer required (5D(1)(g));
  - h) the disposal of containers of the product (5D(1)(h));
  - i) the safe handling of the product and first aid in the event of an accident caused by the handling of the product (5D(1)(i));

- j) any matters prescribed by the regulations (5D(1)(j)). In this regard, regulation 8AE(1) of the Agvet Regulations prescribes the following:
- I. Regulation 8AE(1)(a) – for a chemical product that is a veterinary chemical product, the duration of the treatment.
  - II. Regulation 8AE(1)(b) – the prevention of undue prejudice to trade or commerce between Australia and places outside of Australia.
  - III. Regulation 8AE(1)(c) – the appropriate signal words (if any) required by the current Poisons Standard.
  - IV. Regulation 8AE(1)(d) – for a chemical product that is a date-controlled product, the storage of containers for the product.
  - V. Regulation 8AE(1)(e) – any other matter determined by the APVMA CEO under regulation 8AE(2).

60) Regulation 17 of the Agvet Regulations prescribes the particulars of a label approval which must be recorded in the relevant APVMA file pursuant to sections 21(a), 6(2)(c) and 21(c)(iva) of the Agvet Code

61) Regulations 18B to 18J of the Agvet Regulations prescribe the conditions of approval to which labels approvals are subject.

62) Section 5D(2) of the Agvet Code provides that for the purposes of being satisfied as to whether the current approved labels for containers for chlorpyrifos chemical products meet the labelling criteria, the APVMA must have regard to the criteria set out in section 5D(2). The APVMA has considered these criteria as follows:

- a) Section 5D(2)(a) of the Agvet Code - any conditions to which its approval is, or would be, subject.
  - I. The APVMA is satisfied that the conditions to which label approvals are subject, as prescribed by regulations 18B to 18J of the Agvet Regulations, remain appropriate and that no further conditions of approval are required.
- b) Section 5D(2)(b) of the Agvet Code - any relevant particulars and instructions that are, or would be, entered in the relevant APVMA file for the label.
  - I. In relation to the circumstances in which the product should be used (s5D(1)(a)):
    - The APVMA is satisfied that the crop/situation and pest statements contained on approved labels remain adequate for products formulated as a slow-release generator (banana bags) and impregnated ear tags.
    - The APVMA is **not satisfied** that the crop/situation and pest statements contained on the approved labels of all other products are adequate, as detailed in the *Chlorpyrifos Review Technical Report* and paragraphs 27)f) and 39)b) of this statement of reasons.
    - The APVMA is **not satisfied** that the instructions on the situations in which the product should be used are adequate, unless the approved label contains the following instruction and restraints, as detailed in the *Reconsideration of chlorpyrifos: Residential exposure assessment and risk characterisation report* and paragraph 27)f)II of this statement of reasons.
      - “THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.”

- “DO NOT use in or around publicly accessible residential, public or commercial areas.”
  - “DO NOT use in areas accessible to children.”
  - The APVMA is **not satisfied** that the name of each chemical product that is to appear on the label for containers of the chemical product would be remain appropriate, if the variations proposed in paragraphs 31), 42) and 53) to mitigate safety and trade risks are implemented would remove use patterns referred to in the product name.
- II. In relation to how the product should be used (s5D(1)(b)):
- The APVMA is satisfied that the instructions for how products should be used, in relation to application rate and method, contained on approved labels remain adequate for products formulated as slow-release generators (banana bags) and a chlorpyrifos impregnated ear tags.
  - The APVMA is **not satisfied** that the instructions for how products should be used (including application rate and method of application) contained on approved labels for all other products are adequate, as detailed in the *Chlorpyrifos Review Technical Report*.
  - The APVMA is **not satisfied** that the instructions on how products should be used contained on all label approvals are adequate to ensure the exposure of non-target species is mitigated, as detailed in the *Chlorpyrifos Review Technical Report*.
- III. In relation to the times when the product should be used (s5D(1)(c)):
- The APVMA is satisfied that the instructions on the times where products should be used contained on approved labels remain adequate for products that are formulated as a slow-release generators (banana bags) and an impregnated ear tags.
  - The APVMA is **not satisfied** that the instructions on the times when products should be used contained on approved labels are adequate for all other chlorpyrifos products, as detailed in the *Chlorpyrifos Review Technical Report*. If the variations proposed in paragraphs 31), 42) and 53) to mitigate unacceptable risks to safety and trade are implemented, the only remaining supported uses for which the APVMA is **not satisfied** that the instructions on the times when products should be used are adequate is the control of insects in potted ornamentals and in and around agricultural, commercial and industrial areas.
- IV. In relation to the frequency of the use of the product (s5D(1)(d)).
- The APVMA is satisfied that the instructions on the frequency of use of products contained on approved labels remain adequate for products that are formulated as a slow-release generators (banana bags) and an impregnated ear tags.
  - The APVMA is **not satisfied** that the instructions on the frequency of use of products contained on approved labels are adequate in all situations for other chlorpyrifos products, as detailed in the *Chlorpyrifos Review Technical Report*. If the variations proposed in paragraphs 31), 42) and 53) to mitigate unacceptable risks to safety and trade are implemented, the APVMA is satisfied of the instructions on the frequency of use of products for remaining supported uses, including use of banana bags and cattle ear tags, treatment of termite nests, and the control of insects in container plants, hides/skins, potted ornamentals, commercial turf and in and around agricultural, commercial and industrial areas.



- V. In relation to the withholding period after the use of the product (s5D(1)(e)):
- The APVMA is satisfied that the withholding periods contained on approved labels for products that are formulated as a slow-release generator (banana bags) and an impregnated ear tags remain adequate.
  - The APVMA is **not satisfied** that withholding periods contained on approved labels are adequate in all situations for other chlorpyrifos products, as detailed in the *Chlorpyrifos Review Technical Report*. If the variations proposed in paragraphs 31), 42) and 53) to mitigate unacceptable risks to safety and trade are implemented, the only remaining supported use for which the APVMA is **not satisfied** that the withholding periods on all relevant approved labels are adequate is the spot spray application to funnel ant mounds in commercial turf.
- VI. The re-entry period after the use of the product (s5D(1)(f)):
- The APVMA is satisfied that re-entry periods are not required on approved labels for products formulated as a slow-release generators (banana bags) and an impregnated ear tags.
  - The APVMA is **not satisfied** that re-entry periods contained on approved labels for all other products are adequate, as detailed in the *Chlorpyrifos Review Technical Report*. If the variations proposed in paragraphs 31), 42) and 53) to mitigate unacceptable risks to safety and trade are implemented, the APVMA is satisfied of the re-entry periods contained on labels for remaining supported uses, including use of banana bags and cattle ear tags, treatment of termite nests, and the control of insects in container plants, hides/skins, potted ornamentals, commercial turf and in and around agricultural, commercial and industrial areas.
- VII. The disposal of the product when it is no longer required (s5D(1)(g)):
- The APVMA is **not satisfied** that disposal instructions for product when it is no longer required contained on approved labels are adequate, noting the best practice guide in the *Agricultural Labelling Code* or *Veterinary Labelling Code* and that it may be an offence to bury chlorpyrifos chemical products in some jurisdictions.
- VIII. The disposal of containers for the product (s5D(1)(h)):
- The APVMA is **not satisfied** that disposal instructions for containers of chlorpyrifos chemical products contained on approved labels are adequate, noting the best practice guide in the *Agricultural Labelling Code* or *Veterinary Labelling Code* and that it may be an offence to bury containers of chlorpyrifos chemical products in some jurisdictions.
- IX. The safe handling of the product and first aid in the event of an accident caused by the handling of the product (s5D(1)(i)).
- The APVMA is satisfied that the safety directions contained on the approved label of the product formulated as an impregnated ear tag remain adequate.
  - The APVMA is satisfied that the first aid instructions contained on the approved label of the products formulated as a slow-release generator (banana bag) remain adequate.

- The APVMA is **not satisfied** that the safety handling instructions and first aid instructions contained on approved labels for all other chlorpyrifos products are adequate, as detailed in the *Chlorpyrifos Review Technical Report*.

X. Any matters prescribed by the regulations (s5D(1)(j)).

- Regulation 8AE(1)(a) of the Agvet Regulations – for a chemical product that is a veterinary chemical product, the duration of the treatment.
  - The APVMA is satisfied that the instructions for duration of the treatment using the ear-tag veterinary chemical product containing chlorpyrifos remains appropriate.
- Regulation 8AE(1)(b) of the Agvet Regulations – the prevention of undue prejudice to trade or commerce between Australia and places outside of Australia.
  - The APVMA is **not satisfied** that there are adequate instructions to prevent undue prejudice to trade or commerce between Australia and places outside of Australia on current label approvals that permit the use of chlorpyrifos on major export commodities, as detailed in the *Chlorpyrifos Review Technical Report* and paragraphs 39)b) of this statement of reasons.
- Regulation 8AE(1)(c) of the Agvet Regulations – the appropriate signal words (if any) required by the current Poisons Standard.
  - The following signal words are required on labels by the current Poisons Standard:
    - As a Schedule 6 poison, the appropriate signal heading is “POISON” and the label requires the cautionary phrase “KEEP OUT OF REACH OF CHILDREN”.
    - As a Schedule 5 poison, the appropriate signal heading is “CAUTION” and the label requires the cautionary phrase “KEEP OUT OF REACH OF CHILDREN”.
    - As safety directions are required on all labels, the signal heading must also include the statement “READ SAFETY DIRECTIONS BEFORE OPENING OR USING”.
    - As the veterinary chemical product is a poison only for the treatment of animals, the signal heading must include the statement “FOR ANIMAL TREATMENT ONLY”
  - The APVMA is satisfied that the appropriate signal words required by the current Poisons Standard are included on current approved labels.
- Regulation 8AE(1)(d) of the Agvet Regulations – for a chemical product that is a date-controlled product, the storage of containers for the product.
  - In regulation 4 of the Agvet Regulations, a date-controlled chemical product is defined as each veterinary chemical product and an agricultural chemical product specified in Schedule 1 of the Agvet Regulations.
  - The APVMA is satisfied that the storage of containers for the veterinary chemical product containing chlorpyrifos remains appropriate.
  - Agricultural chemical products containing chlorpyrifos are not date-controlled chemical products as they are not listed in Schedule 1 of the Agvet Regulations.

- Regulation 8AE(1)(e) of the Agvet Regulations – any other matter determined by the APVMA CEO under regulation 8AE(2).
    - There are no other matters determined by the APVMA CEO under regulation 8AE(2) in relation to chlorpyrifos label approvals.
  - c) Section 5D(2)(c) of the Agvet Code - whether the label conforms, or would conform, to any standard made for the label under section 6E to the extent that the standard relates to matters covered by subsection (1).
    - I. There is no standard made for chlorpyrifos label approvals under section 6E.
  - d) Section 5D(2)(d) of the Agvet Code – any matters prescribed by the regulations.
    - I. Regulation 18E requires that if a labelling standard has not been made by the APVMA, then the label must comply with the requirements of either the *Veterinary Labelling Code*, if the product is a veterinary chemical product, or the *Agricultural Labelling Code*, if the product is an agricultural chemical product.
    - II. The APVMA is **not satisfied** that the approved labels for chlorpyrifos veterinary products comply with the current *Veterinary Labelling Code* and is **not satisfied** that the approved labels for chlorpyrifos agricultural products meet the current *Agricultural Labelling Code*.
    - III. The APVMA remains satisfied that chlorpyrifos labels approvals are compliant with all other matters prescribed by the regulations; specifically, the conditions to which label approvals are subject as prescribed by regulations 18B to 18J.
- 63) The APVMA is **not satisfied** that current approved labels for containers for chlorpyrifos chemical products contain adequate instructions relating to the components set out in paragraph 59) above.
- 64) The APVMA is satisfied that, excluding the instructions contained on the label, all other particulars that are recorded in the relevant APVMA file remain appropriate.

### **Consideration of whether approved labels for chemical products can be varied as to meet the labelling criteria and comply with any requirement prescribed by the regulations**

- 65) Section 34A(1) provides that if the APVMA is not satisfied under section 34(1) but is satisfied that the relevant particulars or conditions of the approval can be varied in such a way as to allow the approval to be affirmed, the APVMA must vary the relevant particulars or conditions.
- 66) The APVMA has considered whether the labels approved for containers for chlorpyrifos chemical products can be varied in such a way as to meet the labelling criteria and comply with any requirement prescribed by the regulations as follows:
- a) To address concerns identified in paragraph 62)b), when considering the criteria in paragraph 5D(2)(b) of the Agvet Code:
    - I. In relation to the concerns identified in paragraph 62)b)I regarding the instructions for the circumstances in which a product should be used (s5D(1)(a)):
      - The APVMA is satisfied that the label approvals listed Table 11 in Attachment A of this notice can be varied to remove the crop/situation and pest statements, and all other associated instructions, for uses

where the safety and trade risks could not be adequately mitigated, as set out in the *Chlorpyrifos Review Technical Report* and paragraphs 31), 42) and 53) of this statement of reasons.

- The APVMA proposes to, where relevant, vary the approved labels listed in Table 11 in Attachment A of this notice to include the following statement of claims and restraints, as set out in paragraph 31)c)V of this statement of reasons and reflected in the proposed labels in Attachment D of this notice:
    - Statement of claims – “*THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.*”
    - Restraints – “*DO NOT use in or around publicly accessible residential, public or commercial areas. DO NOT use in areas accessible to children.*”
  - If the name of the chemical product that is to appear on the label for containers of the chemical product references circumstances for use that are not supported, as set out in paragraphs 31), 42) and 53), the APVMA proposes to vary the name of the chemical product that is to appear on a label for containers of the chemical product.
  - The APVMA is **not satisfied** that label approvals listed in Table 12 can be varied in such a way that there will be adequate instructions in relation to the circumstances in which the products should be used, as the APVMA is **not satisfied** that the safety and trade risks can be adequately mitigated for any uses of these products, as set out in the *Chlorpyrifos Review Technical Report* and paragraphs 31)c)I, 31)c)II, 31)c)III and 42)a)I of this statement of reasons.
- II. In relation to the concerns identified in paragraph 62)b)II and 62)b)III regarding the instructions for how the product should be used (s5D(1)(b)) and the times when the products should be used (s5D(1)(c)), respectively:
- The APVMA proposes to vary the approved labels listed in Table 11 in Attachment A of this notice to include the following restraints (excluding where the use of this application equipment would not be relevant such as banana bags and ear tags), as set out in paragraph 31)c)V of this statement of reasons and reflected in the proposed labels in Attachment D of this notice:
    - “*DO NOT apply using equipment carried on the back of the user. DO NOT apply using mechanically pressurized hand wand sprayer.*”
  - The APVMA proposes to vary the approved labels listed in Table 11 in Attachment A of this notice to include the following environmental protections statements, as set out in paragraph 31)c)V of this statement of reasons and reflected in the proposed labels in Attachment D of this notice:
    - “*Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.*”
    - for labels that include instructions for use in and around agricultural, industrial and commercial areas and in potted ornamentals: “*DO NOT apply if heavy rains or storms are forecast within 3 days.*”
    - for labels that include instructions for use in and around agricultural, industrial and commercial areas and commercial turf: “*Highly toxic to bees. However, the use of this product as directed is not expected to have adverse effects on bees.*”

- for labels that include instructions of use in container plants (surface spray application): *“Highly toxic to bees. To protect bees and pollinating insects when controlling Argentine ants in container plants, DO NOT apply when flowering plants or weeds are present. DO NOT use where bees are actively foraging. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray.”*
  - The APVMA proposes to, where relevant, vary the approved labels listed in Table 11 in Attachment A of this notice to remove the instructions related to the treatment of outdoor termite nests and colonies and include the critical comment *“DO NOT treat outdoor nests, including nests located in trees.”*, as set out in paragraph 31)c)V of this statement of reasons and reflected in the proposed labels in Attachment D of this notice:
- III. In relation to the concerns identified in paragraph 62)b)V regarding the instructions for the withholding period after the use of the product (s5D(1)(e)), the APVMA proposes to vary the relevant label approvals listed in Table 11 to include the withholding period *“DO NOT graze treated turf or lawn; or feed turf or lawn clippings from any treated area to poultry or livestock.”*, as set out in paragraph 31)c)V of this statement of reasons and reflected in the proposed labels in Attachment D of this notice.
- IV. In relation to the concerns identified in paragraph 62)b)VII and 62)b)VIII regarding the disposal of the product when it is no longer required (s5D(1)(g) and disposal of containers for the product (s5D(1)(h), respectively, the APVMA proposes to vary the relevant label approvals listed in Table 11 to include the following disposal instructions:
- Ear tag: *“Deliver tags to an approved waste management facility. If an approved waste management facility is not available, dispose of tags in compliance with relevant local, state or territory government regulations. DO NOT burn tags.”*
  - Slow-release generator (banana bags): *“If recycling, return bags to recycler or designated collection point. If not recycling, deliver bags to an approved waste management facility. If an approved waste management facility is not available, dispose of bags in compliance with relevant local, state or territory government regulations. DO NOT burn bags.”*
  - Water dispersal granular products: *“Single-rinse or shake remainder into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.”*
  - Wettable powder product: *“Shake remainder into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.”*
  - Emulsifiable concentrate products, based on the type of container(s) used:
    - Refillable containers: *“Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.”*

- Non-refillable metal or plastic containers: *“Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.”*
  - DrumMUSTER containers: *“This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced, but may be taken separately.”*
  - Envirodrum containers: *“DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the drum with any water or any other foreign matter. After each use, ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, return empty drum to the point of purchase.”*
- V. In relation to the concerns identified in paragraph 62)b)IX regarding the safe handling of the product and first aid in the event of an accident caused by the handling of the product (s5D(1)(i), the APVMA proposes to vary the relevant label approvals listed in Table 1 to include the following disposal instructions, as set out in paragraph 31)c)V of this statement of reasons and reflected in the proposed labels in Attachment D of this notice:
- First aid warnings for products that contain chlorpyrifos (greater than 5%), excluding when product is formulated as a chlorpyrifos impregnated plastic: *“Breathing vapour or spray mist is harmful and may cause an asthma-like reaction. WARNING – Contains chlorpyrifos, excessive exposure to which may temporarily interfere with vision and the ability to safely operate machinery.”*
  - First aid instructions for products that contain chlorpyrifos (greater than 5%) and liquid hydrocarbon (over 25%): *“If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.”*
  - First aid instructions for products that contain chlorpyrifos (greater than 5%): *“If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.”*
  - First aid instructions for products that contain chlorpyrifos (less than or equal to 5%) or are formulated as a chlorpyrifos impregnated plastic: *“If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.”*

- Safety directions for slow-release generator (banana bags): *“Poisonous if swallowed. Repeated minor exposure may have a cumulative poisoning effect. May irritate the eyes. Avoid contact with eyes and skin. Do not allow children to play with bags. When using the product, wear elbow-length PVC or nitrile gloves and a disposable fume mask with charcoal filter. Wash hands after use. After each day’s use wash gloves.”*
- Safety directions for water dispersible granular products: *“Harmful if swallowed. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes. Avoid contact with eyes. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day’s use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.”*
- Safety directions for wettable powder product: *“Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day’s use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.”*
- Safety directions for emulsifiable concentrate products (500 g/L or less): *“Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day’s use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.”*
- Safety directions for emulsifiable concentrate products (700 g/L or less): *“Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day’s use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.”*

VI. In relation to concerns identified in paragraph 62)b)X regarding the prevention of undue prejudice to trade or commerce between Australia and places outside of Australia, the APVMA proposes to vary the approved labels listed in Table 11 in Attachment A of this notice as follows, as set out in paragraph 31)c)V of this statement of reasons and reflected in the proposed labels in Attachment D of this notice:

- The trade advice statement can be amended on the label approval of the cattle ear tag product as follows: *“EXPORT SLAUGHTER INTERVAL (ESI): DO NOT administer this ear tag product less than 28 days before slaughter for export. Before using this product, confirm the current ESI from Landmark Operations Limited on 1800 448 892 or the APVMA website (apvma.gov.au/residues).”*
- The withholding period *“DO NOT graze treated turf or lawn; or feed turf or lawn clippings from any treated area to poultry or livestock.”* can be added to label approvals that include a use on commercial turf.

VII. For the label approvals listed in Table 11 in Attachment A of this notice, the APVMA is proposing to make the variations outlined above so that it can be satisfied that the instructions regarding the matters listed in section 5D(1) of the Agvet Code, as appropriate, are adequate.

b) In relation to the concerns identified when considering the criteria in section 5D(2)(d) of the Agvet Code related to compliance with the *Veterinary Labelling Code* or *Agricultural Labelling Code*, the APVMA is satisfied that label approvals listed in Table 11 in Attachment A will meet the relevant *Veterinary Labelling Code* or *Agricultural Labelling Code* if they are varied in the ways set out above, and in the additional ways set out below, as reflected in the proposed labels in Attachment D of this notice.

- I. The instructions for small spill management can be varied to the general instruction *“For small spill management, refer to instructions listed in the Safety Data Sheet.”*
- II. The general instruction for disposal of rinsate/rinse water when cleaning spray equipment can be varied to *“Dispose of rinsate/rinse water in compliance with relevant local, state or territory government regulations.”*
- III. The instructions for storage of agricultural chemical products, where the container or contents may be significantly damaged by moisture, can be varied to *“Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight.”*
- IV. The instructions for storage of agricultural chemical products, where the container is impermeable to water, can be varied to *“Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.”*

67) Section 34A(3) of the Agvet Code provides that if the variation would affect instructions for use on a label, the APVMA must not make the variation until it has consulted each co-ordinator designated for a jurisdiction and taken into account any recommendations made by the co-ordinators.

a) The APVMA will consult with each co-ordinator designated for a jurisdiction and take into account any recommendations made by the co-ordinators prior to making any variations that would affect instructions for use on a label, noting the proposals set out in this statement of reasons may be amended after consideration of all consultation submissions.

68) The APVMA is satisfied that the relevant particulars of the label approvals listed in Table 11 can be varied in the ways set out in paragraph 66), so that the labels contain adequate instructions so as to meet the labelling criteria relating to the components set out in paragraph 59) and comply with any requirement prescribed by the regulations.



69) The APVMA is **not satisfied** that the relevant particulars or conditions of the label approvals in Table 12 can be varied so that labels contain adequate instructions so as to meet the labelling criteria relating to the components set out in paragraph 59).

### Conclusion on consideration of approved labels for chemical products

70) Section 34A(1) of the Agvet Code provides that if the APVMA is not satisfied under section 34(1) but is satisfied that the relevant particulars or conditions of the approval can be varied in such a way as to allow the approval to be affirmed, the APVMA must vary the relevant particulars or conditions.

71) The APVMA is satisfied that the relevant particulars of the label approvals listed in Table 11 can be varied to meet the labelling criteria and comply with any requirement prescribed by the regulations, as set out in paragraph 66) of this statement of reasons and as reflected in the proposed labels in Attachment D of this notice.

72) The APVMA is **not satisfied** that the relevant particulars or conditions of the chlorpyrifos chemical products registrations listed in Table 12 can be varied in such a way as to allow the registration to be affirmed for the following reasons:

- a) The APVMA is **not satisfied** that the label approvals can be varied in such a way that there will be adequate instructions in relation to the circumstances in which these products should be used, as set out in paragraph 66)a) of this statement of reasons.

73) Section 34AA(1) provides that if the APVMA does not affirm the approval, it must suspend or cancel the approval.

### Overall conclusions

74) For the purposes of sections 34(1), 34A(1) and 34AA(1) of the Agvet Code, and having regard to the matters set out above, the APVMA has determined that:

- a) regarding chlorpyrifos active constituent approvals, the APVMA is:
  - I. **not satisfied** that the chlorpyrifos active constituent approvals meet the safety criteria nor that the approvals listed in Table 12 comply with any requirement prescribed by the regulations, but is satisfied that the approvals in Table 11 comply with any requirement prescribed by the regulations.
  - II. satisfied that the or conditions of chlorpyrifos active constituent approvals listed in Table 11 can be varied in such a way (as set out in paragraphs 9) and 20) of the statement of reasons) to allow the active constituent approvals to be affirmed.
  - III. **not satisfied** that the particulars or conditions of chlorpyrifos chemical product registrations listed in Table 2 can be varied in such a way to allow the chemical product registrations to be affirmed, for the reasons set out in paragraph 21) of the statement of reasons.
- b) regarding chlorpyrifos chemical product registrations, the APVMA is:
  - I. **not satisfied** that the chlorpyrifos chemical product registrations meet the safety criteria, trade criteria and any requirement prescribed by the regulations.
  - II. satisfied that the chlorpyrifos chemical product registrations meet the efficacy criteria.

- III. satisfied that the particulars and conditions of chlorpyrifos chemical product registrations listed in Table 11 can be varied in such a way (as set out in paragraphs 31), 42), 50) and 53) of the statement of reasons) to allow the chemical product registrations to be affirmed.
  - IV. **not satisfied** that the particulars of chlorpyrifos chemical product registrations listed in Table 2 can be varied in such a way to allow the chemical product registrations to be affirmed, for the reasons set out in paragraphs 54) of the statement of reasons.
- c) regarding chlorpyrifos label approvals, the APVMA is:
- I. **not satisfied** that the labels approvals for containers for chlorpyrifos chemical products meet the labelling criteria and comply with any requirement prescribed by the regulations.
  - II. satisfied that the particulars of chlorpyrifos label approvals listed Table 11 can be varied in such a way (as set out in paragraph 66) of the statement of reasons and as reflected in the proposed labels in Attachment D) to allow the label approvals to be affirmed.
  - III. **not satisfied** that the particulars or conditions of chlorpyrifos label approvals listed in Table 2 can be varied in such a way to allow the label approvals to be affirmed, for the reasons as set out in paragraph 72) of the statement of reasons.

75) Consequently, pursuant to section 34A(1) of the Agvet Code, the APVMA proposes to:

- a) vary the conditions of chlorpyrifos active constituent approvals listed in Table 11 in Attachment A of this notice, in a manner set out in paragraphs 9) and 20) of the statement of reasons, to allow affirmation under section 34(1) of the Agvet Code; and
- b) vary the relevant particulars and conditions of the chemical product registrations listed in Table 11, in a manner set out in paragraphs 31), 42), 50) and 53) of the statement of reasons, to allow affirmation under section 34(1) of the Agvet Code; and
- c) vary the relevant particulars of the label approvals listed in Table 11 in the manner set out in paragraph 66) of the statement of reasons, and as reflected in the proposed labels in Attachment D of this notice, to allow affirmation under section 34(1) of the Agvet Code.

76) Further, pursuant to section 34AA(1) of the Agvet Code, the APVMA proposes to:

- a) cancel the chlorpyrifos active constituent approvals listed in Table 2, as the APVMA is not satisfied that the relevant particulars or conditions of the approvals can be varied in such a way as to allow the approvals to be affirmed; and
- b) cancel the chemical product registrations listed in Table 2, as the APVMA is not satisfied that the relevant particulars or conditions of the registrations can be varied in such a way as to allow the registrations to be affirmed; and
- c) cancel the label approvals listed in Table 2, as the APVMA is not satisfied that the relevant particulars or conditions of the approvals can be varied in such a way as to allow the approvals to be affirmed.

## Preliminary consideration of a phase-out period

- 77) The APVMA has considered whether a phase-out period could be applied to existing chlorpyrifos approvals and registrations in the event of any final decision to suspend, cancel or vary any chlorpyrifos approvals or registrations.
- 78) If, having considered all submissions received in response to this section 34AB notice, the APVMA proceeds to suspend or cancel any chlorpyrifos active constituent approvals, chemical product registrations or label approvals, this will be done in accordance with the Agvet Code and in particular Division 5 of Part 2 of that Code. Division 5 of Part 2 includes requirements regarding the giving of notice of suspensions and cancellations and the inclusion of instructions relating to possession, custody or use of the constituent or product (section 45A). This Division also includes provision in relation to the issuing of a permit to possess, have custody of or use the constituent or product, or product as labelled (section 45B).
- 79) If, having considered all submissions received in response to this section 34AB notice, the APVMA proceeds to vary any chlorpyrifos label approvals, a determination can be made under section 81(3) of the Agvet Code to permit the supply of registered chemical products with labels that were approved at an earlier time for a period allowed by the APVMA.
- 80) While the APVMA has not yet made any final decision to suspend, cancel or vary any chlorpyrifos approvals or registrations, the preliminary view of the APVMA is that, in the event that a decision to cancel, suspend or vary is made, any section 45B permit could have the maximum duration of 12 months and any determination under section 81(3) of the Agvet Code could allow supply of relevant chemical products with the earlier approved label also for a 12 month period.

## Attachment C: Information on which the reasons are based

The information on which the reasons in the draft statement of reasons is based is set out below:

- 1) Information provided in response to notices issued under section 32(1) of the Agvet Code including notices issued on 5 July 1996, 3 December 1996, 1 July 2015, 10 May 2016, 7 August 2017, 30 January 2018, 30 August 2018 and 6 October 2023.
- 2) Information provided in response to notice issued under section 33 of the Agvet Code on 23 January 2023.
- 3) Submissions received in response to notices published in the APVMA Gazette on 3 December 1996, 1 February 2000, 3 October 2000 and 24 June 2019.
- 4) APVMA records for approval of relevant active constituents and registration of the relevant products, including information submitted at the time of approval and registration.
- 5) Other information as detailed in the following assessment reports:
  - a. *Chlorpyrifos Review Technical Report* (APVMA 2023, available at [apvma.gov.au/node/136304](https://www.apvma.gov.au/node/136304)).
  - b. Reconsideration of chlorpyrifos: 2019 Toxicology Update, (APVMA 2019a, available at <https://www.apvma.gov.au/node/50111>)
  - c. Reconsideration of chlorpyrifos: 2019 Worker and Residential Exposure and Risk Characterization Update (APVMA 2019b, available at <https://www.apvma.gov.au/node/50121>)
  - d. Reconsideration of chlorpyrifos: Supplementary environment assessment report (APVMA 2019c, available at <https://www.apvma.gov.au/node/50116>)
  - e. Reconsideration of chlorpyrifos: Supplementary toxicology assessment report (APVMA 2017, available at <https://www.apvma.gov.au/node/26831>)
  - f. Chlorpyrifos preliminary review findings report on additional residues data (APVMA 2009, available at <https://www.apvma.gov.au/node/14761>)
  - g. Chlorpyrifos interim review report: Agricultural assessment (APVMA 2000a, available at <https://www.apvma.gov.au/node/14741>)
  - h. Chlorpyrifos interim review report: Chemistry assessment (APVMA 2000b, available at <https://www.apvma.gov.au/node/19616>)
  - i. Chlorpyrifos interim review report: Environmental assessment (APVMA 2000c, available at <https://www.apvma.gov.au/node/14756>)
  - j. Chlorpyrifos interim review report: Occupational health and safety assessment (APVMA 2000d, available at <https://www.apvma.gov.au/node/14751>)
  - k. Chlorpyrifos interim review report: Summary (APVMA 2000e, available at <https://www.apvma.gov.au/node/14736>)
  - l. Chlorpyrifos interim review report: Toxicology assessment (APVMA 2000f, available at <https://www.apvma.gov.au/node/14746>)
- 6) The relevant provisions of the Agvet Code and instruments under that Code, in particular those set out below:

**Table A1: Agricultural and Veterinary Chemicals Code Act 1994**

Section	Section heading
3	Definitions
5A	Definition of <i>meets the safety criteria</i>
5B	Definition of <i>meets the efficacy criteria</i>
5C	Definition of <i>meets the trade criteria</i>
5D	Definition of <i>meets the labelling criteria</i>
6E	The APVMA may make standards
19	How approval of active constituent takes place
20	How registration of chemical product takes place
21	How approval of label takes place
23	Conditions of approval or registration
31	APVMA may reconsider an approval or registration
33	APVMA may require information, reports, results or samples
34	Reconsideration by APVMA
34A	Varying relevant particulars or conditions to allow affirmation
34AA	Suspension or cancellation
34AB	Notice of proposed decision

**Table A2: Agricultural and Veterinary Chemicals Code Regulations 1995**

Section	Section heading
8AA	Safety criteria – active constituents
8AB	Safety criteria – chemical products
8AD	Trade criteria
8AE	Labelling criteria
15	Particulars of approved active constituents to be recorded
16	Particulars of registered chemical products to be recorded
17	Particulars for label
17C	Conditions of approval or registration – active constituents and chemical products
18	Conditions of registration of chemical products – containers
18E	Labelling standards and requirements

**Table A3: Other legislative instruments under the *Agricultural and Veterinary Chemicals Code Act 1994***

**Legislative instruments**

[Agricultural and Veterinary Chemical Code \(Efficacy Criteria\) Determination 2014](#)

[Agricultural and Veterinary Chemicals Code \(Conditions of Approval or Registration\) Order 2021](#)

[Agricultural and Veterinary Chemicals Code \(Agricultural Active Constituents\) Standards 2022](#)

- 7) Therapeutic Goods (Poisons Standard – October 2023) Instrument 2023 (i.e. the Standard for the Uniform Scheduling of Medicines and Poisons)

## Attachment D: Proposed sample labels for chlorpyrifos chemical products

### Agricultural chemical products

#### Sample label 1: Chlorpyrifos 10 g/kg slow-release generator (banana bags)

<b>Signal heading:</b>	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Product name:</b>	Pyritilene Banana Bags
<b>Constituent statement:</b>	ACTIVE CONSTITUENT: 10 g/kg CHLORPYRIFOS (an anticholinesterase compound)
<b>Mode of action:</b>	Group <b>1B</b> Insecticide
<b>Statement of claims:</b>	For control of rust thrips, sugarcane bud moth and secondary infestations of scab moth in bananas
<b>Net contents:</b>	CONTAINS 300 PYRITILENE BANANA BAGS (12 rolls of 25 bags, which must not be sold separately) Net contents: 13.5 kg
<b>Restrains:</b>	
<b>Directions for use:</b>	[This section contains an attachment below]
<b>Other limitations:</b>	
<b>Withholding period:</b>	WITHHOLDING PERIOD: DO NOT HARVEST FOR 10 WEEKS AFTER APPLICATION.
<b>Trade advice:</b>	
<b>General instructions:</b>	GENERAL INSTRUCTIONS (Qld, NSW, WA) APPLICATION Remove banana bag roll from protective outer covering. Banana bag roll is mounted vertically or horizontally on motorised hoist. Tear bag where the perforation occurs. Bag is then placed over the banana bunch and tied to secure.
<b>Resistance warning:</b>	GROUP 1B INSECTICIDE INSECTICIDE RESISTANCE WARNING For insecticide resistance management Pyritilene Banana Bags is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to Pyritilene Banana Bags and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Pyritilene Banana Bags or other Group 1B insecticides are used repeatedly. The effectiveness of Pyritilene Banana Bags on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, ADAMA Australia Pty Ltd accepts no liability for any losses that may result from the failure of Pyritilene Banana Bags to control resistant insects. Pyritilene Banana Bags may be subject to specific resistance management strategies. For further information contact your local supplier, ADAMA Australia Pty Ltd representative or local agricultural department agronomist.
<b>Precautions:</b>	RE-ENTRY PERMITTED IMMEDIATELY AFTER APPLICATION OF BAGS.
<b>Protection statements:</b>	PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT Highly toxic to birds and reptiles. Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.
<b>Storage and disposal:</b>	Bags will evolve very small amounts of chlorpyrifos when removed from outer packs. Ensure that bags are not removed from their outer protective covering until ready to be used. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Pyritilene Banana bags can only be applied once to banana bunches. The bags are not reusable. If recycling, return bags to recycler or designated collection point. If not recycling, deliver bags to an approved waste management facility. If an approved waste management facility is not available, dispose of bags in compliance with relevant local, state or territory government regulations. DO NOT burn bags.
<b>Safety directions:</b>	Poisonous if swallowed. Repeated minor exposure may have a cumulative poisoning effect. May irritate the eyes. Avoid contact with eyes and skin. Do not allow children to play with bags. When using the

	product, wear elbow-length PVC or nitrile gloves and a disposable fume mask with charcoal filter. Wash hands after use. After each day's use wash gloves.
<b>First aid instructions:</b>	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126.
<b>First aid warnings:</b>	



**Directions for use:**

<b>Crop</b>	<b>Pest</b>	<b>State</b>	<b>Rate</b>	<b>Critical comments</b>
Bananas	<b>Sugercane bud moth</b> ( <i>Opona glycyphaha</i> ) <b>Banana rust thrips</b> ( <i>chaeranaphothrips signipennis</i> ) <b>Banana scab moth</b> ( <i>Nacoleia octa sema</i> )	Qld, NSW, WA	One bag per bunch	<p>Pyritilene banana bags should only be applied as part of an integrated management program for banana pests. This program requires: 1) Correct timing of bag application: and, 2) Additional insecticide treatment prior to the bunch covering stage.</p> <p><u>1) Correct timing of bag application</u></p> <p>Pyritilene bags should be applied as soon as possible after bunch emergence. The recommended timing of application is no later than when the majority of flower bracts have fallen from the bunch, which is usually around 2 weeks after flower (bell) emergence.</p> <p>Later application of pyritilene bags to more developed banana bunches may result in more fruit damage from early pest infestations.</p> <p><u>2) Additional Insecticide Treatments</u></p> <p><u>Butt spray</u> – prior to bunch emergence, a registered butt spray insecticide treatment is recommended for control of rust thrips. Failure to control rust thrips with a butt spray can result in high rust thrips pressure at the bunch covering stage. High rust thrip pressure at the bunch covering stage may result in more fruit damage.</p> <p><u>Bell injection</u> – It is recommended that pyritilene banana bags only be applied following an earlier bell injection insecticide treatment using a registered product. Bell injection should be conducted to control flower thrips and primary scab moth infestations, as well as to provide some control of early infestations of rust thrip.</p> <p>Pyritilene bags can control secondary infestations of scab moth. For effective scab moth control, it is recommended that pyritilene bags are applied to bunches that have had a bell injection insecticide treatment.</p>

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

Sample label 2: Chlorpyrifos 450 g/L emulsifiable concentrate<sup>3</sup>

<b>Signal heading:</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Product name:</b>	[INSERT HERE]
<b>Constituent statement:</b>	ACTIVE CONSTITUENT: 450 g/L CHLORPYRIFOS (an anticholinesterase compound) SOLVENT: [INSERT CONCENTRATION] g/L LIQUID HYDROCARBONS
<b>Mode of action:</b>	Group <b>1B</b> Insecticide
<b>Statement of claims:</b>	For the treatment of termite nests in wall cavities in accord with AS3600.2 and the control of other insect pests as per the directions for use table. THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.
<b>Net contents:</b>	[INSERT HERE]
<b>Restrains:</b>	Restrains DO NOT use in or around publicly accessible residential, public or commercial areas. DO NOT use in areas accessible to children. DO NOT apply using equipment carried on the back of the user. DO NOT apply using mechanically pressurized hand wand sprayer. DO NOT spray polycarbonate surfaces/roof sheeting or aged vinyl wall cladding as solvent may cause etching.
<b>Directions for use:</b>	[This section contains an attachment below]
<b>Other limitations:</b>	
<b>Withholding period:</b>	
<b>Trade advice:</b>	
<b>General instructions:</b>	GENERAL INSTRUCTIONS MIXING Half fill the spray tank with water (and add the required amount of [trade name], then add the remaining water with an agitator running. Only mix sufficient chemical for each specific application. CLEANING SPRAY EQUIPMENT After using [trade name], empty the spray equipment completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, and drain. To wash the system, quarter fill the tank with clean water and circulate through the lines, hoses and nozzles. Drain and repeat the washing procedure twice. Dispose of rinsate/rinse water in compliance with relevant local, state or territory government regulations. SMALL SPILL MANAGEMENT For small spill management, refer to instructions listed in the Safety Data Sheet. TERMITE NESTS Subterranean termites may establish a colony in a building without having contact with the soil because they have access to a continuous supply of moisture (eg. from a faulty plumbing fixture or leaking roof). Such colonies are not affected by chemical soil barriers and should be treated as recommended for established colonies, as per Australian Standard Series AS 3660. [Trade name] may be applied directly to the termite colony in such situations.
<b>Resistance warning:</b>	GROUP 1B INSECTICIDE INSECTICIDE RESISTANCE WARNING For insecticide resistance management [trade name] is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to [trade name] and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if [trade name] or other Group 1B insecticides are used repeatedly. The effectiveness of [trade name] on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, [company name] accepts no liability for any losses that may result from the failure of [trade name] to control resistant insects. [Trade name] may be subject to specific resistance management strategies. For further information contact your local supplier, [company name] representative or local agricultural department agronomist.
<b>Precautions:</b>	RE-ENTRY TO TREATED AREAS – TERMITICIDE USE

<sup>3</sup> use patterns included in the directions for use may not be applicable to all products and some minor variations in instructions for use may exist across labels.

	DO NOT permit re-occupation of any premises until treated areas are completely dry (normally 3–4 hours) and adequately ventilated.
<b>Protection statements:</b>	<p><b>Protection of pets and livestock</b></p> <p>Before spraying remove animals and pets from buildings and other areas to be treated. Cover or remove any open food and water containers. Cover or remove fish tanks before spraying. DO NOT allow animals and pets to contact treated areas for at least 24 hours.</p> <p><b>Protection of wildlife, fish, crustaceans and environment</b></p> <p>Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. DO NOT apply if heavy rains or storms are forecast within 3 days.</p> <p><b>Protection of honey bees and other insect pollinators</b></p> <p>Highly toxic to bees. However, the use of this product as directed is not expected to have adverse effects on bees.</p>
<b>Storage and disposal:</b>	<p>Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.</p> <p><i>Refillable containers:</i></p> <p>Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p> <p><i>Non-refillable metal or plastic containers:</i></p> <p>Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.</p> <p><i>drumMUSTER containers:</i></p> <p>This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced but may be taken separately.</p> <p><i>Envirodrums:</i></p> <p>DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the drum with any water or any other foreign matter. After each use, ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, return empty drum to the point of purchase.</p>
<b>Safety directions:</b>	<p>Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.</p>
<b>First aid instructions:</b>	<p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</p>
<b>First aid warnings:</b>	<p>Breathing vapour or spray mist is harmful and may cause an asthma-like reaction. WARNING – Contains chlorpyrifos, excessive exposure to which may temporarily interfere with vision and the ability to safely operate machinery.</p>

**Directions for use:**

<b>Situation</b>	<b>Pest</b>	<b>States</b>	<b>Rate</b>	<b>Critical Comments</b>
Commercial and industrial areas not accessible to the public	Ants including Argentine ants (outdoor use only)	All states	110 mL/10 L of water	Use at least 1 L spray/10 m <sup>2</sup> infested area. Locate ant nests and treat appropriately. Spray ant tracks or where ant activity is noticed. Apply to paths in continuous 300 mm bands. Apply to base of buildings, walls, fences, rock-works, trunks of shrubs and trees, and other hard surfaces to a height of 300 mm.
	Fleas (outdoor use only)	All states	110 mL/10 L of water	Apply as a fine droplet spray. <b>Outdoors only:</b> Treat areas where animals frequent. Remove animals during treatment and until spray deposit is dry. DO NOT treat pets with this product. Pets should be treated with a product registered for application to animals.
Hides/skins	Hide Beetles	All states	220 mL/100 L of water Use at least 30 mL of spray/skin	Apply spray to flesh side of skins or hides sufficient to moisten them. Ensure coverage of ears and lugs. To minimise the chance of later infestations, storage area should be sprayed regularly. Repeat application every 3 months.
Treatment of termite nest or colony in wall cavities	Termite colony	Vic, NSW, Qld, WA, ACT, SA, NT	110 mL/10 L of water	Once the nest or colony has been located it should be broken open and flooded with emulsion If the nest is not accessible, holes should be drilled into the nest and the termiticide injected. In order to ensure eradication, the position of the royal cell should be identified by using a temperature probe and the immediate areas around it targeted. Refer to Australian Standard Series AS 3660. DO NOT treat outdoor nests, including nests located in trees.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

Sample label 3: Chlorpyrifos 500 g/L emulsifiable concentrate (insecticide uses only)<sup>4</sup>

<b>Signal heading:</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Product name:</b>	[INSERT HERE]
<b>Constituent statement:</b>	ACTIVE CONSTITUENT: 500 g/L CHLORPYRIFOS (an anticholinesterase compound) SOLVENT: [INSERT CONCENTRATION] LIQUID HYDROCARBONS
<b>Mode of action:</b>	Group <b>1B</b> Insecticide
<b>Statement of claims:</b>	For the control of a wide range of insect pests in various situations as per the directions for use table. THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.
<b>Net contents:</b>	[INSERT HERE]
<b>Restrains:</b>	Restrains DO NOT use in or around publicly accessible residential, public or commercial areas. DO NOT use in areas accessible to children.  DO NOT apply using equipment carried on the back of the user. DO NOT apply using mechanically pressurized hand wand sprayer. DO NOT spray polycarbonate surfaces/roof sheeting or aged vinyl wall cladding as solvent may cause etching
<b>Directions for use:</b>	[This section contains an attachment below]
<b>Other limitations:</b>	
<b>Withholding period:</b>	DO NOT graze treated turf or lawn; or feed turf or lawn clippings from any treated area to poultry or livestock
<b>Trade advice:</b>	
<b>General instructions:</b>	Thorough coverage is essential. Mixing: Add the required amount of product to the water in the spray tank while stirring or agitating. Agitate while spraying. SMALL SPILL MANAGEMENT For small spill management, refer to instructions listed in the Safety Data Sheet.
<b>Resistance warning:</b>	GROUP 1B INSECTICIDE INSECTICIDE RESISTANCE WARNING For insecticide resistance management [trade name] is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to [trade name] and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if [trade name] or other Group 1B insecticides are used repeatedly. The effectiveness of [trade name] on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, [company name] accepts no liability for any losses that may result from the failure of [trade name] to control resistant insects. [Trade name] may be subject to specific resistance management strategies. For further information contact your local supplier, [company name] representative or local agricultural department agronomist.
<b>Precautions:</b>	
<b>Protection statements:</b>	Protection of wildlife, fish, crustaceans and environment Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. DO NOT apply if heavy rains or storms are forecast within 3 days. Protection of honey bees and other insect pollinators Highly toxic to bees. However, the use of this product as directed is not expected to have adverse effects on bees.
<b>Storage and disposal:</b>	Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. <i>Refillable containers:</i> Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage. <i>Non-refillable metal or plastic containers:</i> Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted

<sup>4</sup> use patterns included in the directions for use may not be applicable to all products and some minor variations in instructions for use may exist across labels.

	<p>chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.</p> <p><i>drumMUSTER containers:</i> This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced but may be taken separately.</p> <p><i>Envirodrums:</i> DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the drum with any water or any other foreign matter. After each use, ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, return empty drum to the point of purchase.</p>
<b>Safety directions:</b>	<p>Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.</p>
<b>First aid instructions:</b>	<p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</p>
<b>First aid warnings:</b>	<p>Breathing vapour or spray mist is harmful and may cause an asthma-like reaction. WARNING – Contains chlorpyrifos, excessive exposure to which may temporarily interfere with vision and the ability to safely operate machinery.</p>

**Directions for use:**

<b>Situation</b>	<b>Pest</b>	<b>States</b>	<b>Rate</b>	<b>Critical Comments</b>
Agricultural, commercial and industrial areas not accessible to the public	Argentine ant (outdoor use only)	Vic, NSW, ACT, Tas, SA and WA only	1 L/100 L water	Spray ant tracts, nests or where ant activity is noticed. Apply to paths in continuous 30 cm bands. Apply to base of building walls, fences, rockwork trunks or shrubs and trees, and other hard surfaces to a height of 30 cm.
Commercial and industrial areas not accessible to the public	Ants including Argentine ants (outdoor use only)	All states	95 mL/10 L of water Use at least 1 L spray/10 m <sup>2</sup> infested area	Locate ant nests and treat appropriately. Spray ant tracks or where ant activity is noticed. Apply to paths in continuous 300 mm bands. Apply to base of buildings, walls, fences, rock-works, trunks of shrubs and trees, and other hard surfaces to a height of 300 mm.
	Fleas (outdoor use only)	All states	90 mL/10 L of water	Apply as a fine droplet spray. <b>Outdoors only:</b> Treat areas where animals frequent. Remove animals during treatment and until spray deposit is dry. DO NOT treat pets with this product. Pets should be treated with a product registered for application to animals.
Commercial turf to which the public do not have access	Funnel Ant	Qld, NSW, ACT only	5 mL/5 L water spot spray	For spot spraying apply 30 mL spray to each mound. In areas of high density a repeat application may be necessary to ensure thorough mound coverage.
Hides/skins	Hide Beetles	All states	200 mL/100 L of water Use at least 30 mL of spray/skin	Apply spray to flesh side of skins or hides sufficient to moisten them. Ensure coverage of ears and lugs. To minimise the chance of later infestations, storage area should be sprayed regularly. Repeat application every 3 months.
Potted ornamentals – commercial cultivation only	Scarab Beetles – Larvae	Qld only	20 to 40 mL/100 L water	Apply mixture as a pot drench and water through. Drenching may cause root damage and should be tested on a few plants before widespread treatment.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

Sample label 4: Chlorpyrifos 500 g/L emulsifiable concentrate (insecticide and termiticide uses)<sup>5</sup>

<b>Signal heading:</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Product name:</b>	[INSERT HERE]
<b>Constituent statement:</b>	ACTIVE CONSTITUENT: 500 g/L CHLORPYRIFOS (an anticholinesterase compound) SOLVENT: [INSERT CONCENTRATION] g/L LIQUID HYDROCARBONS
<b>Mode of action:</b>	Group <b>1B</b> Insecticide
<b>Statement of claims:</b>	For the control of certain insect pests in various situation and for treatment of termite nests in wall cavities in accord with AS3600.2 as per the directions for use table. THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.
<b>Net contents:</b>	[INSERT HERE]
<b>Restrains:</b>	Restrains DO NOT use in or around publicly accessible residential, public or commercial areas. DO NOT use in areas accessible to children. DO NOT apply using equipment carried on the back of the user. DO NOT apply using mechanically pressurized hand wand sprayer. DO NOT spray polycarbonate surfaces/roof sheeting or aged vinyl wall cladding as solvent may cause etching.
<b>Directions for use:</b>	[This section contains an attachment below]
<b>Other limitations:</b>	
<b>Withholding period:</b>	DO NOT graze treated turf or lawn; or feed turf or lawn clippings from any treated area to poultry or livestock
<b>Trade advice:</b>	
<b>General instructions:</b>	GENERAL INSTRUCTIONS: FOR USE AS AN INSECTICIDE MIXING Half fill the spray tank with clean, fresh water and add the required amount of [trade name] then add the remaining water with the agitator running. Only mix sufficient chemical for each day's work. CLEANING SPRAY EQUIPMENT After using [trade name], empty the spray equipment completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, and drain. To wash the system, quarter fill the tank with clean water and circulate through the lines, hoses and nozzles. Drain and repeat the washing procedure twice. Dispose of rinsate/rinse water in compliance with relevant local, state or territory government regulations. SMALL SPILL MANAGEMENT For small spill management, refer to instructions listed in the Safety Data Sheet. TERMITE NESTS Subterranean termites may establish a colony in a building without having contact with the soil because they have access to a continuous supply of moisture (eg. from a faulty plumbing fixture or leaking roof). Such colonies are not affected by chemical soil barriers and should be treated as recommended for established colonies, as per Australian Standard Series AS 3660. [Trade name] may be applied directly to the termite colony in such situations.
<b>Resistance warning:</b>	GROUP 1B INSECTICIDE INSECTICIDE RESISTANCE WARNING For insecticide resistance management [trade name] is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to [trade name] and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if [trade name] or other Group 1B insecticides are used repeatedly. The effectiveness of [trade name] on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, [company name] accepts no liability for any losses that may result from the failure of [trade name] to control resistant insects. [Trade name] may be subject to specific resistance management strategies. For further information contact your local supplier, [company name] representative or local agricultural department agronomist.
<b>Precautions:</b>	RE-ENTRY TO TREATED AREAS – TERMITICIDE USE

<sup>5</sup> use patterns included in the directions for use may not be applicable to all products and some minor variations in instructions for use may exist across labels.



	DO NOT permit re-occupation of any premises until treated areas are completely dry (normally 3–4 hours) and adequately ventilated.
<b>Protection statements:</b>	<p><b>Protection of pets and livestock</b></p> <p>Before spraying, remove animals and pets from buildings and other areas to be treated. Cover or remove any open food and water containers. Cover or remove fish tanks before spraying. DO NOT allow animals and pets to contact treated areas for at least 24 hours.</p> <p><b>Protection of wildlife, fish, crustaceans and environment</b></p> <p>Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. DO NOT apply if heavy rains or storms are forecast within 3 days.</p> <p><b>Protection of honey bees and other insect pollinators</b></p> <p>Highly toxic to bees. However, the use of this product as directed is not expected to have adverse effects on bees.</p>
<b>Storage and disposal:</b>	<p>Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.</p> <p><i>Refillable containers:</i></p> <p>Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p> <p><i>Non-refillable metal or plastic containers:</i></p> <p>Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.</p> <p><i>drumMUSTER containers:</i></p> <p>This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced but may be taken separately.</p> <p><i>Envirodrums:</i></p> <p>DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the drum with any water or any other foreign matter. After each use, ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, return empty drum to the point of purchase.</p>
<b>Safety directions:</b>	<p>Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.</p>
<b>First aid instructions:</b>	<p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</p>
<b>First aid warnings:</b>	<p>Breathing vapour or spray mist is harmful and may cause an asthma-like reaction. WARNING – Contains chlorpyrifos, excessive exposure to which may temporarily interfere with vision and the ability to safely operate machinery.</p>

**Directions for use:**

<b>SITUATION</b>	<b>PEST</b>	<b>STATES</b>	<b>RATE</b>	<b>CRITICAL COMMENTS</b>
Commercial and industrial areas not accessible to the public	Argentine ant (outdoor use only)	Vic, NSW, ACT, Tas, SA and WA only	1 L/100 L water	Spray ant tracts, nests or where ant activity is noticed. Apply to paths in continuous 30 cm bands. Apply to base of building walls, fences, rockwork trunks or shrubs and trees, and other hard surfaces to a height of 30 cm.
	Ants including Argentine ants (outdoor use only)	All states	95 mL/10 L of water Use at least 1 L spray/10 m <sup>2</sup> infested area	Locate ant nests and treat appropriately. Spray ant tracks or where ant activity is noticed. Apply to paths in continuous 300 mm bands. Apply to base of buildings, walls, fences, rock-works, trunks of shrubs and trees, and other hard surfaces to a height of 300 mm.
	Fleas (outdoor use only)	All states	90 mL/10 L of water	Apply as a fine droplet spray. <b>Outdoors only:</b> Treat areas where animals frequent. Remove animals during treatment and until spray deposit is dry. DO NOT treat pets with this product. Pets should be treated with a product registered for application to animals.
Commercial turf to which the public do not have access	Funnel Ant	Qld, NSW, ACT only	5 mL/5 L water spot spray	For spot spraying apply 30 mL spray to each mound. In areas of high density, a repeat application may be necessary to ensure thorough mound coverage. <b>DO NOT GRAZE TREATED TURF OR FEED TREATED GRASS CLIPPINGS TO ANIMALS.</b>
Hides/skins	Hide Beetles	All states	200 mL/100 L of water Use at least 30 mL of spray/skin	Apply spray to flesh side of skins or hides sufficient to moisten them. Ensure coverage of ears and lugs. To minimise the chance of later infestations, storage area should be sprayed regularly. Repeat application every 3 months.
Potted ornamentals – commercial cultivation only	Scarab Beetles – Larvae	Qld only	20 to 40 mL/100 L water	Apply mixture as a pot drench and water through. Drenching may cause root damage and should be tested on a few plants before widespread treatment.
Treatment of termite nest or colony in wall cavities	Termite colony	Vic, NSW, Qld, WA, ACT, SA, NT	110 mL/10 L of water	Once the nest or colony has been located it should be broken open and flooded with emulsion If the nest is not accessible, holes should be drilled into the nest and the termiticide injected. In order to ensure eradication, the position of the royal cell should be identified by using a temperature probe and the immediate areas around it targeted. Refer to Australian Standard Series AS 3660. DO NOT treat outdoor nests, including nests located in trees.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

## Sample label 5: Chlorpyrifos 500 g/kg wettable powder

<b>Signal heading:</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Product name:</b>	STRIKE-OUT 500 WP INSECTICIDE
<b>Constituent statement:</b>	ACTIVE CONSTITUENT: 500 g/kg CHLORPYRIFOS (an anticholinesterase compound)
<b>Mode of action:</b>	Group <b>1B</b> Insecticide
<b>Statement of claims:</b>	For the control of Argentine ants in commercial container plants in soil or other growing media. THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.
<b>Net contents:</b>	[INSERT HERE]
<b>Restrains:</b>	Restrains DO NOT use in or around publicly accessible residential, public or commercial areas. DO NOT use in areas accessible to children. DO NOT apply using equipment carried on the back of the user. DO NOT apply using mechanically pressurized hand wand sprayer.
<b>Directions for use:</b>	[This section contains an attachment below]
<b>Other limitations:</b>	
<b>Withholding period:</b>	
<b>Trade advice:</b>	
<b>General instructions:</b>	<p><b>MIXING</b></p> <p>Spray mix</p> <p>One third fill the spray tank with water and add the required number of water soluble prepacks to the strainer/sieve. Complete filling allowing the remaining water to run over the bags. The bags will completely dissolve in a few minutes.</p> <p>OR</p> <p>Add the required number of pre-packs to a mixing bucket and add enough water to completely cover the bags. Stir until the bags are completely dissolved and pour the premix into the spray tank. Triple rinse the bucket and stirring implement, adding the rinse water to the spray tank. Agitate continuously to ensure thorough mixing before and during application. Only mix sufficient chemical for each day's work.</p> <p>Tank mixtures</p> <p>STRIKE-OUT® 500 WP should be added to the partially full spray tank first, followed by dry flowables, suspension concentrates (flowables), aqueous concentrates and then emulsifiable concentrate formulations.</p> <p><b>APPLICATION</b></p> <p>Unless specified, it is essential to apply STRIKE-OUT® 500 WP in sufficient water to obtain thorough coverage. Apply through accurately calibrated equipment.</p> <p><b>CLEANING SPRAY EQUIPMENT</b></p> <p>After using STRIKE-OUT® 500 WP, empty the spray equipment completely and drain the whole system. Quarter fill the spray equipment with clean water and circulate through the line, hoses and nozzles. Drain and repeat procedure twice. Dispose of rinsate/rinse water in compliance with relevant local, state or territory government regulations.</p> <p><b>SMALL SPILL MANAGEMENT</b></p> <p>For small spill management, refer to instructions listed in the Safety Data Sheet.</p>
<b>Resistance warning:</b>	<p>GROUP 1B INSECTICIDE INSECTICIDE RESISTANCE WARNING</p> <p>For insecticide resistance management STRIKE-OUT® 500 WP is a Group 1B insecticide.</p> <p>Some naturally occurring insect biotypes resistant to STRIKE-OUT® 500 WP and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if ADAMA Australia Pty Ltd or other Group 1B insecticides are used repeatedly. The effectiveness of STRIKE-OUT® 500 WP on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, ADAMA Australia Pty Ltd accepts no liability for any losses that may result from the failure of STRIKE-OUT® 500 WP to control resistant insects.</p>

	STRIKE-OUT® 500 WP may be subject to specific resistance management strategies. For further information contact your local supplier, ADAMA Australia Pty Ltd representative or local agricultural department agronomist.
<b>Precautions:</b>	
<b>Protection statements:</b>	<p><b>Protection of wildlife, fish, crustaceans and environment</b></p> <p>Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. DO NOT apply if heavy rains or storms are forecast within 3 days.</p> <p><b>Protection of honey bees and other insect pollinators</b></p> <p>Highly toxic to bees. To protect bees and pollinating insects when controlling Argentine ants in container plants, DO NOT apply when flowering plants or weeds are present. DO NOT use where bees are actively foraging. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray.</p>
<b>Storage and disposal:</b>	Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Shake remainder into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.
<b>Safety directions:</b>	Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.
<b>First aid instructions:</b>	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
<b>First aid warnings:</b>	Breathing vapour or spray mist is harmful and may cause an asthma-like reaction. WARNING – Contains chlorpyrifos, excessive exposure to which may temporarily interfere with vision and the ability to safely operate machinery.

**Directions for use:**

<b>Crop</b>	<b>Pest</b>	<b>State</b>	<b>Rate</b>	<b>Critical Comments</b>
Container plants in soil or other growing media – for commercial production only	Argentine ants ( <i>Linepithema humile</i> )	Tas only	250 g/25 L water (1 measure pack per 25 L water)	To meet requirements to enter Tasmania, treat the base of plants and the surface of growing media. A white deposit will remain.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

Sample label 6: Chlorpyrifos 700 g/L emulsifiable concentrate<sup>6</sup>

<b>Signal heading:</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Product name:</b>	[INSERT HERE]
<b>Constituent statement:</b>	ACTIVE CONSTITUENT: 700 g/L CHLORPYRIFOS (an anticholinesterase compound) SOLVENT: 500 g/L PHENYL METHYL KETONE
<b>Mode of action:</b>	Group <b>1B</b> Insecticide
<b>Statement of claims:</b>	For the control of a wide range of insect pests in various situations as per the directions for use table. THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.
<b>Net contents:</b>	5 L – 1000 L
<b>Restrains:</b>	Restrains DO NOT use in or around publicly accessible residential, public or commercial areas. DO NOT use in areas accessible to children. DO NOT apply using equipment carried on the back of the user. DO NOT apply using mechanically pressurized hand wand sprayer. DO NOT spray polycarbonate surfaces/ roof sheeting or aged vinyl wall cladding as solvent may cause etching.
<b>Directions for use:</b>	[This section contains an attachment below]
<b>Other limitations:</b>	
<b>Withholding period:</b>	
<b>Trade advice:</b>	
<b>General instructions:</b>	GENERAL INSTRUCTIONS Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions. Thorough coverage is essential. MIXING Half fill the spray tank with clean, fresh water and add the measured amount of [trade name] then add the remaining water with the agitator running. Add wetter near the end of filling with the hose below the surface to prevent excess foaming. Only mix sufficient chemical for specific application. CLEANING SPRAY EQUIPMENT After using [trade name], empty the spray equipment completely and drain the whole system. Thoroughly wash inside the tank using a pressurehose, and drain. To wash the system, quarter fill the tank with clean water and circulate through the lines, hoses and nozzles. Drain and repeat the washing procedure twice. Dispose of rinsate/rinse water in compliance with relevant local, state or territory government regulations. SMALL SPILL MANAGEMENT For small spill management, refer to instructions listed in the Safety Data Sheet.
<b>Resistance warning:</b>	GROUP 1B INSECTICIDE INSECTICIDE RESISTANCE WARNING For insecticide resistance management [trade name] is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to [trade name] and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if [trade name] or other Group 1B insecticides are used repeatedly. The effectiveness of [trade name] on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, [company name] accepts no liability for any losses that may result from the failure of [trade name] to control resistant insects. [Trade name] may be subject to specific resistance management strategies. For further information contact your local supplier, [company name] representative or local agricultural department agronomist.
<b>Precautions:</b>	
<b>Protection statements:</b>	Protection of wildlife, fish, crustaceans and environment Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. DO NOT apply if heavy rains or storms are forecast within 3 days. Protection of honey bees and other insect pollinators

<sup>6</sup> use patterns included in the directions for use may not be applicable to all products and some minor variations in instructions for use may exist across labels.

	Highly toxic to bees. However, the use of this product as directed is not expected to have adverse effects on bees.
<b>Storage and disposal:</b>	<p>Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.</p> <p><i>Refillable containers:</i> Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p> <p><i>Non-refillable metal or plastic containers:</i> Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.</p> <p><i>drumMUSTER containers:</i> This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced, but may be taken separately.</p> <p><i>Envirodrums:</i> DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the drum with any water or any other foreign matter. After each use, ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, return empty drum to the point of purchase.</p>
<b>Safety directions:</b>	Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale vapour or spray mist. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.
<b>First aid instructions:</b>	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, do NOT induce vomiting. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
<b>First aid warnings:</b>	Breathing vapour or spray mist is harmful and may cause an asthma-like reaction. WARNING – Contains chlorpyrifos, excessive exposure to which may temporarily interfere with vision and the ability to safely operate machinery.

**Directions for use:**

<b>SITUATION</b>	<b>PEST</b>	<b>RATE</b>	<b>CRITICAL COMMENTS</b>
Commercial and industrial areas not accessible to the public	Ants including Argentine Ants (outdoor use only)	75 mL/10 L of water Use at least 1 L spray/10 m <sup>2</sup> infested area	Locate ant nests and treat appropriately and spray ant tracks or where ant activity is noticed. Apply to paths in continuous 30 cm bands. Apply to base of buildings, walls, fences, rockwork, trunks of shrubs and trees, and other hard surfaces to a height of 300 mm.
	Fleas (outdoor use only)	65 mL/10 L of water	Apply as a fine droplet spray. <b>Outdoors only:</b> Treat areas where animals frequent. Remove animals during treatment and until spray deposit is dry. DO NOT treat pets with this product. Pets should be treated with a product registered for application to animals.
Hides/skins	Hide Beetles	145 mL/100 L of water Use at least 30 mL of spray/skin	Apply spray to flesh side of skins or hides sufficient to moisten them. Ensure coverage of ears and lugs. To minimise the chance of later infestations, storage area should be sprayed regularly. Repeat application every 3 months.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**



Sample label 7: Chlorpyrifos 750 g/kg wettable granule product<sup>7</sup>

<b>Signal heading:</b>	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Product name:</b>	[INSERT HERE]
<b>Constituent statement:</b>	ACTIVE CONSTITUENT: 750 g/kg CHLORPYRIFOS (an anticholinesterase compound)
<b>Mode of action:</b>	Group <b>1B</b> Insecticide
<b>Statement of claims:</b>	For the control of Argentine ants in commercial container plants in soil or other growing media. THIS PRODUCT IS TOO HAZARDOUS FOR USE BY HOUSEHOLDERS.
<b>Net contents:</b>	[INSERT HERE]
<b>Restrains:</b>	Restrains DO NOT use in or around publicly accessible residential, public or commercial areas. DO NOT use in areas accessible to children. DO NOT apply using equipment carried on the back of the user. DO NOT apply using mechanically pressurized hand wand sprayer
<b>Directions for use:</b>	[This section contains an attachment below]
<b>Other limitations:</b>	
<b>Withholding period:</b>	
<b>Trade advice:</b>	
<b>General instructions:</b>	GENERAL INSTRUCTIONS MIXING Spray Mix: One third fill the spray tank with water and add the contents of the required number of 333g packs to the spray tank. Complete filling. OR Add water to a mixing bucket and then add the contents of the required number of 333 g packs. Stir and pour the pre-mix into the spray tank. Triple rinse the bucket and stirring implement, adding the rinse water to the spray tank. Agitate continuously to ensure thorough mixing before and during application. Only mix sufficient chemical for each day's work. Tank mixtures: [Trade name] should be added to the partially full spray tank first, followed by dry flowables, suspension concentrates (flowables), aqueous concentrates and then emulsifiable concentrate formulations. APPLICATION Unless specified, it is essential to apply [trade name] in sufficient water to obtain thorough coverage. Apply through accurately calibrated equipment. CLEANING SPRAY EQUIPMENT After using [trade name], empty the spray equipment completely and drain the whole system. Quarter fill the spray equipment with clean water and circulate through the line, hoses and nozzles. Drain and repeat procedure twice. Dispose of rinsate/rinse water in compliance with relevant local, state or territory government regulations. SMALL SPILL MANAGEMENT For small spill management, refer to instructions listed in the Safety Data Sheet.
<b>Resistance warning:</b>	GROUP 1B INSECTICIDE INSECTICIDE RESISTANCE WARNING For insecticide resistance management [trade name] is a Group 1B insecticide. Some naturally occurring insect biotypes resistant to [trade name] and other Group 1B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if [trade name] or other Group 1B insecticides are used repeatedly. The effectiveness of [trade name] on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, [company name] accepts no liability for any losses that may result from the failure of [trade name] to control resistant insects. [Trade name] may be subject to specific resistance management strategies. For further information contact your local supplier, [company name] representative or local agricultural department agronomist.
<b>Precautions:</b>	
<b>Protection statements:</b>	<b>Protection of wildlife, fish, crustaceans and environment</b>

<sup>7</sup> use patterns included in the directions for use may not be applicable to all products and some minor variations in instructions for use may exist across labels.

	<p>Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. DO NOT apply if heavy rains or storms are forecast within 3 days.</p> <p><b>Protection of honey bees and other insect pollinators</b></p> <p>Highly toxic to bees. To protect bees and pollinating insects when controlling Argentine ants in container plants, DO NOT apply when flowering plants or weeds are present. DO NOT use where bees are actively foraging. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is potential for managed hives to be affected by the spray.</p>
<b>Storage and disposal:</b>	<p>Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Single-rinse or shake remainder into spray tank. DO NOT dispose of undiluted chemicals on site. Puncture and deliver empty packaging or unused product to an approved waste management facility. If an approved waste management facility is not available, dispose of empty container or unused product in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.</p>
<b>Safety directions:</b>	<p>Harmful if swallowed. Repeated minor exposure may have a cumulative poisoning effect. Will irritate eyes. Avoid contact with eyes. When opening the container, preparing the spray and using the prepared spray, wear chemical resistant clothing buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves, face shield or goggles, chemical resistant footwear and a half facepiece respirator with combined dust and gas cartridge. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (if rubber wash with detergent and warm water) and contaminated clothing.</p>
<b>First aid instructions:</b>	<p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</p>
<b>First aid warnings:</b>	<p>Breathing vapour or spray mist is harmful and may cause an asthma-like reaction. WARNING – Contains chlorpyrifos, excessive exposure to which may temporarily interfere with vision and the ability to safely operate machinery.</p>

**DIRECTIONS FOR USE:**

<b>CROP</b>	<b>PEST</b>	<b>STATE</b>	<b>RATE</b>	<b>CRITICAL COMMENTS</b>
Container plants in soil or other growing media – for commercial production only	Argentine ants ( <i>Linepithema humile</i> )	Tas only	167 g/25 L water (1 measure pack per 50 L water)	DO NOT use in residential areas or publicly accessible commercial or industrial areas. To meet requirements to enter Tasmania, treat the base of plants and the surface of growing media. A white deposit will remain.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

## Veterinary chemical product

### Sample label 8: Chlorpyrifos 100 g/kg and diazinon 300 g/kg ear tag

<b>Signal heading:</b>	POISON KEEP OUT OF REACH OF CHILDREN FOR ANIMAL TREATMENT ONLY READ SAFETY DIRECTIONS BEFORE OPENING OR USING
<b>Product name:</b>	Y-TEX WARRIOR INSECTICIDAL CATTLE EAR TAGS
<b>Constituent statement:</b>	100 g/kg CHLORPYRIFOS 300 g/kg DIAZINON (anticholinesterase compounds)
<b>Statement of claims:</b>	One tag/head treatment for up to 12 weeks control of diazinon-susceptible Buffalo Flies* ( <i>Haematobia irritans exigua</i> ) and control of cattle lice ( <i>Bovicola bovis</i> , <i>Linognathus vituli</i> , <i>Haematopinus eurysternus</i> , <i>Solenoptes capillatus</i> ) on beef and dairy cattle (including lactating dairy cows). *Including pyrethroid-resistant strains. Resistance may develop to any chemical.
<b>Net contents:</b>	20 tags – each 15 g [300 g NET weight] 100 tags – each 15 g [1.5 kg NET weight] 500 tags – each 15 g [7.5 kg NET weight] 1000 tags – each 15 g [15.0 kg NET weight] 1300 tags – each 15 g [19.5 kg NET weight] It is illegal to sell individual tags separately.
<b>Directions for use:</b>	
<b>Restrains:</b>	
<b>Contraindications:</b>	This product is contraindicated for use in calves less than 3 months of age as ear damage may occur.
<b>Precautions:</b>	
<b>Dosage and administration</b>	[This section contains an attachment below]
<b>General directions:</b>	Y-TEX Warrior Insecticidal Cattle Ear Tags will give effective control of Buffalo Flies and cattle lice if used regularly on all animals in the group (over 3 months of age). The treatment regime with a periodic rotation program will reduce the potential for insecticide resistance to develop in Buffalo Flies. Remove tags prior to slaughter. NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.
<b>Withholding period:</b>	MEAT: Zero (0) days MILK: Zero (0) days
<b>Trade advice:</b>	EXPORT SLAUGHTER INTERVAL (ESI): DO NOT administer this ear tag product less than 28 days before slaughter for export. Before using this product, confirm the current ESI from Landmark Operations Limited on 1800 448 892 or the APVMA website ( <a href="http://apvma.gov.au/residues">apvma.gov.au/residues</a> ).
<b>Safety directions:</b>	Poisonous if swallowed. Repeated minor exposure may have a cumulative poisoning effect. May irritate the eyes. Avoid contact with eyes and skin. Do not open inner pouch until ready for use. Do not allow children to play with tags. When using the product, wear rubber gloves. After use and before eating and drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves.
<b>First aid instructions:</b>	If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (Phone Australia 131126) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
<b>First aid warning</b>	
<b>Additional User Safety:</b>	Additional information is listed in the Safety Data Sheet.

<b>Environmental statements:</b>	ENVIRONMENTAL PROTECTION: Use tags only on cattle. Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.
<b>Disposal:</b>	Deliver tags to an approved waste management facility. If an approved waste management facility is not available, dispose of tags in compliance with relevant local, state or territory government regulations. DO NOT burn tags.
<b>Storage:</b>	Store below 30°C (Room temperature). Store in original container in a dry, cool place. DO NOT store in direct sunlight.

**DOSAGE AND ADMINISTRATION:**

<b>Animal and Pest</b>	<b>State</b>	<b>Rate</b>	<b>Critical comments</b>
Cattle (including lactating dairy cattle) Buffalo Flies ( <i>Haematobia irritans exigua</i> ) Cattle Lice ( <i>Bovicola bovis</i> , <i>Linognathus vituli</i> , <i>Haematopinus eurysternus</i> , <i>Solenoptes capillatus</i> )	All states and territories	One tag per animal (1/head)	<b>For Buffalo Fly control:</b> Apply only when fly numbers exceed acceptable levels. <u>Removal of tags after 12 weeks will ensure that Buffalo Fly populations are not exposed to sublethal doses which may increase the chance of resistance.</u> Remove tags with tag removal knife. The level and duration of control may be reduced under high fly pressure. The whole herd is to be treated concurrently. <b>For Cattle Biting Lice control:</b> Apply tags in late Autumn or early Winter and <u>remove after 3 months.</u>

**Application:**

Apply tags with the Y-TEX UltraTagger® (Figures 1 to 4).

Figure 1 <drawing>

Seat male button firmly on pin, press down and give a slight twist.

Figure 2 <drawing>

Place female tag firmly under clip by depressing lever. Collar on tag must be pointing down. Tag and button are now ready for application.

Figure 3 <drawing>

Position male stud between the second and third radial cartilage on the front of the ear. Do not allow shaft of the male button to penetrate any cartilage rib or blood vessels or ear damage may result.

Figure 4 <drawing>

Squeeze handles of applicator together. When properly positioned, the tag should hang as shown.