



Potatoes
NEW ZEALAND

RESIDUE COMPLIANCE INFORMATION FOR POTATOES NEW ZEALAND

November 2017



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Important instructions

Green text – represents new additions, or new MRLs. These are highlighted so growers can see changes.

Red text – represents where an MRL has been revoked since the previous version. These are highlighted so growers can see changes.

Residue compliance information for Potatoes NZ

Potatoes New Zealand requested Market Access Solutions develop residue compliance information into an industrywide compliance guideline. This compliance information is intended to benefit both domestic and export growers by ensuring easily accessible (and current) MRL (maximum residue limit) and WHP (with-holding period) information is available. The compliance information will help reduce the possibility of residue non-compliance due to lack of information. These guidelines also indicate where WHP information is not known. Where this is the case, growers are encouraged to exercise caution around the use of these products (in terms of application timing etc.). It is the grower's duty to read and follow labels and controls and to meet the required domestic and export MRLs. Some NZ MRLs for older compounds have been set to cover "vegetables or root and tuber vegetables" in general and may no longer reflect current Good Agricultural Practice. For some compounds, potato label claims do not exist and efficacy, phytotoxicity/ plant safety etc. needs to be considered when using these products off label. Off label uses are not illegal unless registration conditions state otherwise and provided residues comply with the NZ MRL.

PHI & MRL information for NZ and MRLs (where available) for export countries is presented in the tabs at the bottom of this spreadsheet for insecticides, fungicides and herbicides. Codex MRL information is also presented in the tab below. MRL residue definitions in some countries for some pesticides also include metabolites. Residue monitoring for MRL-compliance should also take these metabolites into account.

Some products contain multiple active ingredients. It is the grower's responsibility to ensure that residues do not exceed the MRL for all active ingredients a product may contain. It is also the grower's responsibility to ensure they comply with any other use controls such as maximum application rates/frequency restrictions.

Distribution:

This report is intended for the limited audience of Potatoes New Zealand growers and industry members only and is not intended for wide distribution onto any external sites or in any public publications.

References:

ACVM label database: <https://eatsafe.nzfsa.govt.nz/web/public/acvm-register>

NZ MRLs are in the MRL Food notice which is regularly updated: www.foodsafety.govt.nz/elibrary/industry/register-list-mrl-agricultural-compounds.htm

Export MRLs <https://pxmrl.maf.govt.nz/Default.aspx>

EPA controls database: www.epa.govt.nz/search-databases/Pages/controls-search.aspx

This document should be read in conjunction with the NZGAP document 'Guideline for off label use of agrichemicals in Horticulture'.

Commentary on the Pacific

Below is some overall commentary on the regulatory systems in place in relation to agricultural chemical MRLs for five Pacific Island countries. Note: this information is not exhaustive as the legislation that operates in these countries is unclear in most instances.

Cook Islands

The Food Regulation 2014 applies to imported food products and there are provisions that cover general requirements such as food safety standards. The new regulations were unable to be located. The Cook Islands does not appear to have established MRLs. The Ministry of Agriculture's Sector Priorities appear to be to continue to explore ways to meet International Food Safety (Codex) Standards. www.agriculture.gov.ck/sector-priorities/

Fiji

The Food Safety Regulation (2009) provides the definition and some limits for pesticide residues. This specifies that where no standard has been defined, the relevant Codex Standard will apply - subject to any variations between the Regulations and Codex. The Act also specifies that if there is a conflict between Codex and the Fiji Standard, the Fiji Standard will prevail unless otherwise directed. www.commmcomm.gov.fj/pdfs/FoodSafetyRegulations2009.pdf

French Polynesia

Appears to recognise both Codex and EU Standards as well as their own standards. However, the legislation is in French and it is recommended that a translation is undertaken to confirm MRLs for produce exported to this country.

Samoa

Samoa has the Food Act 2015 (www.palemene.ws/new/wp-content/uploads/01.Acts/Acts%202015/Food-Act-2015-Eng.pdf). Codex work has been strengthened through the development of national food safety standards and enforcement of the Food Act. Samoa is working towards creating their own standards since the development of the Food Act. ftp://ftp.fao.org/codex/meetings/CCNASWP/CCNASWP12/CRDs/na12_crd01e.pdf

New Caledonia

In 2015 New Caledonia proposed changing their MRLs to align with EU MRLs. They sought advice on the potential cost of these amendments to assess the economic impact of a change to the MRL system from one that first applies EU MRLs (if above 0.01mg/kg), then Codex and then 'Country-of-origin' to one that just applies EU MRLs (including their default – 0.01mg/kg). As at November 2017, if there is no national MRL set in New Caledonia, imported food must comply with Codex MRLs. If there is neither a national, nor a Codex MRL in place, then imported food must comply with MRLs set by the EU. Changes are anticipated to New Caledonia's MRL legislation in mid-2018. The current proposal is to remove New Caledonia's specific MRLs and the ability to recognize Codex MRLs, meaning that imported food would need to comply solely with EU MRLs. This proposed change has not yet been finalised

Resistance Management

When using agricultural chemicals growers should be aware of managing resistance. Resistance in a pest, disease or weed population can develop from repeat use of an agricultural chemical. Resistance can become an issue because of high selection pressure exerted on a pest, disease or weed population over several seasons. This is generally the result of repeated use of the same or several agricultural chemicals with the same or similar mode of action.

In order to reduce the risk of resistance the majority of agricultural chemicals have a designated IRAC/FRAC/HRAC code. This coding system is based on the mode of action of the biochemical process through which the pesticide disrupts a pest, disease or weed's biology, generally resulting in the death of the pest, disease or weed.

These codes are used as part of a resistance management strategy. By using different modes of action growers can make decisions about rotating products to avoid or delay resistance developing. The mode of action of most agricultural chemicals is generally on the label.

For further information refer to:

<http://resistance.nzpps.org/>

www.irac-online.org

www.frac.info

www.hracglobal.com

Summary of Country Specific Information on MRL Setting and Import MRLs in relation to Codex acceptance

Codex standards are a global reference point for international food trade. They provide an agreed maximum limits for pesticide residues in food, some Countries do not recognise Codex. A high level summary of Country Specific MRL and Import MRL requirements is provided below.

MRL-setting	Australia	Indonesia	Japan	Korea		EU	New Caledonia	Singapore	Thailand	Vietnam
Competent Authority (Ministry/ Agency)	Food Safety Standards	Agriculture and Health (IAQA/ BPOM)	Health Labour & Welfare	Ministry of Food & Drug Safety		European Commission	Le Service d'Inspection Vétérinaire, Alimentaire et Phytosanitaire (SIVAP)	Agri-Food & Vet Authority (AVA)	Health and Agriculture (FDA/ACFS)	Health (VFA)
Codex MRLs recognised if no national MRL	No	Yes	No	Yes (for potatoes)		No	Yes	Yes	Yes	Yes
NZ MRL recognised if no national/Codex MRL	Yes – the Trans-Tasman Mutual Recognition Arrangement (TTMRA) allows MRLs established in NZ to be accepted by Australia, and vice-versa.	Yes	No	No		No	No	No	No	Yes
Default MRL if no national or Codex MRL	See above re TTMRA	Refer to NZ MRL (i.e. if no National MRL or Codex MRL either the NZ MRL or NZ default MRL will apply)	0.01 mg/kg	<0.01mg/kg		<0.01mg/kg	<0.01mg/kg	<LoQ (Residues must not be measurable an administrative level of 0.05mg/kg is usually applied)	<LoQ	Refer to NZ MRL (i.e. if no National MRL or Codex MRL either the NZ MRL or NZ default MRL applies)

Insecticides

Disclaimer: This document is not a legal instrument or advice. This information is solely based on domestic and internationally sourced data. While this information is based on the best data available, and has been collated with care, it is not possible to guarantee the accuracy of this information and is intended for reference only. For this reason, and because of variations in GAP, climatic conditions etc, Market Access Solutionz does not accept any responsibility or liability in respect of loss or damage arising from the use or misuse of information contained in this document. Growers must ensure that their use of agrichemicals is in accordance with NZ regulations including MRLs.

It is the responsibility of exporters to comply with importing country legal requirements. Market Access Solutionz strongly recommends growers verify this information through residue tests before harvest. In addition, MRLs can be changed or updated without notice. No guarantees can be given that export MRLs will not be exceeded in all instances. It is therefore strongly recommended that this information be used in conjunction with residue monitoring to try and avoid residue breaches.

Active Ingredient	Trade name/s (not all listed)	Agrichemical group	IRAC	Registered on potato?	NZ WHP (days)	Potato / crop group NZ MRL (mg/kg)	Australia	Codex		Indonesia	Japan	Korea	EU	New Caledonia	Singapore	Thailand	Vietnam
ABAMECTIN	Apostle, Avid, Verdex, Tripsol	Avermectin	6	Y	14	0.10	see NZ MRL	0.005 {135}		0.01	0.01 {48}	see Codex	0.01 (default)	0.01	see Codex	see Codex	0.01 {135}
ACRINATHRIN	Tripsol	Synthetic Pyrethroid	3A	Y	7	0.10	see NZ MRL	none set		see NZ MRL	none set	none set	0.05 / 0.02 From 22 Jan 2018	0.05	none set	none set	see NZ MRL
ALPHA-CYPERMETHRIN	Bestseller 100EC, Cypher, Dominex 100	Synthetic Pyrethroid	3A	N	unknown	0.10	see NZ MRL	0.01 {15}		see Codex	0.05 {15}	0.05 {15}	0.05{15}	0.05	see Codex	see Codex	0.01
AZADIRACTIN	Naturally Neem, Neem Azal-T/S	Biological Insecticide	n/a	N	not required	exempt	see NZ MRL	none set		see NZ MRL	exempt	none set	1.00	1.00	none set	none set	see NZ MRL
BACILLUS THURINGIENSIS	Bactercide WG, Biobit DF, Delfin, Dipel DF, Dipel ES, Bactur	Biological Insecticide	n/a	N	not required	exempt	exempt	none set		see NZ MRL	exempt	exempt	exempt (proposed)	none set	none set	none set	see NZ MRL
BEAUVERIA BASSIANA	Contego BB, Beaublast	Biological Insecticide	n/a	Y	not required	exempt	see NZ MRL	none set		see NZ MRL	none set	none set	exempt	none set	none set	none set	see NZ MRL
BIFENTHRIN	Talstar 100 EC, Talstar 80SC, Venom	Synthetic Pyrethroid	3A	N	unknown	0.10	0.03 {141}	0.05 {7}		see Codex	0.05	0.05	0.05{7}	see Codex	see Codex	0.50 {30} / {7}	0.05
CARBARYL	Sevin Flo	Carbamate	1A	N	unknown	0.10	0.10	none set		see NZ MRL	0.10	0.20 / 0.50 proposed	not approved	none set	0.20	0.20	revoked
CHLORANTRANILIPROLE	Dupont Coragen Insecticide, Durivo	Anthranilic diamide	28	Y – Some products. Refer to label.	14	0.01	0.05 / 0.06 proposed	0.02		see Codex	0.02	0.05	0.02	0.02	see Codex	see Codex	0.02
CHLOROPICRIN	Telone C-35 Soil fumigant, Tri-form 60	Chloropicrin (+ 1,3-dichloropropene)	8	Generic soil claim	not applicable, bare soil use	0.10	see NZ MRL	none set		see NZ MRL	none set	none set	0.005	see EU	none set	none set	see NZ MRL
CHLORPYRIFOS	Chlorfos 480, Chlor-P 480EC, Lorsban 50 EC, Pylchlorex 48EC, Pyninex Insecticide, Rampage, Suscon Green, Toppel, Cobalt Advanced	Organophosphate	1B	Y – Some products. Refer to label.	unknown or 14 days depending on product. Check label.	0.01	0.05	2.00		2.00	0.05	see Codex	0.01 (default)	0.05	0.05	see Codex	2.00
CLOFENTEZINE	Apollo Miticide	Tetrazine	10	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	0.02 / 0.01 proposed	none set	0.02	see EU	none set	none set	see NZ MRL
CYANTRANILIPROLE	DuPont Benevia and Exirel	Anthranilic diamide	28	Y	14	0.01	0.05	0.05		see Codex	0.20	0.05	0.05	see Codex	see Codex	see Codex	0.05
DELTAMETHRIN	Ballistic Insecticide, Decis Forte, Deltaphar 25EC, Proteus	Synthetic Pyrethroid	3	Y	14	0.01 {7}	0.05 {141}	0.01 {7}		0.01	0.05 (see notes for definition)	0.01 {7}	0.30	0.20	0.01	0.05 {30} / {7}	0.01
DICHLORVOS	Divap, Nuvos	Organophosphate	1B	N	unknown	2.00 / 0.01 proposed March 2017	0.50 May be revoked	none set		see NZ MRL	0.10 (see notes for definition)	0.05 {30}	not approved	0.01	0.50	none set	see NZ MRL
DIMETHOATE	Dimezyl 40EC, Rogor E, Danadim progress	Organophosphate	1B	Y	14	2.00 {19}	0.10 {19}	0.05		0.05	1.00	0.05	0.02 {19} / 0.01 From Jan 2018	0.10	0.05 {19}	see Codex	0.05
ESFENVALERATE	Sumi-alpha	Synthetic Pyrethroid	3	N – except for establishing plants	unknown	0.10	0.05 {141} / {63} Proposed	none set		see NZ MRL	0.05 {63}	0.05 {63}	0.02 {63}	0.05	none set	0.05 {63}	revoked
FATTY ACIDS (K SALTS)	Mite Killer, Protector hml, Clenza	Fatty acids	n/a	N	not required	exempt	exempt	none set		see NZ MRL	none set	none set	Not required (C7-C20)	see EU	none set	none set	see NZ MRL

FENAMIPHOS	Nemacur, Canyon, Fenafos 400, Nematak 400EC	Organophosphate	1B	Y	90	0.20 {21}	0.20 May be revoked	none set		see NZ MRL	0.10	0.20 {21}	0.02 {21}	see EU	0.10	none set	revoked
FIPRONIL	Albatross 200 SC, Ascend, Kalas, Recoil	Phenyl pyrazole	2	N	unknown	0.10	0.01 {28}	0.02		0.02	0.01 / 0.02 proposed	0.01	not approved	0.01	see Codex	0.005 {30}	0.02
FORMETANATE	Dicarzol 500	Carbamate	1A	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	none set	none set	0.01 (default)	0.05	none set	none set	see NZ MRL
IMIDACLOPRID	Acclaim, Confidor, Gaucho, Gaucho Clear, Kohinor 350 Insecticide, Nuprid 350SC, Nuprid 600 ST, Sombrero 600 Seed Dressing	Chloronicotinyl	4	Y (seed tuber only)	not required	0.02 {25}	0.30 {25}	0.50 {25}		see Codex	0.50 / 0.40 proposed	0.30	0.50	0.50	see Codex	see Codex	0.50 {25}
IRON PHOSPHATE	Neudorff Slug & Snail Bait	Inorganic	n/a	N	unknown	exempt	see NZ MRL	none set		see NZ MRL	none set	none set	0.01 (default)	none set	none set	none set	see NZ MRL
IRON SODIUM EDTA	Multicrop Multiguard Snail and Slug Killer, Quash, Quash Slug and Snail Stoppa	Inorganic	n/a	N	unknown	exempt	see NZ MRL	none set		see NZ MRL	none set	none set	0.01 (default)	none set	none set	none set	see NZ MRL
LAMBDA-CYHALOTHRIN	Cyhell, Dovetail, Halex, Karate Zeon, Cobalt Advanced	Synthetic Pyrethroid	3	Y	14	0.01	0.01 {23}	0.01 {23}		see NZ MRL	0.04 {23}	0.02 {23}	0.02	0.02	see Codex	0.05 {30} / {7}	0.01 {23}
LUFENURON	Nuron	Benzoylurea	15	Y	42	0.01	see NZ MRL	0.01		see Codex	0.02	see Codex	0.05 / 0.01 Proposed	see Codex	see Codex	see Codex	see Codex
METALDEHYDE	Donaghys Slugicide, Endure, Just Slug and Snail Bait, Metarex, Slug Slam, Slugout	Aldehyde	n/a	N	unknown	0.10	1.00	none set		see NZ MRL	none set	0.05 {30}	0.15	0.15	none set	none set	see NZ MRL
METHAMIDOPHOS	Metafort 60 SL, Methafos 600	Organophosphate	1B	Y	14	0.05 / 0.01 proposed	0.25	0.05		0.05	0.25 (see notes for definition)	0.05	not approved	see Codex	0.10	nil detect	0.05
METHIOCARB	Baysol Snail & Slug Bait, Mesuroi	Carbamate	1A	N	unknown	0.10	0.10	0.05		0.05	0.05 {21}	see Codex	0.10 {76}	0.10	0.10	see Codex	0.05
METHOMYL	Orion Methomyl, Lannate L	Carbamate	1A	N	unknown	0.10	1.00	0.02 {35}		0.02	0.30 {35}	0.10 {35}	0.01 (default)	see Codex	0.10	0.02 {35}	0.02
MINERAL AND NON-MINERAL OILS	Caltex D-C Tron, Excel Oil, Excel Spring oil	n/a	n/a	N	unknown	0.10	GRAS	none set		see NZ MRL	exempt	exempt	0.01 Includes paraffin oil	none set	none set	none set	see NZ MRL
NEEM SEED KERNEL EXTRACT	NeemAQ	n/a	n/a	N	not required	exempt	see NZ MRL	none set		see NZ MRL	none set	none set	0.01 (default)	none set	none set	none set	see NZ MRL
PERMETHRIN	Ambush, Attack	Synthetic Pyrethroid	3	N	unknown	0.10	0.05 {7}	0.05		0.05	0.05 {7}	0.05 {7}	0.05	see Codex	0.05	0.10 {30} / {7}	0.05 {7}
PIRIMICARB	Aphidex WG, Pirimisect, Pirimor 50, Piritek, Prohive, Dovetail, Mavrik Duo	Carbamate	1A	Y	Nil to 14 days depending on product. Check label.	0.10	1.00 {31}	0.05		see Codex	0.05	0.05	0.05	0.20	0.05	see Codex	0.05
PIRIMIPHOS-METHYL	Actellic, Attack, Silo, Ambush	Organophosphate	1B	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	0.05	0.05	0.01 (default)	none set	0.05	none set	0.05 to be revoked
PYMETROZINE	Chess WG, Endgame, Bravium	Pyridine azomethine	9	Y	7	0.02	0.02	none set		see NZ MRL	0.10	0.20	0.02	0.02	none set	none set	see NZ MRL
PYRETHRINS	Greenseals Pyrethrum, Pestigas, Pyganic	Pyrethroid	3	Y	1	1.00	1.00	0.05		see Codex	1.00	1.00 {29}	1.00	1.00	1.00	see Codex	0.05
SPINETORAM	Sparta, Uphold	Spinosyns	5	Y	7	0.02 {62}	0.02 {62}	none set		see NZ MRL	0.10	0.05	0.05	see EU	none set	none set	see NZ MRL
SPINOSAD	Entrust Naturalyte Insect Control, Success *Naturalyte*	Spinosyns	5	Y	7	0.01 {60}	0.02 {60}	0.01 {60}		0.01	0.02 {60}	0.10 {60}	0.02 {60}	0.02	see Codex	see Codex	0.01 {60}
SPIROMESIFEN	Oberon, Optimate	Tetronic and Tetramic acid derivatives	23	Y	7	0.10	see NZ MRL	0.02 {90}		see Codex	0.02 {90}	0.05 {30}	0.02	0.02	see Codex	see Codex	see Codex
SPIROTETRAMAT	Movento, Movento OD	Tetronic and Tetramic acid derivatives	23	Y	35	0.50 {90}	5.00 {90}	0.80 {90}		0.80	1.00 {90}	0.60 {90}	0.80 {71}	see Codex	see Codex	see Codex	0.80 {90}
SULFOXAFLOR	Transform	Sulfoximine	4C	Y	7	0.05	0.01	0.03		see Codex	0.05 proposed	0.05	0.03 {7}	see Codex	see Codex	see Codex	0.03

TAU-FLUVALINATE	Mavrik Aquaflor Insecticide, Mavrik Duo	Synthetic Pyrethroid	3	Y	7	0.01 proposed Mar 17	see NZ MRL	none set		see NZ MRL	0.01 {38}	0.01 {7}	0.01 (default)	0.01	none set	none set	see NZ MRL
TERBUFOS	Counter 20 G	Organophosphate	1B	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	0.005	0.01 {81}	not approved	none set	none set	none set	see NZ MRL
THIACLOPRID	Topstar, Proteus	Chloronicotinyl	4	Y	14	0.02	0.10 {141} proposed	0.02		0.02	0.10	0.10	0.02	see Codex	see Codex	see Codex	0.02
THIAMETHOXAM	Actara, Rockot	Neonicotinoid	4	Y	90 days for registered product. Check label.	0.02	0.70	0.30		see Codex	0.30	0.10	0.07	see Codex	see Codex	see Codex	0.30
THIODICARB	Larvin SC, Nufarm Thiodicarb, Thiokote 375 FS	Carbamate	1A	N	unknown	0.10	0.10 {110}	0.02 {35}		see Codex	0.30 {35}	0.10 {35}	not approved	see Codex	see Codex	see Codex	see Codex
VERTICILLIUM LECANII	eNtokill, eNtoblast	Biological Insecticide	n/a	Y	not required	exempt	see NZ MRL	none set		see NZ MRL	none set	none set	none set	none set	none set	none set	see NZ MRL

Key & Notes

Key	
None set	Means that no MRLs have been set and detectable residues should not be present (nil detect)
Unknown	Use is off label and as such no WHP has been assessed
Not required	WHP is not required as the active is exempt from MRLs, when used according to the label.
Exempt	Active is exempt from the requirements to set an MRL
GRAS	Generally Recognised As Safe
Not applicable	When used as directed on the label (eg pre emergence) a WHP is not applicable as use pattern is only one application - therefore no WHP is not necessary
See Codex	"See Codex" means that no national MRL exists, but the national legislation recognises Codex MRLs for imported potatoes. See Codex tab for more information
See EU	"See EU" If there is no national MRL set in New Caledonia, imported food must comply with Codex MRLs. If there is neither a national, nor a Codex MRL in place, then imported food must comply with MRLs set by the EU. Changes are anticipated to New Caledonia's MRL legislation in mid-2018.
IRAC	Insecticide Resistance Action Committee is a specialist technical group of the industry association CropLife International who provide insecticide resistance management guidelines. Further information can be found here: www.irac-online.org/modes-of-action/

Notes: The below residue definition notes are taken directly from the MPI website, except for specified Japanese definitions

7	Sum of isomers or enantiomers or diastereomers
15	As cypermethrin (sum of isomers)
19	Sum of dimethoate and omethoate, expressed as dimethoate
21	Sum of parent plus -sulphoxide and -sulphone metabolites, as parent
23	As cyhalothrin (sum of isomers)
25	Sum of parent plus metabolites containing 6-chloropyridinyl (chloropicolyl) moiety
28	Also includes specified metabolites, total expressed as parent compound
29	Based on generic "Other" vegetable MRLs
30	MRL is for "Other Ag Products" , applying if no Codex MRL or extrapolation is not applicable
31	Sum of parent plus -desmethyl and -desmethylformamido metabolites
35	Sum of methomyl and thiodicarb, expressed as methomyl
38	As fluvalinate (sum of isomers)
48	Sum of parent B1a, B1b components and their 8,9-Z isomers
60	Sum of spinosyn A and spinosyn D
62	Sum of spinosyn J and spinosyn L
63	As fenvalerate (sum of isomers), any ratio of RR, SS, RS & SR isomers
71	Includes the -enol, -enol glucoside, -ketoaldehyde, -monohydroxy metabolites
72	Sum of parent and -oxime metabolite
81	Sum of parent, its oxygen analog and their -sulfoxides and/or -sulphones, as parent
90	Sum of parent and its -enol metabolite
110	Sum of thiodicarb and methomyl, expressed as thiodicarb
135	As avermectin B1a

141	MRL is for 'all other food of plant origin' – to accommodate low level inadvertent residues
Japan Deltamethrin	MRLs for deltamethrin and tralomethrin are established for the sum of residues of deltamethrin and tralomethrin.
Japan Dichlorvos	MRLs for dichlorvos and naled are established for the sum of residues of dichlorvos and naled calculated as dichlorvos
Japan Methamidophos	MRLs for methamidophos include residues of acephate-derived methamidophos.

Fungicides

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AMETOCTRADIN	Zampro	Triazolo-pyrimidylamine	45	Y	14	0.01	0.05	0.05		0.05	0.05	0.05	0.05	see Codex	see Codex	see Codex	0.05
AZOXYSTROBIN	AGPRO Azoxystrobin 250 SC, Atlantis Flo, Inspire, Orbit, Roxy, Salute, Amistar WG, Mirador 250 SC, Tazer, Avior 250 SC, Amistar Opti	QoL	11	Y	14	0.02 {97}	7.00	7.00		see Codex	1.00	0.10	7.00	1.00	see Codex	see Codex	7.00
BACILLUS SUBTILIS	Bio Sol B Sub	Microbial	44	Y - Some products. Check label.	not required	exempt	exempt	none set		see NZ MRL	none set	exempt	not required	see EU	none set	none set	see NZ MRL
BOSCALID	Bosson, Boscacoool, Unistar, Pristine, Essence, Energy	SDHI	7	N	unknown	0.50	1.00	2.00		see Codex	2.00	see Codex	2.00	2.00	see Codex	see Codex	2.00
BUPIRIMATE	Nimrod Ew Fungicide, Neptune Encaps, Neptune, Evito	Pyrimidine	8	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	none set	none set	0.05	0.05	none set	none set	see NZ MRL
CAPTAN	Crop Care Captan 900 Wg, Fruited Captan 80WG, Merpan, Orthocide 80 Wdg, Capetec	Cyclic imide	M4	Y (seed tuber only)	not required	10.00	0.10 {141}	0.05		0.05	0.05	0.05	0.03 {134}	see Codex	20.00	see Codex	0.05
CARBENDAZIM	Agpro Carbendazim, Chief, Carbenz, Goldazim 500 Sc, MBC 500 Flo, MBC 800 Wdg, Mycotak, Prolific, Protek, Sporeguard, X-Spore, Orion Carben 500Sc	Benzimidazole	1	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	0.60 {101}	0.01 {30}	0.10	see EU	3.00	0.10 {30} / {101}	revoked
CHLOROTHALONIL	Agpro Chlorothalonil 720, Amistar Opti, Balear 720 Sc, Barrack Betterstick, Barrachlor 720, Defendo 720SC, Blizzard, Bravo Weatherstik, Cavalry, Cannon, Cobra, Folio Gold, Taratek 5F, Thaloniil, Cleaner	Chloronitrile	M5	Y	7 to 14 days depending on product. Check label.	0.10	0.10	0.30		see Codex	0.20	0.10	0.01 (default)	0.10	0.10	0.20	0.30
COPPER HYDROXIDE	Agpro Cupric Hydroxide 350 Sc, Blue Shield Df, Champ Dp, Champ Flo, Kocide Opti, HORTCARE Copper Hydroxide 300, Mankocide DF	Inorganic copper	M1	Y	14 days depending on product. Check label.	exempt	exempt {8}	none set		see NZ MRL	exempt	exempt	5.00	5.00	30.00	none set	see NZ MRL
COPPER OXIDE	Nordox 75 Wg, Ag Copp 75	Inorganic copper	M1	Y	1	exempt	see NZ MRL	none set		see NZ MRL	none set	none set	5.00	see EU	none set	none set	see NZ MRL

COPPER OXYCHLORIDE	Agpro Copper Oxychloride 800 Wp, Fruited Copper Oxychloride, Oxi-Cup	Inorganic copper	M1	Y	not required	exempt	exempt {8}	none set		see NZ MRL	exempt	exempt	5.00	5.00	30.00	none set	see NZ MRL
CYAZOFAMID	Ranman	Cyanoimidazole	21	Y	7	0.01	see NZ MRL	0.01		see Codex	0.05	0.10	0.01 (default)	0.01	none set	see Codex	see Codex
CYMOXANIL	Concord 300Sc, Curfew, Dupont Curzate Fungicide, Nautile, Shotgun	Cyanoacetamide-oxime	27	Y	14	0.05	see NZ MRL	none set		see NZ MRL	0.20	0.10	0.05	0.05	none set	none set	see NZ MRL
CYPRODINIL	Switch, Punch up, Capella Fungicide, Mirano, Evoke, King Kong	Anilino-pyrimidine	9	N	unknown	0.10	0.05 {141} proposed	none set		see NZ MRL	none set	none set	0.02	0.05	none set	none set	see NZ MRL
DICHLOROPROPENE	Telone C-35 Soil Fumigant, Telone Soil Fumigant, Tri-Form 60, Tri-Form 1,3-D				generic soil claim	not applicable – bare soil use	0.01 {7}	GRAS	none set	see NZ MRL	0.01	none set	not approved	none set	none set	none set	see NZ MRL
DIFENOCONAZOLE	Cannon, Difference 250EC, Divino, Dyfen, Glacier, Score 250 Ec, Emerald 10Wg, Difenol 250 Ec, Score 10 WG, Tallos	Triazole	3	Y	14	0.01	0.02 / 4.00 proposed	4.00		0.02	0.10	4.00	0.10	0.10	see Codex	see Codex	4.00
DIMETHOMORPH	Acrobat Mz 690, Cobra, Sovrin Flo, Sphinx Fungicide, Zampro	Cinnamic acid amide	40	Y	14	0.01	0.05 {7}	0.05 {7}		0.05	0.10 {7}	0.10 {7}	0.05 {7}	0.50	see Codex	see Codex	0.05
FENAMIDONE	Reason	Imidazolinone	11	Y	14	0.05 {20}	see NZ MRL	0.02		see Codex	0.02	0.10	0.01 (default)	see Codex	see Codex	see Codex	0.02
FLUAZINAM	Curalan, Gem Fungicide, Nando, Ohayo, Pinnacle, Shirlan, Nexus	2,6-dinitro-aniline	29	Y	14	0.02	0.01	none set		see NZ MRL	0.10	0.05	0.02	see EU	none set	none set	see NZ MRL
FLUDIOXONIL	Maxim, Schonil, Fludio, Switch, Nexus, Punch up, Capella Fungicide	Phenylpyrrole	12	Y (seed tuber only) depending on product. Check label.	not required	0.10	0.02 / 5.00 proposed	5.00		0.02	0.02	0.02	5.00	1.00	see Codex	see Codex	5.00
FLUOPICOLIDE	Infinito	Benzamide Pyridine	43	Y	14	0.05	0.05	none set		see NZ MRL	0.05	0.10	0.03	0.03	none set	none set	see NZ MRL
FLUSULFAMIDE	Nebijin 5Sc	Sulfonaniilide	36	Y (seed tuber only)	not required	0.02	see NZ MRL	none set		see NZ MRL	0.05	none set	not approved	none set	none set	none set	see NZ MRL
FOSETYL-ALUMINIUM	Fostonic 80WP, Aliette WG, Root Protect Aliette	Phosphonates	33	N	unknown	exempt (as H3PO3)	see NZ MRL	none set		see NZ MRL	35.00 {26}	20.00	30.00 {131}	30.00	none set	none set	see NZ MRL
IMAZALIL	Monceren Im Ds	Imidazole	3	Y (seed tuber only) depending on product. Check label.	not required	0.10	5.00	5.00		5.00	5.00	5.00	3.00	3.00	see Codex	see Codex	5.00
IPRODIONE	Defence 500, Ippon 500Sc, Rapid 500, Rovral Aquaflor, Rovral Wp	Dicarboximide	2	N	unknown	0.10	0.05	none set		see NZ MRL	0.50 (see notes for definition)	0.50	0.05	0.05	none set	none set	see NZ MRL
MANCOZEB	Dithane Rainshield Neo Tec Fungicide, Kotek, Max Mz, Ridomil Gold Mz Wg, Supermanz, Unizeb Df, Manex II, Manzate Evolution Fungicide, Nautile, Acrobat Mz 690, Promanz, Penncozeb Df, Manco 75 WG, Shotgun, Mankocide Df	Dithiocarbamate	M3	Y	7 to 14 days depending on product. Check label.	7.00 {17}	1.00 {17}	0.20 {17}		0.20 {17}	0.20 {17}	0.30 {18}	0.30 {17}	0.30 {17}/0.30	0.10{17}	0.20 {17}	0.20 {17}
MANDIPROPAMID	Revus	Carboxylic Acid Amides	40	Y	14	0.01	see NZ MRL	0.01		0.01	0.02	0.10	0.01 (default)	0.01	see Codex	see Codex	0.01

METALAXYL	Helios, Max Mz, Phytospear, Picasa, Speartek, Ventura, Shotgun	Phenylamide	4	Y – Some products. Check label.	14	0.05 {7}	0.10	0.05		0.05	0.30 {75}	0.05	0.05 {75} / 0.02 {75} From 22 Jan 2018	see Codex	0.10	0.05	0.05
METALAXYL-M	Ridomil Gold Mz Wg, Folio Gold	Phenylamide	4	Y – Some products. Check label.	14	0.05	0.10 {75}	none set		0.05 {75}	0.30 {75}	0.05 {75}	0.05 {75} / 0.02 {75} From 22 Jan 2018	0.05	none set	0.05 {75}	0.05 {75}
METAM SODIUM	Fumasol	Thiocarbamate	42	generic soil claim	not applicable – bare soil use	0.10	1.00 {17}	none set		see NZ MRL	0.20 from January 2018	none set	0.02 {24}	see EU	none set	none set	see NZ MRL
METRAFENONE	Vivando	Benzophenone	U8	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	none set	0.05 {30}	0.01 (default)	none set	none set	none set	see NZ MRL
PENCYCURON	Monceren IM DS, Monceren DS, Monceren FS, Cycure	Phenylurea	20	Y (seed tuber only) depending on product. Check label.	not required	0.10	0.05	none set		see NZ MRL	0.05	0.10 {30}	0.10	0.10	none set	none set	see NZ MRL
PHOSPHOROUS ACID/ INORGANIC PHOSPHOROUS	Agri-Fos 600, Foschek, Hi Pk, Phosgard, Stemshot Av-1, Tree-Doc 400SI	Phosphonates	33	N	unknown	exempt	100.00	none set		see NZ MRL	35.00 {26}	none set	30.00 {131}	see EU	none set	none set	see NZ MRL
PROCYMIDONE	Sumislex 500Sc, Procyd, Agpro Procymidone	Dicarboximide	2	Y	14	0.10	0.10	none set		see NZ MRL	0.50	0.10	not approved	none set	none set	none set	see NZ MRL
PROPAMOCARB	Infinito	Carbamate	28	Y	14	0.10	0.05	0.30		0.30	0.30 (see notes for definition)	0.30	0.30	0.50	see Codex	see Codex	0.30
PROPINEB	Antracol	Dithiocarbamate	M3	Y	14	0.10	1.00 {17}	0.20 {17}		0.20 {17}	0.20 {17}	0.30 {18}	0.30 {17} / 0.20 {11}	0.30 {17}	see Codex	0.20 {17}	0.20 {17}
PYRACLOSTROBIN	Comet, Pristine, Pyrax, Essence, Energy	Methoxy-carbamates	11	N	unknown	0.10	0.50	0.02		0.02	0.02	0.50	0.02	0.02	see Codex	see Codex	0.02
SULPHUR	Agpro Sulphur, Bio Blast Lime Sulphur, Fungisul 80 Wp Zolfindustria, Kumulus Df, Microthiol Disperss, Nimbus, Organic Super Sulphur, Sulclean Df, Thiovit Jet	Inorganic sulphur compound	M2	Y – generic vegetable claim. Check label.	not required	exempt	exempt	none set		see NZ MRL	exempt	exempt	not required	50.00	none set	none set	see NZ MRL
THIABENDAZOLE	Tecto Sc, T-Kote	Benzimidazole	1	Y	not applicable – post harvest use	10.00	5.00	15.00		15.00	10.00	5.00	15.00 / 0.04 From 22 Jan 2018	see Codex	5.00	0.10 {30}	15.00
THIOPHANATE-METHYL	Taratec 5F	Benzimidazole	1	Y – Some products. Check label.	14	0.10	see NZ MRL	none set		see NZ MRL	0.60 {101}	0.01 {12} unless {30}	0.10	0.10	none set	none set	see NZ MRL
TOLCLOFOS-METHYL	Rizolex	Aromatic hydrocarbon	14	Y (seed tuber only)	not required	0.10	0.10	0.20		0.20	1.00	0.05	0.20	see Codex	see Codex	see Codex	0.20

Key & Notes

Key	
None set	Means that no MRLs have been set and detectable residues should not be present (nil detect)
Unknown	Use is off label and as such, no WHP has been assessed
Not required	WHP is not required as the active is exempt from MRLs, when used according to the label.
Exempt	Active is exempt from the requirements to set an MRL
GRAS	Generally recognised as safe
Not applicable	When used as directed on the label (eg pre emergence) a WHP is not applicable as use pattern is only one application - therefore no WHP is not necessary
See Codex	"See Codex" means that no national MRL exists, but the national legislation recognises Codex MRLs for imported potatoes see Codex tab for more information
See EU	"See EU" If there is no national MRL set in New Caledonia, imported food must comply with Codex MRLs. If there is neither a national, nor a Codex MRL in place, then imported food must comply with MRLs set by the EU. Changes are anticipated to New Caledonia's MRL legislation in mid-2018.
FRAC	Fungicide Resistance Action Committee is a specialist technical group of CropLife who provide fungicide resistance management guidelines to prolong the effectiveness of "at risk" fungicides and to limit crop losses should resistance occur: www.frac.info/about-frac/frac-guidelines

Notes: The below residue definition notes are taken directly from the MPI website except for specified Japanese definitions

7	Sum of isomers or enantiomers or diastereomers
8	Expressed as inorganic copper
11	Expressed as the respective parent compound (thiram, ziram or for propineb, as propylenediamine)
12	Expressed as MBC (Carbendazim)
17	As carbon disulphide, for ethylenebis- dimethyl- & propylenebis-dithiocarbamates
18	As carbon disulphide, for ethylenebis- or dimethyl-dithiocarbamates as relevant
20	Sum of parent plus -desmethylthio metabolites, as parent
24	Expressed as methylisothiocyanate (from dazomet or metam)
26	Includes fosetyl-aluminium and phosphorous acid
30	MRL is for "Other Ag Products" , applying if no Codex MRL or extrapolation is not applicable
55	Sum of parent plus M2 (-dione) metabolite
75	Metalaxyl, sum of isomers, including metalaxyl-M (mefenoxam)
97	Sum of parent plus its Z-isomer
101	Sum of benomyl, carbendazim & thiophanate methyl - as carbendazim
131	Sum of fosetyl, phosphonic acid and its salts (phosphonates), expressed as fosetyl
132	As propylenediamine (PDA), expressed as propineb
134	Sum of captan and THPI, expressed as captan
141	MRL is for 'all other food of plant origin' - to accommodate low level inadvertent residues
Japan Iprodione	MRLs for iprodione are established for the sum of residues of iprodione and N-(3,5-dichlorophenyl)-3-isopropyl-2,4-dioximidazole-1-carboxamide
Japan Propamocarb	MRLs of propamocarb include residues of propamocarb and propamocarb hydrochloride

Japan Thiophanate-Methyl

MRLs for carbendazim, benomyl, thiophanate, and thiophanate-methyl are established for the sum of residues of carbendazim and each of benomyl, thiophanate, thiophanate-methyl, which are individually calculated as carbendazim.

Herbicides

Disclaimer: This document is not a legal instrument or advice. This information is solely based on domestic and internationally sourced data. While this information is based on the best data available, and has been collated with care, it is not possible to guarantee the accuracy of this information and is intended for reference only. For this reason, and because of variations in GAP, climatic conditions etc, Market Access Solutionz does not accept any responsibility or liability in respect of loss or damage arising from the use or misuse of information contained in this document.

Growers must ensure that their use of agrichemicals is in accordance with NZ regulations including MRLs. It is the responsibility of exporters to comply with importing country legal requirements. Market Access Solutionz strongly recommends growers verify this information through residue tests before harvest. In addition, MRLs can be changed or updated without notice. No guarantees can be given that export MRLs will not be exceeded in all instances. It is therefore strongly recommended that this information be used in conjunction with residue monitoring to try and avoid residue breaches.

Active ingredient	Trade name examples	Agrichemical group		Registered on potato?	NZ WHP (days) / growth stage applied	Potato / crop group NZ MRL (mg/kg)	Australia	Codex		Indonesia	Japan	Korea	EU	New Caledonia	Singapore	Thailand	Vietnam
1,4 - DIMETHYLNAPHTHALENE	1,4 Ship, 1,4 Sight	Alkyl-substituted naphthalene		Y	post harvest	exempt for sprout inhibition in stored potatoes	see NZ MRL	none set		see NZ MRL	none set	none set	15.00	see EU	none set	none set	see NZ MRL
AMITROLE	Agpro Activated Amitrole, Lonza Activated Amitrole	Triazole	F3	N	unknown	0.10	0.05	none set		see NZ MRL	none set	none set	not approved	none set	none set	Nil detect	see NZ MRL
CARFENTRAZONE-ETHYL	Shark, Hammer, Hammer Force, Nail EC, Torus	Triazolinones	E	Y – Seed potatoes	14	0.10	0.05	none set		see NZ MRL	0.10	none set	0.01 (default)	see EU	none set	none set	see NZ MRL
CHLORPROPHAM	Chloro IPC, Zelam CIPC, Sprout Shield, Alliacine, Agri IPC, Aceto Sprout Nip Solid	Carbamates	K2	Y	post harvest	50.00	30.00	30.00		30.00	30.00	50.00	10.00 {16}	10.00	50.00	see Codex	30.00
CLETHODIM	Sequence, Vega, Arrow, Centurion Xtra, Cleo, Grasidim, Sierra 360EC	Cyclohexanediones 'DIMs'	A	Y – Some products. Refer to label.	35 days to 5 weeks depending on product. Check label.	0.10	1.00 {64}/ {104}	0.50 {104}		0.50	0.20 {21} / 1.00 proposed	0.20 {104} / 0.05 proposed	0.50 {64}	1.00	see Codex	see Codex	0.50 {104}
CLOMAZONE	Magister CS, Solvo, Director CS	Isoxazolidinones	F3	Y	pre emergence	0.05	0.05	none set		see NZ MRL	0.05	none set	0.01 (default)	0.05	none set	none set	see NZ MRL
CYANAZINE	Bruno, Cytec 900WG, Bladex 50 SC, Bladex 90 WG	Triazines	C1	Y	at emergence	0.01	0.02	none set		see NZ MRL	0.10	none set	not approved	none set	none set	none set	see NZ MRL
DIQUAT	Dy-Quat, Desiquat, Reglone, Preeglone, Diquat, Speedy	Bipyridyliums	D	Y – Some products	14 days or pre emergence depending on product. Check label.	0.05	0.20	0.10		0.05	0.05	0.02	0.10	0.05	0.20	see Codex	revoked
DIURON	Fenican, Pirate, Karmex DF, Karmex 900, Agpro Diuron	Ureas	C2	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	0.05	1.00	0.01 (default)	0.10	none set	none set	see NZ MRL
ENDOTHAL	Desiccate II	Organoarsenicals	Z	Y	when tubers reach optimum size / at senescence	0.05	0.10	none set		see NZ MRL	0.10	none set	not approved	none set	none set	none set	see NZ MRL
FLUAZIFOP-P-BUTYL	Fusilade Forte	Aryloxyphenoxy-propionates 'FOPs'	A	Y	35	0.10	0.05 {102}	0.60 pending CAC adoption		see NZ MRL	0.10 (see notes for definition)	0.05	0.15 {120}	0.10	see Codex	see Codex	see Codex
GLUFOSINATE-AMMONIUM	Buster, Agpro Glufosinate 200, Vixen, Nirvana, Bash, Fiestar Non-Selective Herbicide, Bastnate	Phosphinic acids	H	stale seedbed preparation	28	0.10	see NZ MRL	0.10 {124}		0.10	0.20{124}	0.05 {124}	0.30 {124}	0.30	see Codex	see Codex	0.10 {124}

GLYPHOSATE	Glyfo Super, Country Mile Glyphosate, Polaris, Titan, Grunt, Ken-Up, All out, Rid gone, Rid Over, Rid Out, Dryphosate, Weedmaster, Lion, Turbo, Smart Glyphosate, Terminate, Firstrate, Roundup Transorb X, Samurai, Tag, Tag G2, DEAL 360, G-Force Max, Glymax, Westminster G360, Synergy Glyphosate, Touchdown IQ, Folar	Glycines	G	N	unknown	0.10	0.10 {94}	none set		see NZ MRL	0.20	none set	0.50	see EU	none set	none set	see NZ MRL
LINURON	Linex flo, Linuron Flowable, Afalon	Ureas	C2	Y	pre emergence	0.10	0.05 {16}	none set		see NZ MRL	0.10	0.05	0.05	0.05	none set	none set	see NZ MRL
MALEIC HYDRAZIDE	Royal MH 30 Xtra, Super Sprout Stop			Y	1 week after blossom fall	50.00 {85}	50.00	50.00		50.00	50.00	50.00	50.00 / 60.00 Proposed (S-11743/2017)	50.00	50.00	see Codex	50.00
METHABENZTHIAZURON	Tribunil	Ureas	C2	Y	pre emergence	0.05	see NZ MRL	none set		see NZ MRL	0.10	none set	not approved	none set	none set	none set	see NZ MRL
METRIBUZIN	Sencor SC, Jazz, Metriphar, Metribuzin 750 WG,	Triazinones	C1	Y	at emergence	0.10	0.05	none set		see NZ MRL	0.60 (see notes for definition)	0.05	0.10	0.10	none set	none set	see NZ MRL
OXYFLUORFEN	Oxyfluorfen 250 SC, Oxy 500 SC, Vixen, Tag G2, Oxy 250 SC, Fenox 240EC, Galigan Herbicide, Goal advanced, Baron WG	Diphenylethers	E	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	none set	none set	0.05	0.05	none set	none set	see NZ MRL
PARAQUAT (also Paraquat present as Paraquat dichloride)	PQ 200, Parable, Gramoxone, Preeglone, Flash, Speedy, Uniquat 250,	Bipyridyliums	D	Y	pre emergence	0.05	0.20	0.05		see Codex	0.20	0.20	0.02	see Codex	0.20	0.05	0.05
PROMETRYN	Prometryne 500SC, Prominent, Progard, Poptryn	Triazinones	C1	Y	after moulding	0.10	0.10	none set		see NZ MRL	0.05 / Nil Detect from October 2017	0.05 {30}	not approved	none set	none set	none set	see NZ MRL
TERBUTHYLAZINE	Batallion, Terbo Flo, Topogard	Triazinones	C1	Y – some products	after moulding. Depends on product. Check label.	0.10	see NZ MRL	none set		see NZ MRL	none set	0.05 {30}	0.10	see EU	none set	none set	see NZ MRL
TERBUTRYN	Batallion, Terbo Flo, Topogard	Triazinones	C1	Y	after moulding	0.10	see NZ MRL	none set		see NZ MRL	none set	0.05 {30}	not approved	none set	none set	none set	see NZ MRL

Key & Notes

Key	
None set	Means that no MRLs have been set and detectable residues should not be present (nil detect)
Unknown	Use is off label as no WHP has been assessed
Not required	WHP is not required as the active is exempt from MRLs, when used according to the label
Exempt	Active is exempt from the requirements to set an MRL
Not applicable	When used as directed on the label (eg pre emergence) a WHP is not applicable as use pattern is only one application - therefore no WHP is not necessary
See Codex	"See Codex" means that no national MRL exists, but the national legislation recognises Codex MRLs for imported potatoes see Codex tab for more information
See EU	"See EU" If there is no national MRL set in New Caledonia, imported food must comply with Codex MRLs. If there is neither a national, nor a Codex MRL in place, then imported food must comply with MRLs set by the EU. Changes are anticipated to New Caledonia's MRL legislation in mid-2018.
HRAC	Herbicide Resistance Action Committee is a specialist technical group who provides herbicide resistance management guidelines to prolong the effectiveness of herbicides and to limit resistance. This includes releasing a classification of herbicide modes of action www.hracglobal.com/pages/classificationofherbicidesiteofaction.aspx

Notes: The below residue definition notes are taken directly from the MPI website, except for specified Japanese definitions

4	Limits for mixed isomers/enantiomers apply to the refined isomers/enantiomers
16	Includes 3-chloroaniline (or 3,4-dichloroaniline) metabolites/moiety as appropriate
21	Sum of parent plus -sulphoxide and -sulphone metabolites, as parent
30	MRL is for "Other Ag Products" , applying if no Codex MRL or extrapolation is not applicable
64	Sum of sethoxydim and clethodim, expressed as sethoxydim
85	Sum of free and conjugated residues
94	Included AMPA and N-acetyl-N-(phosphonomethyl) glycine metabolites
102	Sum of parent, esters and conjugates
104	Incl metab w -cyclohexene-3-one, -OHcyclohexene-3-one moieties & sulfoxides, sulphones
124	Sum of glufosinate and metabolites MPP and NAG, expressed as glufosinate
Japan Fluazifop-p-butyl	Fluazifop-butyl is defined as the sum of fluazifop-butyl and fluazifop acid (including metabolites which is changed into fluazifop acid by hydrolysis) which is expressed as fluazifop-butyl. In this case, fluazifop-butyl includes fluazifop-P-butyl and fluazifop acid includes fluazifop-P-acid.
Japan Metribuzin	MRLs for metribuzin are established for the sum of residues of metribuzin and each of deaminometribuzin, and diketometribuzin, and deaminodiketometribuzin, which are individually calculated as metribuzin

NOTES

Potatoes New Zealand Inc

Level 4, Co-operative Bank House,
20 Ballance Street, Wellington
PO Box 10232, The Terrace,
Wellington 6143

Phone: 0800 399 674

www.potatoesnz.co.nz