



# RESIDUE COMPLIANCE INFORMATION FOR POTATOES NEW ZEALAND

December 2021



# Potatoes New Zealand

*Building a secure and sustainable future for our industry*

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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 Solutionz 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 this document for insecticides, fungicides and herbicides. Codex MRL information is also presented. MRL residue definitions in some countries for some pesticides also include metabolites. Residue monitoring for MRL-compliance should 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: <https://www.mpi.govt.nz/processing/agricultural-compounds-and-vet-medicines/maximum-residue-levels-for-agricultural-compounds/>

Export MRLs: <https://www.mpi.govt.nz/news-and-resources/resources/registers-and-lists/maximum-residue-levels-database/>

EPA controls database: <https://www.epa.govt.nz/database-search/approved-hazardous-substances-with-controls/>

This document should be read in conjunction with the NZGAP document 'Guideline for off label use of agrichemicals in Horticulture' found here: [www.newzealandgap.co.nz/NZGAP\\_Public/NZGAP\\_Public/Growers/Guidelines.aspx](http://www.newzealandgap.co.nz/NZGAP_Public/NZGAP_Public/Growers/Guidelines.aspx)

**The information contained in this document was correct at the time of collation (September 2021)**

**Key** Green text = change since last year

Blue text = New active ingredient

Red text = Highlights where MRL has been revoked, is Nil Detect, or not approved in that country

## Commentary on the Pacific

### Residue compliance information for Potatoes NZ

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 has indicated that a priority for them is exploring ways to meet International Food Safety (Codex) Standards. [www.agriculture.gov.ck](http://www.agriculture.gov.ck)

### 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.health.gov.fj/wp-content/uploads/2014/09/33\\_The-Food-Safety-Regulations-2009.pdf](http://www.health.gov.fj/wp-content/uploads/2014/09/33_The-Food-Safety-Regulations-2009.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/wp-content/uploads/01.Acts/Acts%202015/Food-Act-2015-Eng.pdf](http://www.palemene.ws/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.

### New Caledonia:

There is some uncertainty around which MRLs New Caledonia accepts. New Caledonia was previously known to accept Codex MRLs if no national MRL had been set, however our current understanding is that the New Caledonian parliament is wanting to enforce a more recent decree which states that if no national MRL has been set, EU MRLs including EUs default will be recognised (but not Codex). For this reason, we have amended a number of cells in the charts which previously stated "refer to Codex". This aligns with MPI's database and their understanding of how MRLs are being applied in New Caledonia.

## 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](http://www.irac-online.org)

[www.frac.info](http://www.frac.info)

[www.hracglobal.com](http://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 limit 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
<b>Competent Authority (Ministry/Agency)</b>	Food Safety Standards	Ministry of Agriculture	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)	Ministry of Health (VFA)
<b>Codex MRLs recognised if no national MRL</b>	No	Yes	No	No - since January 2019 Korea has implemented its positive list system and no longer recognises Codex		No	No* - EU MRLs including EU default (0.01 mg/kg recognised)	Yes	Yes	Yes
<b>NZ MRL recognised if no national/Codex MRL</b>	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
<b>Default MRL if no national or Codex MRL</b>	See above - TTMRA. Australia has some set MRLs to accommodate low level inadvertent residues (e.g.spray drift definition {141}).	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)	<0.01mg/kg	Refer to NZ MRL (i.e. if no National MRL or Codex MRL either the NZ MRL or NZ default MRL applies)

\* There is some uncertainty around which MRLs New Caledonia accepts. New Caledonia was previously known to accept Codex MRLs if no national MRL had been set, however our current understanding is that the New Caledonian parliament is wanting to enforce a more recent decree which states that if no national MRL has been set, EU MRLs including EUs default will be recognised (but not Codex). For this reason, we have amended a number of cells in the charts which previously stated "refer to Codex". This aligns with MPI's database and their understanding of how MRLs are being applied in New Caledonia.

**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 regulation 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 at anytime.

## Insecticides

Active ingredient	Trade name examples	Agrichemical group	HRAC Group code	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
ABAMECTIN	Apostle, Avid, Verdex, Tripsol	Avermectin	6	Y	14	0.10	0.01 {135}/ {141}	0.005 {135}		0.01	none set	0.01 (default)	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	0.02	0.05	none set	none set	see NZ MRL
ALPHA-CYPERMETHRIN	Bestseller 100EC, Cypher, Dominex 100	Synthetic Pyrethroid	3A	N	unknown	0.10	0.01 {15}/ {141}	0.01 {15}		see Codex	0.05 {15}	0.05 {15}	0.05 {15}	0.05	see Codex	see Codex	0.01 {15}
AZADIRACTIN	Naturally Neem, Neem Azal-T/S	Biological Insecticide	UNE	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	Bactericide 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	none set	none set	none set	none set	see NZ MRL
BIFENTHRIN	Talstar 100 EC, Talstar 80SC, Venom, ETEC Bifenthrin, Assail	Synthetic Pyrethroid	3A	N	unknown	0.10	0.03 {141}	0.05 {7}		see Codex	0.05	0.05	0.05 {7}	see EU	see Codex	0.50 {30}/ {7}	0.05 {7}
CARBARYL	Sevin Flo	Carbamate	1A	N	unknown	0.10	0.10	none set		see NZ MRL	0.1/0.02 (proposed)	0.05	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	0.01	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)	8B	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, Pychlorex 48EC, Pynex 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	0.02 Proposed	0.05	not approved	0.05	0.05	0.01	2.00
CLOFENTEZINE	Apollo Miticide	Clofentezine	10A	N	unknown	0.10	0.02 {141}	none set		see NZ MRL	none set	none set	0.02	see EU	none set	none set	see NZ MRL

Active ingredient	Trade name examples	Agrichemical group	HRAC Group code	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
CYANTRANILIPROLE	DuPont Benevia and Exirel, Minecto	Anthranilic diamide	28	Y - Some products. Refer to label.	14	0.01	0.05	0.05		see Codex	0.20	0.05	0.05	see EU	see Codex	see Codex	0.05
DELTA METHRIN	Ballistic Insecticide, Decis Forte, Deltaphar 25EC, Proteus	Synthetic Pyrethroid	3A	Y	14	0.01 {7}	0.05 {141}	0.01 {7}		0.01	0.02	0.01 {7}	0.30	0.20	0.01	0.05 {30} / {7}	0.01
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	not approved	0.10	0.05 {19}	see Codex	0.05
FATTY ACIDS (K SALTS)	Protector hml, Clenza	Fatty acids	n/a	N	not required	exempt (C8+)	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}	see NZ MRL	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	Phenylpyrazole	2B	N	unknown	0.10	0.01 {153}	0.02		0.02	0.02	0.01	0.005 {70}	0.01	0.05	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	Neonicotinoid	4A	Y (seed tuber only)	not required	0.02 {25}	0.30 {25}	0.50 {25}		see Codex	0.40	0.30	0.50 / 0.01 proposed	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, Dawn	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, Lavron 50WG	Synthetic Pyrethroid	3A	Y	14	0.01	0.01 {23}	0.01 {23}		see Codex	0.04 {23}	0.02 {23}	0.01 (default)	0.02	see Codex	0.05 {30} / {7}	0.01 {23}
LUFENURON	Nuron	Benzoylurea	15	Y	42	0.01	0.02 proposed	0.01		see Codex	0.02	0.01 (default)	not approved	see EU	see Codex	see Codex	see Codex
METALDEHYDE	Donaghys Slugicide, Endure, Just Slug and Snail Bait, Metarex Inov, Slug Slam, Slugout	Aldehyde	n/a	Y - Some products. Refer to label.	unknown	0.10	1.00	none set		see NZ MRL	none set	none set	0.15	0.15	1.00	none set	see NZ MRL
METHAMIDOPHOS	Metafort 60 SL, Methafos 600	Organophosphate	1B	Y	14	0.01	0.25	0.05		0.05	0.10	0.05	not approved	see EU	0.10	nil detect	0.05
METHIOCARB	Baysol Snail & Slug Bait, Mesurol	Carbamate	1A	N	unknown	0.10	0.10	0.05		0.05	0.05 {21}	0.05	0.03 {160}	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}	0.02 {35}	not approved	see EU	0.10	0.02 {35}	0.02 {35}
MINERAL AND NON-MINERAL OILS	Caltex D-C Tron, Excel Oil, Excel Spring oil, Invictus	n/a	n/a	N	unknown	Exempt (paraffin oils)	GRAS	none set		see NZ MRL	exempt	exempt	0.01 Paraffin oil exempt	see EU	none set	none set	see NZ MRL
PERMETHRIN	Ambush, Attack	Synthetic Pyrethroid	3A	N	unknown	0.10	0.05 {7}	0.05		0.05	0.05 {7}	0.05 {7}	0.05	see EU	0.05	0.10 {30} / {7}	0.05 {7}

Active ingredient	Trade name examples	Agrichemical group	HRAC Group code	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
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	0.02 {141} proposed	none set		see NZ MRL	0.05	0.05	0.01 (default)	see EU	0.05	none set	revoked
PYMETROZINE	Chess WG, Endgame, Bravium, Minecto Star	Pyridine azomethine	9B	Y	7	0.02	0.02	none set		see NZ MRL	0.10 / 0.05 May 2022	0.20	0.02	0.02	none set	none set	see NZ MRL
PYRETHRINS	Greenseals Pyrethrum, Pestigas, Pyganic	Pyrethroid	3A	N	Varies between products	1.00	1.00	0.05		see Codex	1.00	1.00	1.00	1.00	1.00	see Codex	0.05
SPINETORAM	Sparta, Uphold	Spinosyns	5	Y	7	0.02 {62}	0.02 {167}	0.01 {77}		see Codex	0.10	0.05	0.02 {167}	see EU	see Codex	see Codex	see Codex
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, Optimite	Tetronic and Tetramic acid derivatives	23	Y	7	0.10	see NZ MRL	0.02 {90}		see Codex	0.02 {90}	0.01	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 {90}	see EU	see Codex	see Codex	0.80 {90}
SULFOXAFLOR	Transform	Sulfoximine	4C	Y	7	0.05	0.01	0.03		see Codex	0.05 {7}	0.05	0.03 {7}	see EU	see Codex	see Codex	0.03
TAU-FLUVALINATE	Mavrik Aquaflor Insecticide, Mavrik Duo	Synthetic Pyrethroid	3A	Y	7	0.01	0.02 {38} / {141}	none set		see NZ MRL	none set	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	Neonicotinoid	4A	Y	14	0.02	0.10 {141}	0.02		0.02	0.02	0.10	0.02	see EU	see Codex	see Codex	0.02
THIAMETHOXAM	Actara, Rocket, Durivo	Neonicotinoid	4A	Y	90 days for registered product. Check label.	0.02	0.70	0.30		see Codex	0.30	0.30	0.07	0.30	see Codex	see Codex	0.30
THIODICARB	Larvin SC, Nufarm Thiodicarb	Carbamate	1A	N	unknown	0.10	0.10 {110}	0.02 {35}		see Codex	0.30 {35}	0.02 {35}	not approved	see EU	see Codex	see Codex	see Codex
VERTICILLIUM LECANII	eNtokill, eNtoblast	Biological Insecticide	n/a	N	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

## 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
UNE	"Botanical essence including synthetic, extracts and unrefined oils with unknown or uncertain MoA"
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 page 4 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: <a href="http://www.irac-online.org/modes-of-action/">www.irac-online.org/modes-of-action/</a>

### Notes: The below residue definition notes are taken directly from the MPI website

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
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)
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
70	Sum of parent plus the -sulphone 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 the B1a isomer (for avermectin or emamectin)
141	MRL is to accommodate low level inadvertent residues
153	Sum of fipronyl plus its sulphenyl, sulphonyl and trifluoromethyl metabolites
162	Sum of parent and metabolites BTS 44595 and BTS 44596, expressed as parent
167	Sum of spinetoram J and spinetoram L



# Fungicides

Active Ingredient	Trade name/s (not all listed)	Agrichemical group	FRAC	Registered on potato?	NZ WHP (days)	Potato / crop group NZ MRL (mg/kg)	Australia	Codex		Indonesia	Japan	Korea	EU	New Caledonia	Singapore	Thailand	Vietnam
AMETOCTRADIN	Zampro	Triazolo-pyrimidylamine	45	Y	14	0.01	0.05	0.05		0.05	0.05	0.05	0.05	see EU	see Codex	see Codex	0.05
AZOXYSTROBIN	AGPRO Azoxystrobin 250 SC, Atlantis Flo, Inspire, Orbit, Roxy, Salute, Amistar, Mirador 250 SC, Tazer, Avior 250 SC, Amistar Opti	Methoxy-acrylates	11	Y	14	0.02 {97}	7.00	7.00		see Codex	7.00	7.00	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 (strain QST 713)	see EU	none set	none set	see NZ MRL
BOSCALID	Bosson, Boscacool, Unistar, Pristine, Essence, Energy	Pyridine-carboxamides	7	N	unknown	0.50	1.00	2.00		see Codex	2.00	0.05	2.00	2.00	see Codex	see Codex	2.00
BUPIRIMATE	Nimrod Ew Fungicide, Neptune Encaps, Neptune, Evito	Pyrimidine	8	N	unknown	0.10	0.02 {141}	none set		see NZ MRL	none set	none set	0.01	0.05	none set	none set	see NZ MRL
CAPTAN	Crop Care Captan 900 Wg, Fruitfed Captan 80WG, Merpan, Orthocide 80 Wdg, Capetec	Phthalimides	M04	Y (seed tuber only)	not required	10.00	0.10 {141}	0.05		0.05	0.05	0.05	0.03 {134}	see EU	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, Cobra	Benzimidazole	1	N	unknown	0.10	see NZ MRL	none set		see NZ MRL	0.60 {101}	0.03	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, Thalonil, Cleaner	Chloronitrile	M05	Y	7 to 14 days depending on product. Check label.	0.10	0.10	0.30		see Codex	0.2 / 0.3 Proposed	0.10	not approved	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	M01	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	M01	Y	14	exempt	see NZ MRL	none set		see NZ MRL	none set	none set	5.00	see EU	none set	none set	see NZ MRL

Active Ingredient	Trade name/s (not all listed)	Agrichemical group	FRAC	Registered on potato?	NZ WHP (days)	Potato / crop group NZ MRL (mg/kg)	Australia	Codex		Indonesia	Japan	Korea	EU	New Caledonia	Singapore	Thailand	Vietnam
COPPER OXYCHLORIDE	Agpro Copper Oxychloride 800 Wp, Fruited Copper Oxychloride, Oxi-Cup	Inorganic copper	M01	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
CYAZOFAMID	Ranman	Cyanoimidazole	21	Y	7	0.01	0.04 {141}	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}	0.01		see Codex	none set	none set	0.02	0.05	none set	none set	see Codex
DICHLOROPROPENE	Telone C-35 Soil Fumigant, Telone Soil Fumigant, Tri-Form 60, Tri-Form 1,3-D, Agrocelhone Soil fumigant			generic soil claim	not applicable - bare soil use	0.01 {7}	GRAS	none set		see NZ MRL	0.01	none set	0.01 {120} / {7}	See EU	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 - Some products. Check label.	14	0.10	4.00	4.00		0.02	4.00	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	0.10	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	not approved	see EU	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	5.00	5.00		0.02	6.00	5.00	5.00	1.00	see Codex	see Codex	0.02 / 5.00
FLUOPICOLIDE	Infito	"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	Sulfonanilide	36	Y (seed tuber only)	not required	0.02	see NZ MRL	none set		see NZ MRL	0.05	0.05	not approved	none set	none set	none set	see NZ MRL
FOSETYL-ALUMINIUM	Fostonic 80WP, Alette WG, Root Protect Alette	Ethyl phosphonates	P07	N	unknown	exempt (as H3PO3)	see NZ MRL	none set		see NZ MRL	35.00 {131}	20.00	40 / 200 {131} Proposed	30.00	none set	none set	see NZ MRL

Active Ingredient	Trade name/s (not all listed)	Agrichemical group	FRAC	Registered on potato?	NZ WHP (days)	Potato / crop group NZ MRL (mg/kg)	Australia	Codex		Indonesia	Japan	Korea	EU	New Caledonia	Singapore	Thailand	Vietnam
IMAZALIL	Monceren Im Ds	Imidazole	3	Y (seed tuber only) depending on product. Check label.	not required	0.10	5.00	9.00		5.00	5.00	5.00	0.01	3.00	see Codex	see Codex	5.00
IPRODIONE	Defence 500, Ippon 500Sc, Rapid 500, Rovral Aquaflo, Rovral Wp, Iprone	Dicarboximide	2	N	unknown	0.10	0.05	none set		see NZ MRL	0.50	0.50	not approved	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, Eurozeb 75WG	Dithiocarbamate	M03	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{17}	0.30{17}	0.30{17}/0.30	0.10{17}	0.20{17}	0.20{17}
MANDIPROPAMID	Revus	Mandelic acid amides	40	Y	14	0.01	0.50{141}	0.10		0.01	0.09	0.10	0.10	0.01	see Codex	see Codex	0.01
METALAXYL	Helios, Max Mz, Phytospear, Picasa, Speartek, Ventura, Shotgun	Acylalanines	4	Y - Some products. Check label.	14	0.05{7}	0.10	0.05		0.05	0.30{75}	0.05	0.02{75}	see EU	0.10	0.05	0.05
METALAXYL-M	Ridomil Gold Mz Wg, Folio Gold	Acylalanines	4	Y - Some products. Check label.	14	0.05{75}	0.10{75}	none set		0.05{75}	0.30{75}	0.05{75}	0.02{75}	0.05	0.10{7}	0.05{75}	0.05{75}
METAM SODIUM	Fumasol	Thiocarbamate	M12	generic soil claim	not applicable - bare soil use	0.10	1.00{17}	none set		see NZ MRL	0.20{166}	none set	0.02{24}/0.01 Proposed	see EU	none set	none set	see NZ MRL
METRAFENONE	Vivando	Benzophenone	50	N	unknown	0.10	0.05{141}	none set		see NZ MRL	none set	none set	0.01 (default)	see EU	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	none set	0.02{106}	0.10	0.70	none set	see NZ MRL
PHOSPHOROUS ACID/ INORGANIC PHOSPHOROUS	Agri-Fos 600, Foschek, Hi Pk, Phosgard, Stemshot Av-1, Tree-Doc 400Sl	Phosphonates	P07	N	unknown	exempt	700	none set		see NZ MRL	35	none set	40{131}/200 Proposed	see EU	none set	none set	see NZ MRL
PROCYMIDONE	Sumislex 500Sc, Procym, Agpro Procymidone	Dicarboximide	2	Y	14	0.10	0.10	none set		see NZ MRL	0.20	0.10	not approved	see EU	none set	none set	see NZ MRL
PROPAMOCARB	Infinito	Carbamate	28	Y	14	0.10	0.30	0.30		0.30	0.30	0.30	0.3{154}	0.50	see Codex	see Codex	0.30

Active Ingredient	Trade name/s (not all listed)	Agrichemical group	FRAC	Registered on potato?	NZ WHP (days)	Potato / crop group NZ MRL (mg/kg)	Australia	Codex		Indonesia	Japan	Korea	EU	New Caledonia	Singapore	Thailand	Vietnam
PROPINEB	Antracol	Dithiocarbamate	M03	Y	14	0.10	1.00 {17}	0.20 {17}		0.20 {17}	0.20 {17}	0.30 {105}	0.30 {105} / 0.20 {128} / 0.05 {128} - proposed	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
PYDIFLUMETOFEN	Miravis	SDHI	7	y	14	0.01	0.05	none set		see NZ MRL	0.02	0.02	none set	none set	none set	none set	see NZ MRL
SULPHUR	Agpro Sulphur, Fungisul 80 Wp Zolfindustria, Kumulus Df, Microthiol Disperss, Organic Super Sulphur, Sulclean Df, Thiovit Jet	Inorganic sulphur compound	M02	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	15.00	0.04	see EU	5.00 (washed)	0.10 {30}	15.00
THIOPHANATE-METHYL	Taratek 5F	Thiophanates	1	Y - Some products. Check label.	14	0.10	0.10 {141} / {112} - proposed	none set		see NZ MRL	0.60 {101}	0.03 {101}	0.10	0.10	none set	0.10 {30} / {101}	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 EU	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: <a href="http://www.frac.info/about-frac/frac-guidelines">www.frac.info/about-frac/frac-guidelines</a>

### Notes: The below residue definition notes are taken directly from the MPI website

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
20	Sum of parent plus -desmethylthio metabolites, as parent
24	Expressed as methylisothiocyanate (from dazomet or metam)
30	MRL is for "Other Ag Products" , applying if no Codex MRL or extrapolation is not applicable
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
105	As carbon disulphide
106	Sum of pencycuron and its PB-amine, expressed as pencycuron
112	Sum of parent and 2-aminobenzimidazole, expressed as parent
120	Sum of parent, salts, esters and conjugates, expressed as parent
131	Sum of fosetyl, phosphonic acid and its salts (phosphonates), expressed as fosetyl
134	Sum of captan and THPI, expressed as captan
141	MRL is to accommodate low level inadvertent residues or in rotational crops
154	Sum of parent plus its salts/esters (as relevant), expressed as parent

# Herbicides

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
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, Tag, Tag G2	Triazole	F3	N	unknown	0.10	0.05	none set		see NZ MRL	none set	none set	not approved	see EU	none set	nil detect	see NZ MRL
CARFENTRAZONE-ETHYL	Clout FW, Shark, Hammer Force, Nail EC, Torus	Triazolinones	E	Y - Seed potatoes	14	0.10	0.05	none set		see NZ MRL	0.10	0.10	0.02	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 - some product labels state to not sell or process until 21 days after application	50.00	30.00	30.00		30.00	30.00	30.00	0.40 {141}	10.00	50.00	see Codex	30.00
CLETHODIM	Sequence, Vega, Arrow, Centurion Xtra, Cleo, Grasidim, Sierra 360EC, Cletho 240, Millenium	Cyclohexanediones 'DIMs'	A	Y - Some products. Refer to label.	5 weeks depending on product. Check label.	0.10	1.00 {64}/ {104}	0.50 {104}		0.50	1.00 {146}	0.05 {104}	0.50 {64} to be replaced	1.00	see Codex	see Codex	0.50 {104}
CLOMAZONE	Major, Magister CS, Solvo, Director CS, Clozone	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 - Some products. Refer to label.	at emergence	0.01	0.02	none set		see NZ MRL	0.02	none set	not approved	none set	none set	none set	see NZ MRL
DIQUAT	Dy-Quat, Desiquat, Reglone, Preeglone, Diquat, Speedy, PDQ	Bipyridylum	D	Y - Some products	14 days (haulm dessication) or pre-emergence depending on product. Check label.	0.05	0.20	0.10		0.05	0.10	0.08	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 / 0.05 {16} / {141} proposed	none set		see NZ MRL	0.05	1.00	not approved	0.10	none set	none set	see NZ MRL

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
ENDOTHAL	Desicate II	Organoarsenicals	Z	Y	when tubers reach optimum size / at senescence	0.05	see NZ MRL	none set		see NZ MRL	none set	none set	not approved	none set	none set	none set	see NZ MRL
FLUAZIFOP-P-BUTYL	Fusilade Forte	Aryloxyphenoxypropionates 'FOPs'	A	Y	35	0.10	0.05 {173}	0.60 {173}		see NZ MRL	0.70 {46}	0.05	0.15 {102}	0.10	see Codex	see Codex	see Codex
FLUFENACET	Artist	Oxyacetamide	K3	Y- Some products	Do not apply after crop emergence	0.01 {156}	see NZ MRL	none set		see NZ MRL	0.1 {28}	0.05	0.15 {116}	0.10	none set	none set	see NZ MRL
GLUFOSINATE-AMMONIUM	Buster, Agpro Glufosinate 200, Vixen, Nirvana, Bash, Fiestar Non-Selective Herbicide, Bastnate	Phosphinic acids	H	stale seedbed preparation	28	0.10	0.10 {141} / {124}	0.10 {124}		0.10	0.20 {124}	0.80 {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, 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	0.05	0.50 and 0.05 {76}	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	not approved	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	60.00	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	see EU	none set	none set	see NZ MRL
METOBROMURON	Soletto	Ureas	C2	Y	pre emergence	0.01 {176}	see NZ MRL	none set		see NZ MRL	none set	0.20	0.01 (default)	see EU	none set	none set	see NZ MRL
METRIBUZIN	Sencor SC, Jazz, Metribuzin, Metribuzin 750 WG, Artist	Triazinones	C1	Y	at emergence	0.01	0.05	none set		see NZ MRL	0.60 {129}	0.05	0.10	0.10	none set	none set	see NZ MRL

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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	0.01	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, PDQ	Bipyridyliums	D	Y	pre emergence	0.05	0.20	0.05		see Codex	0.20	0.20	0.02	see EU	0.20	revoked	0.05
PROMETRYN	Prometryne 500SC, Prominent, Progard, Poptryn	Triazines	C1	Y	after moulding	0.10	0.10	none set		see NZ MRL	none set	none set	not approved	none set	none set	none set	see NZ MRL
PROPHAM	Propham potato dust	Carbamates	K2	y	post harvest	50.00	see NZ MRL	none set		see NZ MRL	nil detect	none set	not approved	none set	none set	none set	see NZ MRL
PROSULFOCARB	Boxer Gold	thiocarbamates and chloroacetamides	N / K3	Y	after planting	0.01	0.01	none set		see NZ MRL	0.05	none set	0.01 (default)	see EU	none set	none set	see NZ MRL
S-METOLACHLOR	Boxer Gold	thiocarbamates and chloroacetamides	N / K3	Y	after planting	0.01	0.01 (7)	none set		see NZ MRL	0.2 (7)	0.05 (7)	0.05 (7)	0.05	none set	none set	see NZ MRL
TERBUTHYLAZINE	Batallion, Terbo Flo, Topogard, Fenican, Agpro terminate, Tag, Tag G2, DK-Terb 900	Terbutylazine	C1	Y - some products	after moulding. Depends on product. Check label.	0.10	see NZ MRL	none set		see NZ MRL	none set	none set	0.01 / 0.10 until 6 Nov 2021	see EU	none set	none set	see NZ MRL
TERBUTRYN	Batallion, Terbo Flo, Topogard	Triazines	C1	Y	after moulding	0.10	see NZ MRL	none set		see NZ MRL	none set	none set	not approved	none set	none set	none set	see NZ MRL



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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
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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 <a href="http://www.hracglobal.com/pages/classificationofherbicidesiteofaction.aspx">www.hracglobal.com/pages/classificationofherbicidesiteofaction.aspx</a>

Notes:	
The below residue definition notes are taken directly from the MPI website, except for specified EU definitions	
7	Sum of isomers or enantiomers or diastereomers
16	Includes 3-chloroaniline (or 3,4-dichloroaniline) metabolites/moiety as appropriate
28	Also includes specified metabolites, total expressed as parent compound
46	Sum of parent plus the free acid and residues (conjugates) convertible to the acid, expressed as parent
64	Sum of sethoxydim and clethodim, expressed as sethoxydim
76	MRL is for the trimethylsulfonium cation (arising from the use of glyphosate)
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
116	Sum of compounds containing N fluorophenyl-N-isopropyl moiety, expressed as flufenacet equivalent
120	Sum of parent, salts, esters and conjugates, expressed as parent
124	Sum of glufosinate and metabolites MPP and NAGlufosinate, expressed as glufosinate
129	Sum of parent and deamino-, diketo- and deaminodiketo-metribuzin (triazinone metabolites)
141	MRL is to accommodate low level inadvertent residues or in rotational crops
146	Clethodim plus metabolites oxidised with chloroperoxybenzoic acid to metabolites C or O, calculated as parent
156	Sum of flufenacet and its sulfonic acid, oxalate and thioglycolate sulfoxide metabolites, expressed as parent
173	Sum of fluazifop-P-butyl, fluazifop-P-acid and their conjugates, expressed as fluazifop-P-acid
176	As 4-bromophenylurea





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