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## **Supporting document 1**

**Dietary exposure assessments and proposed MRL changes –  
Proposal M1018**

**Maximum Residue Limits (2020)**

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### **Executive summary**

This Supporting Document provides information relating to the results of the dietary exposure assessments (DEA) undertaken for the requested agricultural and veterinary (agvet) chemicals and food commodities for the Maximum Residue Limits (MRL) (2020) Harmonisation Proposal, M1018. This proposal includes consideration of MRLs gazetted by the Australian Pesticides and Veterinary Medicines Authority (APVMA), and MRLs requested by other parties seeking to align MRLs in the Code with those established by the Codex Alimentarius Commission (Codex) and other trading partners.

A DEA was undertaken for each of the requested chemicals where the APVMA or the Joint Food and Agriculture Organization / World Health Organization Meeting on Pesticide Residues (JMPR) have established a relevant Health-Based Guidance Value (HBGV), such as an Acceptable Daily Intake (ADI) or Acute Reference Dose (ARfD). Where there was no APVMA or JMPR HBGV and the agvet chemical is or has been previously listed in schedule 20, another authoritative source of HBGV for the DEA was used. The DEA methods used are consistent with internationally accepted methodologies, the APVMA's risk assessment framework for approving and registering agricultural chemical products for use in Australia and the process used by both the APVMA and FSANZ for establishing and reviewing MRLs in schedule 20 of the Code.

The National Estimated Daily Intake (NEDI) was calculated for each of the requested chemicals and food commodities to represent chronic dietary exposure. The NEDI estimate was then compared to the ADI for that chemical. The National Estimated Short-Term Intake (NESTI) was also calculated for an acute (short-term) dietary exposure for each of the requested chemicals and food commodities and then compared to the relevant ARfD, if established.

The food consumption data used for the dietary exposure assessments were sourced from the 2011–12 National Nutrition and Physical Activity Survey (NNPAS), a component of the 2011–13 Australian Health Survey. The mean food consumption data for all survey respondents (n=7,735, aged 2 years and above) were used for the NEDI. This mean value represents the average consumption of a food commodity for the whole population. For the NESTI calculations, food consumption data at the 97.5<sup>th</sup> percentile for consumers only of the commodity (aged 2 years and above) were extracted. To derive NESTI estimates for specific sub-population groups, 97.5<sup>th</sup> percentile food consumption data for the groups were also

derived. The population sub-groups included children aged 2–6 years and women of childbearing age (16–44 years).

An additional assessment was conducted for the agvet chemicals to determine their suitability for the establishment of an *All other foods except animal food commodities* MRL. For agvet chemicals with an existing *All other foods except animal food commodities* MRL the limit was reviewed. The assessment process for this MRL category followed the principles set out in Proposal P1027 – Managing Low-level Ag & Vet Chemicals without Maximum Residue Limits. The proposed MRLs for this category allow for low level inadvertent presence of chemical residues in food following legitimate use, whilst aiming to limit 'off-label' use.

The dietary exposure estimates for all chemicals with proposed MRLs in M1018 are below relevant HBGVs, indicating negligible health and safety concerns to Australian consumers. The proposed MRL changes, origin of requests, commodity descriptions, comparisons with Codex MRLs and the dietary exposure estimates for the Australian population are given in Table 1 of this document. The summaries of existing or proposed *All other foods except animal food commodities* MRLs are set out in the Appendix.

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# 1. Introduction

This Supporting Document provides information relating to the results of the dietary exposure assessments undertaken for each of the requested agvet chemicals and food commodities for the 2020 MRL Harmonisation Proposal, M1018.

The harmonisation requests sought to align MRLs in schedule 20 of the *Australian New Zealand Food Standards Code* (the Code) with the MRLs proposed by the requestors which were either established by the Codex Alimentarius Committee (Codex) or the countries in which the foods were produced. These standards all reflect legitimate international use of permitted agvet chemicals in the production of the food commodities. The proposal also included requests from the Australian Pesticides and Veterinary Medicines Authority (APVMA) to align the Code with the APVMA MRL Standard, including the removal or reduction of certain MRLs.

The risk assessment estimated dietary exposures for all agvet chemicals where the APVMA or JMPR had established a relevant Health-Based Guidance Value (HBGV), such as an Acceptable Daily Intake (ADI) or Acute Reference Dose (ARfD). On occasions, when a HBGV was not established by the APVMA or JMPR, an alternate HBGV was used.

For each chemical considered in this proposal the existing *All other foods except animal food commodities* MRLs were reviewed and where appropriate, an additional assessment was conducted for suitability to establish *All other foods except animal food commodities* MRLs. Assessment and allocation of this MRL category followed the principles set out in *Proposal P1027 – Managing Low-level Ag & Vet Chemicals without Maximum Residue Limits*.

The methods used for the dietary exposure estimates are consistent with internationally accepted methodologies, with the APVMA's risk assessment framework for approving and registering agricultural chemical products in Australia and the process used by both the APVMA and FSANZ for establishing and reviewing MRLs in schedule 20.

## 2. Chronic Dietary Exposure Assessment

The National Estimated Daily Intake (NEDI) represents an estimate of chronic dietary exposure expressed on an exposure per day basis. In chronic dietary exposure assessments, the chemical residues in all the food commodities that could result from the permitted use of the agricultural chemicals are considered. Chemical residue trial data, as opposed to the MRL, are the preferred concentration data used if available, as they provide a more realistic estimate of dietary exposure.

The estimated mean exposure from each food commodity is added together to provide the total mean dietary exposure to a chemical from all foods with MRLs. The estimated mean dietary exposure is divided by the mean body weight for the population to provide the amount of chemical consumed per day per kg of body weight for the Australian population. This result is then compared to the ADI established for the chemical.

The NEDI calculation may incorporate more specific data as appropriate. The NEDI calculation may also take into account factors such as the proportion of the crop or commodity treated with the chemical, the residues in edible portions and the effects of processing and cooking on the residue levels. It may use supervised trials median residue (STMR) levels rather than the MRLs to represent chemical residue levels.

Chemical concentration data from monitoring and surveillance activities or the Australian Total Diet Studies (ATDS) may also be used if necessary.

If data are not available on the specific residues in a food, a cautious approach is taken and the MRL value is used in the calculation. However, use of the MRL in dietary exposure estimates may result in considerable overestimates of exposure because this approach assumes that:

- the agricultural chemical will be used on all crops for which there is a registered use or an approved permit
- treatment occurs at the maximum application rate
- the maximum number of permitted treatments have been applied
- the minimum withholding period applies
- the entire crop and food supply contains residues equivalent to the MRL.

In reality, only a portion of a specific crop is treated with the chemical and most treated crops at harvest contain residues well below the MRL. The levels of residues are usually reduced during storage, preparation, commercial processing, and cooking. It is also unlikely that every food for which an MRL is proposed will have been treated with the same pesticide throughout the lifetime of consumers that eat those foods. However, for the purposes of undertaking a risk assessment, it is prudent to be protective of consumers, particularly in the absence of data that could further refine the dietary exposure estimates.

The NEDI presented as a percent of the HBGV (ADI) in Table 1 includes all foods with existing MRLs, the foods requested in this proposal and all other foods except animal food commodities where an MRL has been proposed.

### **3. Acute Dietary Exposure Assessment**

The National Estimated Short-Term Intake (NESTI) is used to estimate acute (short-term) dietary exposure. Acute dietary exposure assessments are undertaken where the APVMA has set an ARfD for a chemical or advised it is appropriate to use a JMPR ARfD. The established ARfD is used for NEDI assessments for the population aged 2 years and above and children 2-6 years. An acute dietary exposure assessment is only undertaken for women of childbearing age (16-44 years) where a specific ARfD for this group is established.

The NESTI is calculated in a similar way to chronic dietary exposure, but uses the ARfD rather than ADI as the HBGV and food consumption data at the 97.5th percentile for consumers only instead of the mean for all survey respondents. The calculation can take into account factors such as the highest residue on a composite sample of an edible portion, the STMR, processing factors (which affect changes from the raw commodity to the consumed food) and a 'variability factor' (to account for variations in residues between individual pieces of a commodity) where appropriate.

The equations for calculating the NESTI differ depending on the type or size of the commodity. These equations are agreed and used internationally. The calculations provide information on the level of exposure to a chemical from consuming an individual food commodity (e.g. wheat) and take into account the consumption of processed foods that contain the commodity (e.g. apple pie and bread). The estimated exposure for each individual food is compared to the ARfD. Unlike the NEDI, the calculations are done for each commodity individually; there is no summing of exposures across foods.

A NESTI calculation may include food consumption data for particular sub-groups of the population.

## **4. *All other foods except animal food commodities* MRLs**

All agvet chemicals that required a dietary exposure assessment were considered for suitability for setting an *All other foods except animal food commodities* MRL using the principles established in P1027. Both chronic and, where appropriate, acute dietary exposures were considered. The proposed MRLs are high enough to allow for inadvertent presence of the chemical in food from legitimate use but low enough to limit the potential for 'off-label' use of the chemical. This approach is consistent with the APVMA's risk assessment framework for approving and registering agvet chemical products, and with the risk assessment approach for establishing MRLs in the Code.

Agvet chemicals that are not considered for setting *All other foods except animal food commodities* MRLs are the following:

- Agvet chemical is not currently listed in schedule 20
- Active constituent (agvet chemical) is not registered for use in Australia
- Active constituent is listed only in Schedule 7 of the Poisons Standard of the Therapeutic Goods Administration
- Agvet chemical is primarily used as a veterinary medicine
- Agvet chemical has an Extraneous Residue Limit listed in schedule 21
- Agvet chemical is currently nominated by the APVMA for formal review
- Based on current MRL permissions, the most recent FSANZ/APVMA NEDI (i.e. chronic dietary exposure estimate), from residues of the agvet chemical exceeded 80% of the ADI
- The contribution from the commodities included to estimate the total chronic dietary exposure would not exceed 20%
- Acute dietary exposure estimate exceeded the ARfD, using a 'worst case' commodity consumption amount and the proposed MRL for *All other foods except animal food commodities*.

## **5. Consideration of recent Codex Alimentarius Commission MRLs**

FSANZ has incorporated many Codex Alimentarius Commission (Codex) MRLs into schedule 20 over the past decade and will continue to include these MRLs where appropriate and when a need has been established. It must be recognised that not every Codex MRL is required to be included in schedule 20 as other equal or higher domestically established or harmonisation proposal requested MRLs, including *All other foods except animal food commodities* MRLs may exist.

A number of *All other foods except animal food commodities* MRLs were proposed as part of M1018 and where possible, these were established at two times the level of determination (LOD) for the relevant analytical method, therefore new Codex MRLs established at or around the LOD (i.e. as indicated by an \* in the Codex MRL Standard) were excluded from consideration in M1018.

New MRLs adopted at the preceding year's (2019) Codex were subjected to a screening process prior to being considered for inclusion in the harmonisation proposal. Codex has updated many commodity group and subgroups classifications. FSANZ has not updated schedule 22 – Foods and classes of foods to reflect changes to Codex classifications. Commodities captured within Codex subgroups that do not have a corresponding schedule 22 classification were included individually in the assessment. In addition, as schedule 20 MRLs only apply to food commodities for human consumption, FSANZ will not include animal feed MRLs adopted at the recent Codex meeting in harmonisation proposals.

This screening process included that a new Codex MRL would be considered for inclusion in the harmonisation proposal if:

- It was higher than the relevant existing schedule 20 MRL
- It was higher than an existing *All other foods except animal food commodities* MRL
- It was at the same limit as a temporary ('T') status MRL for the same commodity/group
- Support for the MRL was received from the APVMA
- The dietary exposure assessment is acceptable.

Where a Codex deletion would remove MRLs for a domestically approved use pattern for a registered chemical, FSANZ would not proceed with the deletion unless it was supported and agreed to by the APVMA. Similarly, if a food commodity MRL proposed to be deleted by Codex is an existing MRL as a result of a prior harmonisation proposal request from a third country no action will be taken to remove the MRL from the Code.

Not all recently adopted Codex MRLs progressed to the stage of dietary exposure estimates during the risk assessment process. Codex MRLs determined suitable for inclusion proceeded through the same dietary exposure assessment process as all other requests.

## **6. Food consumption data used**

### **6.1 NEDI calculation**

Mean food consumption data derived from all respondents (eaters and non-eaters of the foods containing the chemical residue) were used for NEDI calculations. The consumption amounts were derived from respondents (n=7,735) who had two days of 24-hour recall data from the 2011–12 National Nutrition and Physical Activity Survey (NNPAS), which was a component of the 2011–13 Australian Health Survey. The two days of data were averaged for each respondent. The results from this subset of NNPAS respondents were weighted using a specific set of sample weights to ensure the consumption data were representative of the Australian population. Mean consumption data are generally reported in grams/kg bw/day for the whole population aged 2 years and above, where each individual's consumption of a commodity is divided by their own body weight before the summary population statistics are derived.

If no consumption was recorded for a food commodity in the nutrition survey, a default value of 0.0001 g/kg bw/day was assigned, except in the case of edible vegetable oils, where 'market share' data from Euromonitor 2016 was used to estimate the consumption. The percentage of market share data from Euromonitor for 'other vegetable oils' was used to calculate a percentage of the total consumption of vegetable oils.

## 6.2 NESTI calculation

NESTI calculations use food consumption data at the 97.5<sup>th</sup> percentile only for consumers of the food of interest, based on a single day using 24-hour recall data from the 2011-12 NNPAS.

Consumption data were also derived from the subset of survey respondents with two days of 24-hour recall data. However, in this case the two days of recall data were pooled. This means the second day of recall data for each respondent was treated as a separate respondent, giving a larger number of total respondents (n=15470) with a single day of food recall data. The 97.5<sup>th</sup> percentile of consumption represents a high consumer of the particular food commodity from a single meal or over a 24-hour period, and is also termed the 'large portion'. For the calculations used by FSANZ, consumption from a 24-hour period is used.

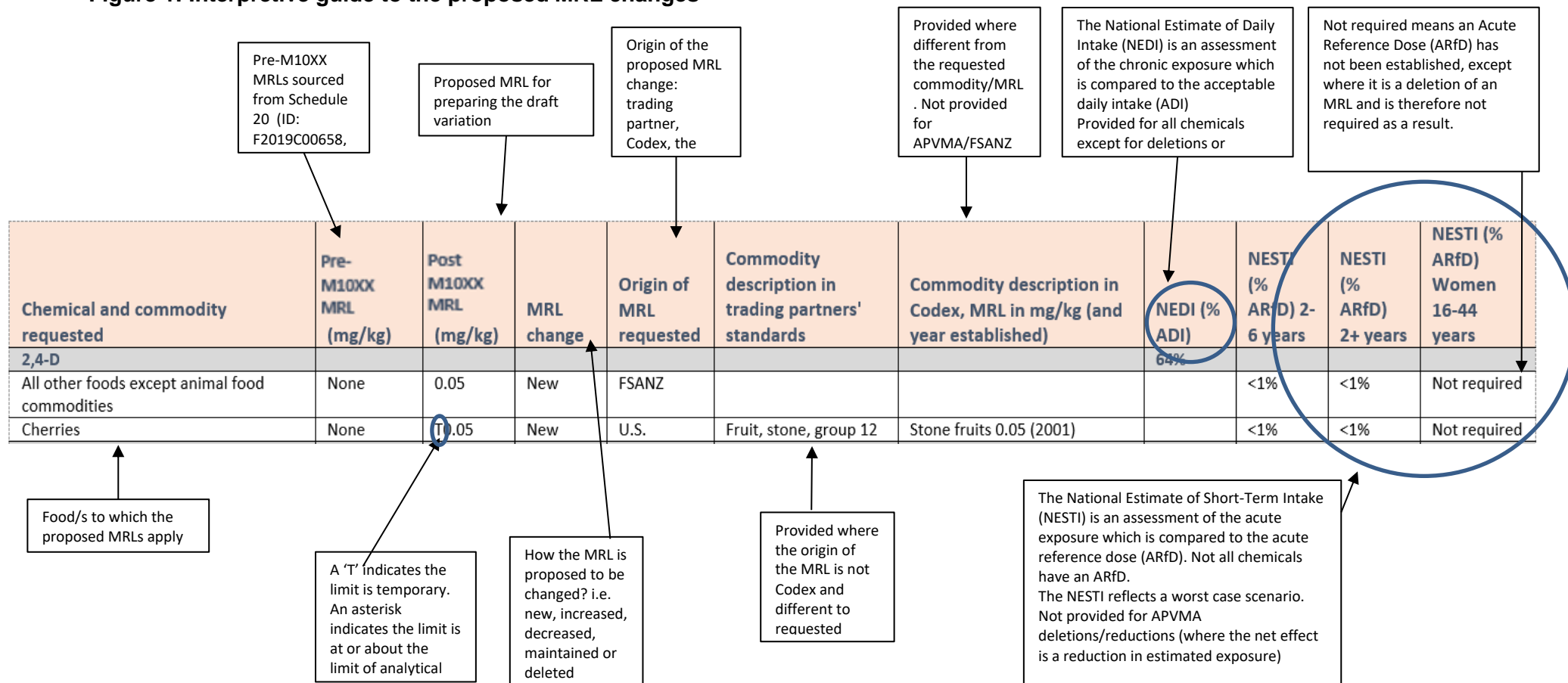
ARfDs for chemicals may be set for specific population sub-groups where necessary. Therefore, large portion food consumption data were derived for three population sub-groups: the entire population aged two years and above; children aged 2–6 years; and women of childbearing age (16–44 years).



# 7. Results of assessment

For all MRLs proposed in M1018, the dietary exposure estimates are at or below the relevant HBGVs, indicating that the residues pose negligible health and safety concerns to Australian consumers. The proposed MRL changes, origin of requests, comparisons with Codex MRLs and the dietary exposure estimates for the Australian population are listed in Table 1. Summaries of dietary exposure assessments for the proposed *All other foods except animal food commodities* MRLs for all chemicals considered are set out in the Appendix to this document. The Interpretive Guide (Figure 1) is only an **example** that provides relevant information to assist with interpreting Table 1.

**Figure 1: Interpretive guide to the proposed MRL changes**



**Table 1: Requested and proposed MRLs for the various commodities and their dietary exposure estimates<sup>1</sup>**

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
<b>2, 4-D</b>							14%			
Blueberries	None	0.2	New	U.S.	Blueberries, highbush	Berries and other small fruits 0.1 (2003)		<1%	<1%	<1%
Cranberry	None	0.5	New	U.S.		Berries and other small fruits 0.1 (2003)		<1%	<1%	<1%
Hops, dry	None	0.2	New	U.S.	Hop, dried cones			<1%	<1%	<1%
<b>Abamectin</b>							46%			
Cane berries	T0.1	0.2	New/Increased	Codex		Cane berries 0.2 (2019)		19%	5%	
Chive, dry	None	0.08	New	Codex		Chive, dry 0.08 (2019)		<1%	<1%	
Dried grapes (=currants, raisins and sultanas)	0.03	0.1	Increased	Codex		Grapes, dried (2019)		26%	5%	
Grapes	0.02	0.03	Increased	Codex		Grapes 0.03 (2019)		38%	41%	
Grape juice	0.02	0.05	New/Increased	Codex		Grape Juice 0.05 (2019)		45%	19%	
Orange oil, edible	None	0.1	New	Codex		Orange oil, edible 0.1 (2019)		4%	1%	
<b>Acephate</b>							11%			
Bean, seed, dry	None	3	New	U.S.				8%	6%	
Cranberry	None	0.5	New	Codex				2%	1%	
Lime	None	1	New	Argentina				8%	5%	
Mango	None	*0.01	New	EU				<1%	<1%	
<b>Acetamiprid</b>							4%			
Peppers, chili (dry)	None	2	New	Codex		Peppers chili, dried 2 (2012)		<1%	<1%	
Peppers, chili, sweet	None	0.2	New	Codex		Fruiting vegetables other than cucurbits (except sweetcorn and mushrooms) 0.2 (2012)		5%	2%	
Tomato	T0.1	None	Deleted	APVMA				Not required	Not required	Not required
<b>Acibenzolar-s-methyl</b>							Not required			
Cucumber	T0.5	None	Deleted	APVMA				Not required	Not required	Not required

<sup>1</sup> Note changes to residue definitions for Clothianidin and Thiamethoxam are not included in this table.

<sup>2</sup> The %ADI includes existing commodities listed in schedule 20 permitted to contain the chemical, not just the requested commodity(s).

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Squash, Summer [Zucchini]	T0.5	None	Deleted	APVMA				Not required	Not required	Not required
<b>Acifluorfen</b>							2%			
All other foods except animal food commodities	None	0.01	New	FSANZ				Not required	Not required	
Peanut	0.05	0.1	Increased	U.S.	Peanuts			Not required	Not required	
<b>Afidopyropen</b>							1%			
Citrus fruit	None	0.15	New	U.S.	Fruit, citrus, group 10-10			2%	1%	
Stone fruit	None	0.03	New	U.S.	Fruit, stone, group 12-12			<1%	<1%	
<b>Alpha-cypermethrin (see Cypermethrin)</b>										
<b>Aluminium phosphide (see phosphine)</b>										
<b>Ametoctradin</b>							<1%			
Tomato	1.5	2	Increased	EU		Fruiting vegetables other than cucurbits (except sweetcorn and mushroom) 1.5 (2013)		Not required	Not required	
<b>Azoxystrobin</b>							43%			
Bergamot	T50	None	Deleted	APVMA				Not required	Not required	
Burnet, Salad	T50	None	Deleted	APVMA				Not required	Not required	
Coriander (leaves, stems and roots)	T50	None	Deleted	APVMA				Not required	Not required	
Coriander, seed	T50	None	Deleted	APVMA				Not required	Not required	
Dill seed	T50	None	Deleted	APVMA				Not required	Not required	
Fennel, seed	T50	None	Deleted	APVMA				Not required	Not required	
Herbs	T50	70	Increased	Codex		Herbs 70 (2009)		Not required	Not required	
Herbs {except basil}	T50	None	Maintained (see request above)	APVMA				Not required	Not required	

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Kaffir lime leaves	T50	None	Deleted	APVMA				Not required	Not required	
Lemon grass	T50	None	Deleted	APVMA				Not required	Not required	
Lemon verbena (dry leaves)	T50	None	Deleted	APVMA				Not required	Not required	
Mexican tarragon	T50	None	Deleted	APVMA				Not required	Not required	
Peanut	0.05	0.2	Increased	U.S.	Peanuts	Peanut 0.2 (2009)		Not required	Not required	
Peppers chili, dried	3	30	New/Increased	Codex		Peppers chili, dried 30 (2009)		Not required	Not required	
Rose and dianthus (edible flowers)	T50	None	Deleted	APVMA				Not required	Not required	
Tea, Green, Black	T20	None	Deleted	APVMA				Not required	Not required	
<b>Bentazone</b>							2%			
All other foods except animal food commodities	None	0.1	New	FSANZ				Not required	Not required	
Dry beans, subgroup of	None	0.5	New/Increased	Codex		Dry beans, subgroup of 0.5 (2019)		Not required	Not required	
Dry peas, subgroup of	None	0.5	New/Increased	Codex		Dry peas, subgroup of 0.5 (2019)		Not required	Not required	
Mammalian fats (except milk fats)	None	*0.01	New	Codex		Mammalian fats (except milk fats) *0.01 (2019)		Not required	Not required	
<b>Benzovindiflupyr</b>							4%			
All other foods except animal food commodities	None	0.02	New	FSANZ				(Worst case - milk) 1%	(Worst case - milk) 1%	
Beans, dry (except soya beans, dry)	None	0.15	New	Codex		Dry beans, subgroup of (except soya bean (dry)) 0.15 (2019)		<1%	<1%	
Bulb onions	None	0.02	New	U.S.				<1%	<1%	
Green onions	None	0.4	New	U.S.				<1%	<1%	
Peas, dry	None	0.2	New	Codex		Dry peas, subgroup of 0.2 (2019)		1%	<1%	
Sugarcane	None	0.3	New	U.S.		Sugarcane 0.04 (2017)		2%	1%	
<b>Bifenthrin</b>							55%			
Herbs [except hops, dry]	T5	T0.5	Reduction	FSANZ				Not required	Not required	

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Peanut	None	0.05	New	U.S.				1%	<1%	
Pepper Chili, dried	0.5	5	Increased	Codex		Pepper chili, dried 5 (2011)		8%	12%	
<b>Boscalid</b>							68%			
Beans (dry)	None	2.5	New	U.S.	Pea and bean, dried shelled, except soybean, subgroup 6	Pulses 3 (2010)		Not required	Not required	Not required
Peppers, chili, dried	None	10	New	Codex		Peppers chili, dried 10 (2010)		Not required	Not required	Not required
<b>Carbendazim</b>							15%			
Peppers, chili	*0.1	2	Increased	Codex		Peppers chili 2 (2006)		2%	3%	
<b>Carboxin</b>							<1%			
Peanut	None	0.2	New	U.S.	Peanuts			Not required	Not required	
<b>Carfentrazone-ethyl</b>							3%			
All other foods except animal food commodities	None	0.05	New	FSANZ				Not required	Not required	
Blueberries	T*0.05	0.1	Increased	U.S.	Blueberries, highbush			Not required	Not required	
Peanut	None	0.1	New	U.S.	Peanuts			Not required	Not required	
<b>Chlorantranilprole</b>							1%			
Fruiting vegetables other than cucurbits	0.3	0.6	Increased	Codex		Fruiting vegetables other than cucurbits 0.6 (2009)		Not required	Not required	
Peppers chili, dried	1	5	Increased	Codex		Peppers chili, dried 5 (2009)		Not required	Not required	
<b>Chlorfenapyr</b>							11%			
All other foods except animal food commodities	None	0.02	New	FSANZ				Worst case (Pine-apple) 7%	Worst case (Grapes, Milk) 2%	
Garlic	None	*0.01	New	Codex		Garlic *0.01 (2019)		<1%	<1%	
Lemons and limes (including citron)	None	0.8	New	Codex		Lemons and limes (including citron) 0.8 (2019)		7%	8%	
Mammalian fats (except milk fats)	None	0.6	New	Codex		Mammalian fats (except milk fats) 0.6 (2019)		3%	2%	
Meat (from mammals other than marine mammals)	None	0.6	New	Codex		Meat (from mammals other than marine mammals) 0.6 (2019)		22%	13%	

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Melons, except watermelon	None	0.4	New	Codex		Melons, except watermelon 0.4 (2019)		45%	14%	
Milks	*0.01	0.03	Increased	Codex		Milks 0.03 (2019)		8%	3%	
Onion, Bulb	None	*0.01	New	Codex		Onion, Bulb *0.01 (2019)		<1%	<1%	
Oranges, sweet, sour	None	1.5	New	Codex		Oranges, Sweet, Sour, subgroup of (including Orange-like hybrids) 1.5 (2019)		3%	1%	
Papaya	None	0.3	New	Codex		Papaya 0.3 (2019)		34%	17%	
Peppers	None	0.3	New	Codex		Peppers 0.3 (2019)		9%	4%	
Peppers Chili, dried	0.01	3	Increased	Codex		Peppers Chili, dried 3 (2019)		<1%	<1%	
Persimmon, Japanese	None	1	New	Japan				40%	14%	
Potato	None	*0.01	New	Codex		Potato *0.01 (2019)		<1%	<1%	
Poultry, Edible offal of	*0.01	0.01	New	Codex		Poultry, Edible offal of 0.01 (2019)		<1%	<1%	
Poultry fats	None	0.02	New	Codex		Poultry fats 0.02 (2019)		<1%	<1%	
Poultry meat	None	0.02	New	Codex		Poultry meat 0.02 (2019)		<1%	<1%	
Soya bean (dry)	None	0.08	New	Codex		Soya bean (dry) 0.08 (2019)		<1%	<1%	
Soya bean oil, crude	None	0.4	New	Codex		Soya bean oil, crude 0.4 (2019)		<1%	<1%	
Tea, Green, Black	50	60	Increased	Codex		Tea, Green, Black (black, fermented and dried) 60 (2019)		34%	9%	
Tomato	None	0.4	New	Codex		Tomato 0.4 (2019)		28%	23%	
<b>Chlorpyrifos</b>							<b>36%</b>			
Bean, dry, seed	T*0.01	0.05	New/Increased	U.S.				<1%	<1%	
Cocoa Beans	None	*0.01	New	EU	Plants - Teas, coffee, herbal infusions, cocoa and carobs - Cocoa Beans			<1%	<1%	
Herbs	None	*0.01	New	EU	Herbs and edible flowers			<1%	<1%	
Peanut	0.05	0.2	Increased	U.S.				<1%	<1%	
Peppers, sweet (including pimento or pimiento)	T1	2	Increased	Codex		Peppers, sweet 2 (2003)		27%	7%	
<b>Chlorpyrifos-Methyl</b>							<b>87%</b>			
Herbs	None	*0.01	New	EU	Herbs and edible flowers			<1%	<1%	
Peppers chili, dried	None	10	New	Codex		Peppers chili, dried 10 (2010)		2%	2%	

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Peppers	None	1	New	Codex		Peppers 1 (2010)		<1%	<1%	
<b>Cyantraniliprole</b>							<b>91%</b>			
Mango	None	0.7	New	Codex		Mango 0.7 (2019)		Not required	Not required	
Strawberry	0.7	1.5	Increased	Codex		Strawberry 1.5 (2019)		Not required	Not required	
Wine-grapes	None	1	New	Codex		Wine-grapes 1 (2019)		Not required	Not required	
<b>Cyazofamid</b>							<b>&lt;1%</b>			
Bulb vegetables	None	2	New	U.S.	Bulb vegetables, group 3-07			Not required	Not required	
Garlic	None	2	New	U.S.	Bulb vegetables, group 3-07			Not required	Not required	
Green onions	None	6	New	Codex				Not required	Not required	
<b>Cyclaniliprole</b>							<b>8%</b>			
Brassica	None	1	New	U.S.				Not required	Not required	
Grape	None	0.8	New	U.S.				Not required	Not required	
Fruiting vegetables other than cucurbits	None	0.2	New	U.S.	Vegetable, fruiting group 8-10			Not required	Not required	
Pome fruit	Apple 0.1	0.3	New/Increased	U.S.				Not required	Not required	
Stone fruit	None	1	New	U.S.				Not required	Not required	
Tree nuts	None	0.03	New	U.S.				Not required	Not required	
<b>Cyhalothrin (includes Lambda)</b>							<b>4%</b>			
Coffee Beans	None	0.05	New	Brazil	Coffee	Coffee beans *0.01 (2016)		<1%	<1%	
Fruiting vegetables other than cucurbits	None	0.3	New	Codex		Fruiting vegetables other than cucurbits (except mushrooms) 0.3 (2009)		<1%	<1%	
Herbs	None	0.7	New	Codex		Basil 0.7 (2016)		1%	<1%	
Peppers chili, dried	None	3	New	Codex		Peppers chili, dried 3 (2009)		2%	4%	
<b>Cypermethrin</b>							<b>55%</b>			
Blueberries	0.5	0.8	New/Increased	U.S.	Blueberries, Highbush			13%	3%	

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Mango	None	0.7	New	Brazil	Mango	Mango 0.7 (2009)		61%	24%	
Peppers chili, dried	1	10	New/Increased	Codex		Peppers chili (dried) 10 (2009)		4%	6%	
Peppers, chili	1	2	Increased	Codex		Peppers chili 2 (2009)		1%	14%	
<b>Deltamethrin</b>							<b>71%</b>			
Cherries	None	0.1	New	EU	Cherry			<1%	<1%	
<b>Difenoconazole</b>							<b>62%</b>			
Peppers chili, dried	None	5	New	Codex				<1%	<1%	
Peppers, chili	None	0.9	New	Codex				<1%	<1%	
<b>Dithianon</b>							<b>12%</b>			
All other foods except animal food commodities	None	0.02	New	FSANZ				Worst case (Pine-apple, Milk) 2%	Worst case (Milk) 1%	
Hops, dry	None	100	New	EU		Hops, dry 300 (2014)		5%	3%	
<b>Diuron</b>							<b>33%</b>			
All other foods except animal food commodities	None	0.05	New	FSANZ				Not required	Not required	
Lime	None	1	New	Mexico				Not required	Not required	
<b>Ethiprole</b>							<b>18%</b>			
Coffee beans	None	0.07	New	Codex		Coffee beans 0.07 (2019)		3%	1%	
Coffee beans, Roasted	None	0.2	New	Codex		Coffee beans, Roasted 0.2 (2019)		8%	2%	
Edible offal (mammalian)	None	0.1	New	Codex		Edible offal (mammalian) 0.1 (2019)		1%	<1%	
Eggs	None	0.05	New	Codex		Eggs 0.05 (2019)		5%	2%	
Mammalian fats (except milk fats)	None	0.15	New	Codex		Mammalian fats (except milk fats) 0.15 (2019)		5%	2%	
Meat (from mammals other than marine mammals)	None	0.15	New	Codex		Meat (from mammals other than marine mammals) 0.15 (2019)		31%	16%	
Milk fats	None	0.5	New	Codex		Milk fats 0.5 (2019)		33%	12%	
Milks	None	0.01	New	Codex		Milks 0.01 (2019)		25%	6%	
Poultry, Edible offal of	None	0.05	New	Codex		Poultry, Edible offal of 0.05 (2019)		8%	2%	
Poultry fats	None	0.05	New	Codex		Poultry fats 0.05 (2019)		3%	1%	
Poultry meat	None	0.05	New	Codex		Poultry meat 0.05 (2019)		2%	7%	
Rice, Husked	None	1.5	New	Codex		Rice, Husked 1.5 (2019)		82%	19%	



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Rice, Polished	None	0.4	New	Codex		Rice, Polished 0.4 (2019)		58%	32%	
<b>Fenbuconazole</b>							9%			
Peanut	None	0.1	New	U.S.		Peanut 0.1 (2013)		Not required	Not required	
<b>Fenoxaprop-ethyl</b>							32%			
Peanut	None	0.05	New	U.S.	Peanuts			<1%	<1%	
<b>Fenpicoxamid</b>							<1%			
Banana	None	0.15	New	Codex		Banana 0.15 (2019)		Not required	Not required	
<b>Fenpyroximate</b>							43%			
Edible offal (mammalian)	None	0.5	New	Codex		Edible offal (mammalian) 0.5 (2019)		1%	1%	
Mammalian fats (except milk fats)	None	0.1	New	Codex		Mammalian fats (except milk fats) 0.1 (2019)		1%	1%	
Meat (from mammals other than marine mammals)	None	0.1	New	Codex		Meat (from mammals other than marine mammals) 0.1 (2019)		5%	3%	
Milks	None	*0.01	New	Codex		Milks *0.01 (2019)		4%	1%	
Tomatoes, subgroup of	None	0.3	New	Codex		Tomatoes, subgroup of 0.3 (2019)		42%	26%	
<b>Fluazifop-p-butyl</b>							59%			
Peanut	None	1.5	New	U.S.				<1%	<1%	
<b>Flubendiamide</b>							25%			
Peppers chili, dried	None	7	New	Codex				Not required	Not required	
<b>Fludioxonil</b>							54%			
Bulb onions	0.2	0.5	New/increased	Codex				Not required	Not required	
Cabbages, Head	None	0.7	New	Codex				Not required	Not required	
Carrot	None	1	New	Codex				Not required	Not required	
Celery	None	15	New	Codex				Not required	Not required	
Chick-pea (dry)	None	0.3	New	Codex				Not required	Not required	
Eggs	None	0.02	New	Codex				Not required	Not required	

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Guava	None	0.5	New	Codex				Not required	Not required	
Leaves of Brassicaceae (except radish leaves)	10	15	New/Increased	Codex				Not required	Not required	
Lentil (dry)	T0.1	0.3	New/Increased	Codex				Not required	Not required	
Mammalian fats (except milk fats)	None	0.02	New	Codex				Not required	Not required	
Poultry, Edible offal of	T*0.01	0.1	New	Codex				Not required	Not required	
Poultry fats	None	*0.01	New	Codex				Not required	Not required	
Poultry meat	T*0.01	*0.01	Maintained	Codex				Not required	Not required	
Soya bean (dry)	T0.1	0.2	Increased	Codex				Not required	Not required	
<b>Flumequine</b>							<1%			
Freshwater fish (Perch and Tilapia)	None	0.5	New	Taiwan	Freshwater Fish			Not required	Not required	
<b>Fluopyram</b>							79%			
Rice, Husked	None	1.5	New	Codex		Rice, husked 1.5 (2019)		<1%	<1%	
Rice, Polished	None	0.5	New	Codex		Rice, polished 0.5 (2019)		<1%	<1%	
<b>Fluoxastrobin</b>							<1%			
Peanut	None	0.02	New	U.S.				Not required	Not required	
<b>Flupyradifurone</b>							17%			
All other foods except animal food commodities	None	0.02	New	FSANZ				Worst case (Pine-apple) 1%	Worst case (All commodities) <1%	
Soya bean (dry)	None	1.5	New	U.S.		Soya bean (dry) 1.5 (2017)		1%	1%	
<b>Flusilazole</b>							7%			
Apple	None	0.3	New	Codex		Pome fruit 0.3 (2009)		85%	24%	
<b>Flutolanil</b>							4%			
Peanut	None	0.5	New	U.S.				Not required	Not required	
<b>Flutriafol</b>							82%			
Peanut	0.05	0.09	Increased	U.S.		Peanut 0.15 (2012)		<1%	<1%	

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<b>Fluxapyroxad</b>							<b>72%</b>			
Mango	0.5	0.6	Increased	Codex		Mango 0.6 (2019)		Not required	Not required	
Millet	None	3	New	U.S.				Not required	Not required	
Papaya	0.5	1	Increased	Codex		Papaya 1 (2019)		Not required	Not required	
Turmeric root	None	0.3	New	EU	Spices, root and rhizomes			Not required	Not required	
Valerian root	None	2	New	EU				Not required	Not required	
<b>Folpet</b>							<b>1%</b>			
Sweet peppers/bell peppers	None	*0.03	New	EU	Sweet peppers/bell peppers ; other fruiting vegetables			Not required	Not required	<1%
<b>Glyphosate</b>							<b>10%</b>			
Honey	None	0.2	New	APVMA/FS ANZ				Not required	Not required	
Tea, green, black (black, fermented and dried)	2	T20	Increased	APVMA				Not required	Not required	
<b>Halosulfuron-methyl</b>							<b>2%</b>			
Blueberry	None	0.05	New	U.S.				Not required	Not required	
<b>Hexythiazox</b>							<b>20%</b>			
Date	None	2	New	Codex		Date 2 (2010)		Not required	Not required	
<b>Imazalil</b>							<b>84%</b>			
Banana	None	3	New	Codex		Banana 3 (2019)		Not required	Not required	18%
Citrus fruits (except subgroups of oranges, sweet, sour and lemons and limes)	5	10	Increased	Codex		Citrus fruits (except subgroups of oranges, sweet, sour and lemons and limes) 5 (2019)		Not required	Not required	Not required
Edible offal (mammalian)	None	0.3	New	Codex		Edible offal (mammalian) 0.3 (2019)		Not required	Not required	<1%
Lemons and limes (including citron)	10	15	New/Increased	Codex		Lemons and limes (including citron) 15 (2019)		Not required	Not required	80%
Mammalian fats (except milk fats)	None	0.02	New	Codex		Mammalian fats (except milk fats) 0.02 (2019)		Not required	Not required	<1%

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Meat (from mammals other than marine mammals)	None	*0.02	New	Codex		Meat (from mammals other than marine mammals)*0.02 (2019)		Not required	Not required	<1%
Milks	None	*0.02	New	Codex		Milks *0.02 (2019)		Not required	Not required	1%
Poultry, Edible offal of	None	*0.02	New	Codex		Poultry, Edible offal of *0.02 (2019)		Not required	Not required	<1%
Poultry fats	None	*0.02	New	Codex		Poultry fats *0.02 (2019)		Not required	Not required	<1%
Poultry meat	None	*0.02	New	Codex		Poultry meat *0.02 (2019)		Not required	Not required	<1%
<b>Imidacloprid</b>							19%			
Blueberries	T0.1	3.5	Increased	U.S.	Blueberries, Highbush	Berries and other small fruits (except cranberries, grapes and strawberries) 5 (2009)	6%	1%		
Date	T1	0.05	Reduction	FSANZ/APV MA			Not required	Not required		
Tea, green, black (black, fermented and dried)	T10	50	Increased	Codex		Tea, green, black (black, fermented and dried) 50 (2016)	11%	3%		
Peanut	*0.05	0.45	Increased	U.S.	Peanuts	Peanut 1 (2009)	<1%	<1%		
Peppers	0.5	1	New/Increased	Codex		Peppers 1 (2004)	3%	1%		
Peppers chili, dried	0.5	10	New/Increased	Codex		Peppers chili, dried 10 (2006)	<1%	1%		
<b>Iprodione</b>							62%			
Peanut	0.05	0.5	Increased	U.S.	Peanuts			Not required	Not required	
<b>Isofetamid</b>							29%			
Beans with pods	None	0.6	New	Codex		Beans with pods 0.6 (2019)		<1%	<1%	
Cherries	None	4	New	Codex		Cherries 4 (2019)		<1%	<1%	
Peaches, subgroup of (including Apricots and Nectarine)	None	3	New	Codex		Peaches, subgroup of (including Apricots and Nectarine) 3 (2019)		3%	1%	
Peas with pods	None	0.6	New	Codex		Peas with pods 0.6 (2019)		<1%	<1%	
Plums (including fresh prunes)	None	0.8	New	Codex		Plums (including fresh prunes) 0.8 (2019)		<1%	<1%	
Pome fruits	None	0.6	New	Codex		Pome fruits 0.6 (2019)		<1%	<1%	

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Prunes, dried	None	3	New	Codex		Prunes, dried 3 (2019)		<1%	<1%	
<b>Kresoxim-methyl</b>							2%			
All other foods except animal food commodities	None	0.02	New	FSANZ				Not required	Not required	
Barley, similar grains, and pseudocereals with husks	0.1	0.15	New/Increased	Codex		Barley, similar grains, and pseudocereals with husks 0.15 (2019)		Not required	Not required	
Dried grapes (=currants, raisins and sultanas)	2	3	Increased	Codex		Dried grapes (=currants, raisins and sultanas) 3 (2019)		Not required	Not required	
Eggs	None	*0.02	New	Codex		Eggs *0.02 (2019)		Not required	Not required	
Fruiting vegetables, cucurbits	0.4	0.5	Increased	Codex		Fruiting vegetables, cucurbits 0.5 (2019)		Not required	Not required	
Leek	5	10	Increased	Codex		Leek 10 (2019)		Not required	Not required	
Mango	None	0.1	New	Codex		Mango 0.1 (2019)		Not required	Not required	
Olive oil, virgin	0.7	1	Increased	Codex		Olive oil, virgin 1 (2019)		Not required	Not required	
Peach	None	1.5	New	Codex		Peach 1.5 (2019)		Not required	Not required	
Poultry, Edible offal of	None	*0.02	New	Codex		Poultry, Edible offal of *0.02 (2019)		Not required	Not required	
Poultry fats	None	*0.02	New	Codex		Poultry fats *0.02 (2019)		Not required	Not required	
Persimmon, Japanese	None	5	New	Japan	Persimmon, Japanese			Not required	Not required	
<b>Lufenuron</b>							53%			
All other foods except animal food commodities	None	0.02	New	FSANZ				Not required	Not required	
Coffee beans	None	0.07	New	Codex		Coffee beans 0.07 (2019)		Not required	Not required	
Edible offal (mammalian)	T*0.01	0.15	Increased	Codex		Edible offal (mammalian) 0.15 (2019)		Not required	Not required	
Lime	None	0.4	New	Codex		Lime 0.4 (2019)		Not required	Not required	
Meat (from mammals other than marine mammals)	None	2	New	Codex		Meat (from mammals other than marine mammals) 2 (2019)		Not required	Not required	

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Maize	None	*0.01	New	Codex		Maize 0.01 (2019)		Not required	Not required	
Mammalian fats (except milk fats)	None	2	New	Codex		Mammalian fats (except milk fats) 2 (2019)		Not required	Not required	
Milk fats	None	5	New	Codex		Milk fats 5 (2019)		Not required	Not required	
Orange oil, edible	None	8	New	Codex		Orange oil, edible 8 (2019)		Not required	Not required	
Oranges, Sweet, Sour, subgroup of (including Orange-like hybrids)	None	0.3	New	Codex		Oranges, Sweet, Sour, subgroup of (including Orange-like hybrids) 0.3 (2019)		Not required	Not required	
Pome fruits	None	1	New	Codex		Pome fruits 1 (2019)		Not required	Not required	
<b>Malathion (See maldison)</b>							<b>73%</b>			
Peanut	None	8	New	U.S.	Peanuts			1%	1%	
<b>Mandipropamid</b>							<b>27%</b>			
Beans with pods	None	1	New	Codex		Beans with pods 1 (2019)		Not required	Not required	
<b>MCPA</b>							<b>1%</b>			
Hops, dry	None	*0.1	New	EU				<1%	<1%	
Herbs	None	*0.05	New	EU				<1%	<1%	
<b>MCPB</b>							<b>8%</b>			
Herbs	None	*0.05	New	EU				Not required	Not required	
<b>Mefentrifluconazole</b>							<b>17%</b>			
All other foods except animal food commodities	None	0.02	New	FSANZ				Not required	Not required	
Cereal grains, except wheat and corn	None	4	New	U.S.	EPA Crop Group 15 Cereal grains, except wheat and corn			Not required	Not required	
Cherries, fresh	None	4	New	U.S.	EPA Crop Group 12-12A Cherry subgroup			Not required	Not required	
Citrus oil	None	15	New	U.S.	Citrus oil			Not required	Not required	
Corn grain(field and pop)	None	0.01	New	U.S.	Corn grain(field and pop)			Not required	Not required	

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Legume vegetables, except lentil and soybean (succulent beans/peas without pod, podded beans and peas, dry beans and peas)	None	0.15	New	U.S.	EPA Cop Group 6 Legume vegetables, except lentil and soybean (succulent beans/peas without pod, podded beans and peas, dry beans and peas)			Not required	Not required	
Lentils, dry	None	2	New	U.S.	Lentils, dry			Not required	Not required	
Lemon/lime subgroup	None	1	New	U.S.	EPA Crop Group 10-10B Lemon/lime subgroup			Not required	Not required	
Grape, dried (raisin)	None	4	New	U.S.	Grape, dried (raisin)			Not required	Not required	
Oranges, sweet, sour	None	0.6	New	U.S.	EPA Crop Group 10-10A Orange subgroup			Not required	Not required	
Peach subgroup	None	1.5	New	U.S.	EPA Crop Group 12-12B Peach subgroup			Not required	Not required	
Peanut	None	0.01	New	U.S.	Peanut			Not required	Not required	
Pome fruit	1	1.5	New/increased	U.S.	EPA Crop Group 11-10 Pome fruit			Not required	Not required	
Plum subgroup	None	2	New	U.S.	EPA Crop Group 12-12C Plum subgroup			Not required	Not required	
Plum, prune, dried	None	4	New	U.S.	Plum, prune, dried			Not required	Not required	
Rapeseed subgroup	None	1	New	U.S.	EPA Crop Group 20A Rapeseed subgroup			Not required	Not required	
Small vine climbing fruit subgroup (grape subgroup)	None	1.5	New	U.S.	EPA Crop Group 13-07F Small vine climbing fruit subgroup (grape subgroup)			Not required	Not required	
Soybean seed, dry	None	0.4	New	U.S.	Soybean seed, dry			Not required	Not required	
Sugarbeet	None	0.6	New	U.S.	Sugarbeet			Not required	Not required	

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Sweet corn kernels/cob	None	0.03	New	U.S	Sweet corn kernels/cob			Not required	Not required	
Tree Nuts	None	0.06	New	U.S	EPA Crop Group 14-12 Tree Nuts			Not required	Not required	
Tuberous and corm subgroup (potato subgroup)	None	0.04	New	U.S	EPA Crop group 1C tuberous and corm subgroup (potato subgroup)			Not required	Not required	
Wheat grain	None	0.3	New	U.S	Wheat grain			Not required	Not required	
<b>Metalaxyl</b>							19%			
Blueberries	T0.5	2	New/Increased	U.S.				Not required	Not required	
Herbs	None	3	New	EU				Not required	Not required	
<b>Metalaxyl-M (see Metalaxyl)</b>										
<b>Metconazole</b>							<1%			
Peanut	None	0.04	New	U.S.	Peanuts			<1%	<1%	
<b>Methamidaphos (see also Acephate)</b>							11%			
Bean, dry	None	1	New	U.S	Bean, dry, seed			95%	61%	
Lime	None	0.01	New	Argentina	Lime			3%	2%	
Mango	None	*0.01	New	EU	Mango			12%	5%	
<b>Methomyl</b>							43%			
Peanut	*0.05	0.1	Increased	U.S.	Peanuts			1%	<1%	
<b>Metolachlor</b>							1%			
Peanut	*0.05	0.2	Increased	U.S.	Peanuts			Not required	Not required	
<b>Milbemectin</b>							2%			
Hops, dry	None	*0.2	New	EU	Hop, dried cones			Not required	Not required	<1%
<b>Myclobutanil</b>							13%			
Peppers chili, dried	None	20	New	Codex		Peppers chili, dried 20 (2015)		Not required	Not required	<1%
Peppers	None	3	New	Codex		Peppers 3 (2015)		Not required	Not required	<1%
<b>Norflurazon</b>							29%			
Edible offal (mammalian)	None	0.3	New	Codex		Edible offal (mammalian) 0.3 (2019)		<1%	<1%	
Eggs	None	*0.02	New	Codex		Eggs *0.02 (2019)		<1%	<1%	



Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Mammalian fats (except milk fats)	None	*0.02	New	Codex		Mammalian fats (except milk fats) *0.02 (2019)		<1%	<1%	
Meat (from mammals other than marine mammals)	None	*0.02	New	Codex		Meat (from mammals other than marine mammals) *0.02 (2019)		<1%	<1%	
Milks	None	*0.02	New	Codex		Milks *0.02 (2019)		<1%	<1%	
Poultry, Edible offal of	None	*0.02	New	Codex		Poultry, Edible offal of *0.02 (2019)		<1%	<1%	
Poultry fats	None	*0.02	New	Codex		Poultry fats *0.02 (2019)		<1%	<1%	
Poultry meat	None	*0.02	New	Codex		Poultry meat *0.02 (2019)		<1%	<1%	
<b>Novaluron</b>							51%			
Fruiting vegetables other than cucurbits	None	0.7	New	Codex		Fruiting vegetables other than cucurbits (except sweetcorn) 0.7 (2011)		Not required	Not required	
<b>Oxamyl</b>							10%			
All other foods except animal food commodities	None	0.05	New	FSANZ				Worst case (Pine-apple) 59%	Worst case (Milk) 17%	
Peanut	None	0.05	New	Codex				1%	<1%	
Peppers Chili, dried	None	*0.01	New	Codex		Peppers chili, dried *0.01 (2019)		<1%	<1%	
<b>Oxathiapiprolin</b>							<1%			
Basil	T10	10	Maintained	Codex		Basil 10 (2019)		Not required	Not required	
Cane berries	0.5	0.5	New/maintained	Codex		Cane berries 0.5 (2018)		Not required	Not required	
Citrus oil, edible	2	3	Increased	Codex		Citrus oil, edible 3 (2019)		Not required	Not required	
Grapes	None	0.9	New	Codex		Grapes 0.9 (2019)		Not required	Not required	
Leaves of Brassicaceae	15	15	Maintained	Codex		Leaves of Brassicaceae 10 (2019)		Not required	Not required	
Poultry fats	None	*0.01	New	Codex		Poultry fats *0.01 (2019)		Not required	Not required	
Poultry meat	None	*0.01	New	Codex		Poultry meat *0.01 (2019)		Not required	Not required	
Tuberous and corm vegetables	None	0.04	New	Codex		Tuberous and corm vegetables 0.04 (2019)		Not required	Not required	

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Young shoots	None	2	New	Codex		Young shoots 2 (2019)		Not required	Not required	
<b>Paraquat</b>							43%			
Peanut	*0.01	*0.05	Increased	U.S.	Peanut			3%	1%	
<b>Pendimethalin</b>							1%			
Peanut	None	0.1	New	U.S.				<1%	<1%	
Sweet peppers/bell peppers	None	*0.05	New	EU				<1%	<1%	
<b>Permethrin</b>							Not required			
Leafy vegetables (except Lettuce, head; Lettuce, leaf)	T5	None	Deleted	APVMA				Not required	Not required	Not required
Lemon verbena (fresh weight)	T5	None	Deleted	APVMA				Not required	Not required	Not required
<b>Phorate</b>							31%			
Peanut	None	0.1	New	U.S.	Peanut			5%	3%	
<b>Phosphine</b>							4%			
Peanut	*0.01	0.1	Increased	U.S.	Peanut			1%	1%	
<b>Picoxystrobin</b>							<1%			
Peanuts	None	0.05	New	U.S.	Peanut			<1%	<1%	
Rice	None	0.05	New	India	Rice			5%	3%	
Dry beans, subgroup of	None	0.06	New	Codex		Dry beans (subgroup) 0.06 (2018)		<1%	<1%	
Wheat	None	0.04	New	Codex		Wheat 0.04 (2018)		<1%	<1%	
<b>Pirimiphos - methyl</b>							53%			
All other foods except animal food commodities	None	0.02	New	FSANZ				Worst case (Pine-apple) 1%	Worst case (All commodities) <1%	
Cocoa beans	None	*0.05	New	EU				<1%	<1%	
<b>Profenofos</b>							1%			
Coffee beans	None	0.04	New	Codex		Coffee beans 0.04 (2019)		<1%	<1%	
<b>Prohexadione-calcium</b>							<1%			
Peanut	None	1	New	U.S.	Peanut			Not required	Not required	
<b>Propamocarb</b>							8%			
Edible offal (mammalian)	*0.01	1.5	Increased	Codex		Edible offal (mammalian) 1.5 (2019)		<1%	<1%	

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Mammalian fats (except milk fats)	None	0.03	New	Codex		Mammalian fats (except milk fats) 0.03 (2019)		<1%	<1%	
Meat (from mammals other than marine mammals)	*0.01	0.03	Increased	Codex		Meat (from mammals other than marine mammals) 0.03 (2019)		<1%	<1%	
Herbs and edible flowers	None	30	New	EU	Herbs and edible flowers			1%	<1%	
<b>Propiconazole</b>							<b>42%</b>			
Lemons and limes (including citron)	7	10	Increased	Codex		Lemons and limes (including citron) (subgroup) 10 (2019)		1%	1%	
Mandarins, subgroup of (including mandarin-like hybrids)	7	10	Increased	Codex		Mandarins (including mandarin-like hybrids) (subgroup)		3%	1%	
Orange oil, edible	None	1850	New	Codex		Orange oil, edible 1850 (2019)		2%	1%	
Oranges, Sweet, Sour, subgroup of (including Orange-like hybrids)	7	10	Increased	Codex		Oranges, sweet, sour (including Orange-like hybrids) (subgroup) 10 (2019)		5%	3%	
Pineapple	0.05	2	Increased	Codex		Pineapple (2 (2019)		7%	1%	
<b>Pyraclostrobin</b>							<b>33%</b>			
Avocado	None	0.2	New	Codex		Avocado 0.2 (2019)		Not required	Not required	3%
Beans with pods (except common bean)	None	0.3	New	Codex		Beans with pods (except common bean) 0.3 (2019)		Not required	Not required	1%
Celery	None	1.5	New	Codex		Celery 1.5 (2019)		Not required	Not required	55%
Common bean (pods and/or immature seeds)	None	0.6	New	Codex		Common bean (pods and/or immature seeds) 0.6 (2019)		Not required	Not required	2%
Common beans (succulent seeds)	None	0.3	New	Codex		Common beans (succulent seeds) 0.3 (2019)		Not required	Not required	1%
Mammalian fats (except milk fats)	None	0.5	New	Codex		Mammalian fats (except milk fats) 0.5 (2019)		Not required	Not required	1%
Mango	0.1	0.6	Increased	Codex		Mango 0.6 (2019)		Not required	Not required	17%
Olive oil, virgin	None	0.07	New	Codex		Olive oil, virgin 0.07 (2019)		Not required	Not required	<1%
Peanut	0.04	0.05	Increased	U.S.	Peanut	Peanut *0.02 (2006)		Not required	Not required	<1%
Peas with pods	None	0.3	New	Codex		Peas with pods 0.3 (2019)		Not required	Not required	<1%

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Pineapple	None	0.3	New	Codex		Pineapple 0.3 (2019)		Not required	Not required	20%
Rice	*0.01	1.5	New/Increased	Codex		Rice 1.5 (2019)		Not required	Not required	11%
Rice, Husked	*0.01	0.09	New/Increased	Codex		Rice, Husked 0.09 (2019)		Not required	Not required	11%
Rice, Polished	*0.01	0.03	New/Increased	Codex		Rice, Polished 0.03 (2019)		Not required	Not required	11%
Succulent peas without pods, subgroup of	None	0.08	New	Codex		Succulent peas without pods, subgroup of 0.08 (2019)		Not required	Not required	<1%
Sugar cane	None	0.08	New	Codex		Sugar cane 0.08 (2019)		Not required	Not required	<1%
Tea, Green, Black (black, fermented and dried)	None	6	New	Codex		Tea, Green, Black (black, fermented and dried) 6 (2019)		Not required	Not required	3%
Witloof chicory (sprouts)	None	0.09	New	Codex		Witloof chicory (sprouts) 0.09 (2019)		Not required	Not required	<1%
<b>Pyraflufen-ethyl</b>							<1%			
Hops, dry	None	*0.1	New	EU	Hops			<1%	<1%	
<b>Pyrethrins</b>							56%			
Herbs and edible flowers	None	1	New	EU	Herbs and edible flowers			<1%	<1%	
<b>Pyriofenone</b>							4%			
Bush berries	None	1.5	New	Codex		Bush berries 1.5 (2019)		Not required	Not required	
Cane berries	None	0.9	New	Codex		Cane berries 0.9 (2019)		Not required	Not required	
Dried grapes (currants, raisins and sultanas)	2	2.5	Increased	Codex		Dried grapes (currants, raisins and sultanas) 2.5 (2019)		Not required	Not required	
Low growing berries	None	0.5	New	Codex		Low growing berries 0.5 (2019)		Not required	Not required	
<b>Pyriproxyfen</b>							11%			
Peppers Chili, dried	1	6	New/Increased	Codex		Peppers chili, dried 6 (2019)		Not required	Not required	
Peanut	New	0.2	New	U.S.	Peanut			Not required	Not required	
<b>Pyroxasulfone</b>							<1%			
Peanut	None	0.3	New	U.S.	Peanut			Not required	Not required	
<b>Ractopamine</b>							3%			

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Cattle fat	None	0.01	New	Codex		Cattle fat 0.01 (2012)		2%	<1%	
Cattle kidney	None	0.09	New	Codex		Cattle kidney 0.09 (2012)		3%	2%	
Cattle liver	None	0.04	New	Codex		Cattle liver 0.04 (2012)		1%	<1%	
Cattle muscle	None	0.01	New	Codex		Cattle muscle 0.01 (2012)		10%	5%	
<b>Sethoxydim</b>							95%			
Beans, Dry	None	25	New	U.S.	Pea and bean, dried shelled, except soybean, subgroup 6C			Not required	Not required	
Citrus fruits	None	0.5	New	U.S.	Fruit, citrus, group 10-10			Not required	Not required	
Peaches	None	0.2	New	U.S.	Peach			Not required	Not required	
Peanut	3	25	Increased	U.S.	Peanut			Not required	Not required	
<b>Simazine</b>							32%			
Cranberry	None	0.25	New	U.S.	Cranberry			Not required	Not required	
<b>Spinosad</b>							43%			
Peanut	None	0.02	New	U.S.	Peanut			Not required	Not required	
<b>Sulfoxaflor</b>							16%			
Edible offal (mammalian)	0.5	1	Increased	Codex		Edible offal (mammalian) 1 (2019)		<1%	<1%	
Mammalian fats (except milk fats)	None	0.2	New	Codex		Mammalian fats (except milk fats) 0.2 (2019)		<1%	<1%	
Meat (from mammals other than marine mammals)	0.2	0.4	Increased	Codex		Meat (from mammals other than marine mammals) 0.4 (2019)		2%	<1%	
Milks	0.1	0.3	Increased	Codex		Milks 0.3 (2019)		10%	3%	
Poultry meat	*0.01	0.7	Increased	Codex		Poultry meat 0.7 (2019)		4%	1%	
Rice	*0.01	7	Increased	Codex		Rice 7 (2019)		20%	6%	
Rice, Husked	*0.01	1.5	Increased	Codex		Rice, Husked (1.5 (2019)		2%	<1%	
Rice, Polished	*0.01	1	Increased	Codex		Rice, Polished 1 (2019)		3%	1%	
Sorghum	*0.01	0.2	Increased	Codex		Sorghum 0.2 (2019)		<1%	<1%	
Tree nuts	0.02	0.03	Increased	Codex		Tree nuts 0.03 (2019)		<1%	<1%	
<b>Sulfuryl Fluoride</b>							14%			

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
All other foods except animal food commodities	None	0.02	New	FSANZ				Worst case (Pine-apple, Milk) 1%	Worst case (All commodities) <1%	
Peanut	7	15	Increased	U.S.	Peanut			12%	5%	
<b>Tebuconazole</b>							16%			
Pear	None	1	New	Codex		Pear 1 (2012)		6%	4%	
Peppers, sweet (including pimento or pimienta)	None	1	New	Codex		Peppers, sweet 1 (2012)		5%	1%	
<b>Tebufenozide</b>							36%			
Blueberries	None	3	New	U.S.	Blueberries, Highbush	Blueberries 3 (2004)		2%	<1%	
<b>Thiacloprid</b>							22%			
Peppers, sweet (including pimento or pimienta)	None	3	New	Codex		Peppers, sweet (including pimento or pimienta) 1 (2007)		46%	14%	
<b>Thiamethoxam</b>							12%			
Fruiting vegetables other than cucurbits	T0.5	0.7	Increased	Codex		Fruiting vegetables other than cucurbits 0.7 (2011)		2%	1%	
Peppers, chili, dried	None	7	New	Codex		Peppers chili, dried 7 (2011)		1%	<1%	
<b>Thiophanate-methyl</b>							11%			
All other foods except animal food commodities	None	0.1	New	FSANZ				Not required	Not required	
Peanut	None	0.1	New	U.S.				Not required	Not required	
<b>Tioxazafen</b>							<1%			
Cotton seed	None	*0.01	New	Codex		Cotton seed		<1%	<1%	
Edible offal (mammalian)	None	0.03	New	Codex		Edible offal (mammalian)		<1%	<1%	
Eggs	None	*0.02	New	Codex		Eggs		<1%	<1%	
Maize	None	*0.01	New	Codex		Maize		<1%	<1%	
Mammalian fats (except milk fats)	None	0.03	New	Codex		Mammalian fats (except milk fats)		<1%	<1%	
Meat (from mammals other than marine mammals)	None	0.02	New	Codex		Meat (from mammals other than marine mammals)		<1%	<1%	
Milks	None	0.02	New	Codex		Milks		<1%	<1%	
Poultry, Edible offal of	None	*0.02	New	Codex		Poultry, Edible offal of		<1%	<1%	
Poultry fats	None	*0.02	New	Codex		Poultry fats		<1%	<1%	

Chemical and commodity requested	Pre-M1018 MRL (mg/kg)	Post M1018 MRL (mg/kg)	MRL change	Origin of MRL requested	Commodity description in trading partners standards	Commodity description in Codex, MRL in mg/kg (and year established)	NEDI (% ADI) <sup>2</sup>	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Poultry meat	None	*0.02	New	Codex		Poultry meat		<1%	<1%	
Soya bean (dry)	None	0.04	New	Codex		Soya bean (dry)		<1%	<1%	
Triflumezopyrim							<1%			
Rice	None	0.2	New	Codex		Rice 0.2 (2018)		<1%	<1%	
Zeta-Cypermethrin (see Cypermethrin)							55%			
Zinc phosphide see Phosphine										
Zineb see Dithiocarbamates										
Ziram see Dithiocarbamates										
Zoxamide							1%			
Grapes	None	5	New	FSANZ/EU				Not required	Not required	

## **7.1 Appendix – Dietary exposure assessment summaries for the proposed *All other foods except animal food commodities* MRLs**

All assessments for the chemicals considered follow the principles for establishing *All other foods except animal food commodities* MRLs as set out by FSANZ in 2016<sup>1</sup>.

This appendix relates to all chemicals requested for inclusion in proposal M1018. It should be noted that not all the requested chemicals progressed to the stage of dietary exposure estimates during the risk assessment process and therefore some requested chemicals were not included in the draft Amendment. Chemicals excluded from M1018 may still be listed in this appendix to indicate that they were also not considered for establishment of an *All other foods except animal food commodities* MRL or indicate that a review of an existing *All other foods except animal food commodities* MRL was conducted.

It is important to note that if the registered use of a chemical on a specific commodity is proposed to be removed from schedule 20 (for example, by the APVMA) and a previous harmonisation MRL request for that commodity/chemical combination has been agreed, the commodity and MRL will remain in schedule 20. Similarly, if a chemical is being deleted from the APVMA MRL Standard, and previous harmonisation requests for the chemical have been received, these will also remain in schedule 20.

However, if a chemical had a registered use in Australia and FSANZ had established an *All other foods except animal food commodities* MRL and the chemical has subsequently been removed from schedule 20, the *All other foods except animal food commodities* MRL may also be removed. The principles for establishing an *All other foods except animal food commodities* MRL will be re-applied and FSANZ will propose the existing MRL remain, be reduced or deleted. Any MRL for specific commodities included in schedule 20 under a previous harmonisation request for that chemical will remain in schedule 20 (unless other considerations warrant them being removed or amended).

FSANZ has assumed in the National Estimate of Daily Intake (NEDI) calculations that 10% of this consumption amount would be likely to contain residues. This assumption does not apply to calculations of the National Estimated Short-Term Intake (NESTI).

The relevant Health-Based Guidance Values for the NEDI and NESTI are the Acceptable Dietary Intake (ADI) and the Acute Reference Dose (ARfD) respectively.



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## 2,4-D

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for 2,4-D is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Abamectin

An MRL of 0.01 mg/kg for *All other foods except animal food commodities* for abamectin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Acephate

Acephate has been nominated and prioritised for review by the APVMA and is therefore excluded from consideration of an *All other foods except animal food commodities* MRL as per the principles established in P1027.

## Acetamiprid

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for acetamiprid is currently listed in Schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Acibenzolar s-methyl

It was not considered appropriate at this time to establish an *All other foods except animal food commodities* MRL based on the APVMA's proposed deletions of permitted plant uses of acibenzolar s-methyl in Australia. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Acifluorfen

An *All other foods except animal food commodities* MRL of 0.01 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (as indicated by * on existing MRLs)
Lowest plant commodity MRL	T*0.01 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is T*0.01 mg/kg (chia seed) to 0.1 mg/kg (Legume vegetables; Pulses)
Lowest plant commodity MRL that is not the LOD	0.1 mg/kg
Most relevant reference point to minimise off-label use	0.01 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	45.2 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	<2 % of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.01 mg/kg

<b>Considerations</b>	<b>Comments</b>
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	2% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.01 mg/kg represents a contribution of 19% to total dietary exposure which is within the 20% target and is considered acceptable.
Acute dietary exposure assessment (NESTI)	An acute dietary exposure assessment is considered unnecessary for acifluorfen because the APVMA and JMPR has not established an ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.01 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## **Afidopyropen**

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for afidopyropen is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Alpha-cypermethrin**

See cypermethrin

## **Aluminum phosphide**

See phosphine

## **Ametoctradin**

An MRL of 0.2 mg/kg for *All other foods except animal food commodities* for ametoctradin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Azoxystrobin**

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for azoxystrobin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Bentazone**

An *All other foods except animal food commodities* MRL of 0.1 mg/kg is proposed based on the following considerations:

<b>Considerations</b>	<b>Comments</b>
Limit of determination (LOD)	0.01 to 0.1 mg/kg (as indicated by * on existing MRLs)
Lowest plant commodity MRL	*0.01 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is *0.01 (Sweet corn (corn-on-the-cob)) to 3 (Peas)

<b>Considerations</b>	<b>Comments</b>
Lowest plant commodity MRL that is not the LOD	T0.1 mg/kg
Most relevant reference point to minimise off-label use	0.1 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	45.1 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	<2% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.1 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	2% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.1 mg/kg represents a contribution of 21% to total dietary exposure which is slightly higher than the 20%, however, is considered acceptable.
Acute dietary exposure assessment (NESTI)	An acute dietary exposure assessment is considered unnecessary for bentazone because the APVMA and JMPR consider an ARfD unnecessary.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.1 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Benzovindiflupyr

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

<b>Considerations</b>	<b>Comments</b>
Limit of determination (LOD)	*0.01 mg/kg (as indicated by * on existing MRLs).
Lowest plant commodity MRL	0.01 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 0.01 (Peanut, Wheat) to 1 (Grapes).
Lowest plant commodity MRL that is not the LOD	0.01 mg/kg
Most relevant reference point to minimise off-label use	0.04 mg/kg. Although the onion, bulb and potato MRLs are lower, the chemical is applied to leaves and not to the commodity which is underground, making it unsuitable.
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	38.1 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	4% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	4% of the ADI

<b>Considerations</b>	<b>Comments</b>
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 3% to total dietary exposure which is within the 20% target, and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worst case - Pineapple; Milk), 2% of the ARfD. Population aged 2 years and above (worst case - Milk), 1% of the ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## **Bifenthrin**

An MRL of 0.03 mg/kg for *All other foods except animal food commodities* for bifenthrin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Boscalid**

An MRL of 0.5 mg/kg for *All other foods* for boscalid is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Carbendazim**

Carbendazim was excluded from consideration of an *All other foods except animal food commodities* MRL as it is a schedule 7 only poison.

## **Carboxin**

Carboxin was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## **Carfentrazone-ethyl**

Carfentrazone-ethyl was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## **Chlorantraniliprole**

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for chlorantraniliprole is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Chlorfenapyr

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	*0.01 mg/kg (as indicated by * on existing MRLs).
Lowest plant commodity MRL	0.01 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is *0.01 mg/kg (Garlic; Onion, bulb; Potato) to 60 mg/kg [Tea, Green, Black (black, fermented and dried)].
Lowest plant commodity MRL that is not the LOD	0.05 mg/kg
Most relevant reference point to minimise off-label use	0.05 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	39.35 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	9% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	10% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 3% to total dietary exposure which within the 20% target, and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worst case Pineapple), 7% of the ARfD. Population aged 2 years and above (worst case Grapes; Milk), 2% of the ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Chlorpyrifos

Chlorpyrifos has been nominated and prioritised for review by the APVMA and is therefore excluded from consideration of an *All other foods except animal food commodities* MRL as per the principles established in P1027.

## Chlorpyrifos-methyl

Chlorpyrifos-methyl was excluded from consideration of an *All other foods except animal food commodities* MRL because the NEDI from existing permissions is >80% of the ADI.



## Cyantraniliprole

An MRL of 0.05 mg/kg for *All other foods* for cyantraniliprole is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Cyazofamid

An MRL of 0.04 mg/kg for *All other foods except animal food commodities* for cyazofamid is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Cyclaniliprole

Cyclaniliprole was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Cyhalothrin (all isomers)

Lambda-cyhalothrin (a cyhalothrin isomer) was excluded from consideration of an *All other foods except animal food commodities* MRL because the NEDI from existing permissions for the lambda-cyhalothrin isomer is >80% of the ADI.

## Cypermethrin

An MRL of \*0.01 mg/kg for *All other foods* for cypermethrin was established by the APVMA and is listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Deltamethrin

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for deltamethrin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Difenoconazole

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for difenoconazole is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Dithianon

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (as indicated by * on existing MRLs in European Union (EU) Pesticide Database)
Lowest plant commodity MRL	2 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 2 mg/kg (Fruit, except blueberries) to 7 mg/kg (Blueberries)
Lowest plant commodity MRL that is not the LOD	2 mg/kg

<b>Considerations</b>	<b>Comments</b>
Most relevant reference point to minimise off-label use	2 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	43.4 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	75% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	76% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 1% to total dietary exposure which is within the 20% target and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worst case (Pineapple, Milk), 2% of the ARfD. Population aged 2 years and above (worst case (Milk), 1% of the ARfD)
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Diuron

An *All other foods except animal food commodities* MRL of 0.05 mg/kg is proposed based on the following considerations:

<b>Considerations</b>	<b>Comments</b>
Limit of determination (LOD)	0.05 mg/kg (indicated by * on existing MRLs)
Lowest plant commodity MRL	*0.05 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is *0.05 (Pulses) to 2 (Asparagus)
Lowest plant commodity MRL that is not the LOD	0.1 mg/kg
Most relevant reference point to minimise off-label use	0.1 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	42.4 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	30% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.05 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	33% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to	An <i>All other foods except animal commodities</i> MRL of 0.05 mg/kg represents a contribution of 9% to total

<b>Considerations</b>	<b>Comments</b>
total chronic dietary exposure	dietary exposure which is within the 20% target and is considered acceptable.
Acute dietary exposure assessment (NESTI)	An acute dietary exposure assessment is considered unnecessary for diuron because the APVMA consider an ARfD unnecessary.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.05 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Ethiprole

Ethiprole was excluded from consideration of an *All other foods except animal food commodities* MRL as it is not listed in Schedule 20, and there is no registered use of ethiprole in Australia.

## Fenbuconazole

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for fenbuconazole is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Fenoxaprop-ethyl

Fenoxaprop-ethyl was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Fenpicoxamid

Fenpicoxamid was excluded from consideration of an *All other foods except animal food commodities* MRL as it is not currently listed in Schedule 20, and there is no registered use of fenpicoxamid in Australia.

## Fenpyroximate

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for fenpyroximate is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Fluazifop-p-butyl

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for fluazifop-p-butyl is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Flubendiamide

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for flubendiamide is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Fludioxonil

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for fludioxonil is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Flumequine

Flumequine was excluded from consideration of an *All other foods except animal food commodities* MRL as it is a veterinary medicine and is therefore excluded from consideration according to the principles established in P1027.

## Fluopyram

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for fluopyram is currently listed in schedule 20. This MRL was increased to 0.2 as part of an APVMA amendment to Schedule 20. The new limit was agreed to and will be gazetted prior to M1018.

## Fluoride (see Sulfuryl fluoride)

## Fluoxastrobin

Fluoxastrobin was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Flupyradifurone

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (as indicated by * on existing MRLs)
Lowest plant commodity MRL	*0.01 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 0.01 mg/kg (Macadamia nuts) to 10 mg/kg (Hops, dry)
Lowest plant commodity MRL that is not the LOD	0.02 mg/kg
Most relevant reference point to minimise off-label use	0.02 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	37.9 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	17% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg

<b>Considerations</b>	<b>Comments</b>
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	17% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of <1% to total dietary exposure which is within the 20% target and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worst case - Pineapple), 1% of the ARfD. Population aged 2 years and above (worst case - milk), <1% of the ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## **Flusilazole**

Flusilazole was excluded from consideration of an *All other foods except animal food commodities* MRL as it is not listed in Schedule 20, and there is no registered use of flusilazole in Australia.

## **Flutolanil**

Flutolanil was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## **Flutriafol**

An MRL of 0.5 mg/kg for *All other foods except animal food commodities* for flutriafol is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Fluxapyroxad**

An MRL of 0.1 mg/kg for *All other foods* for fluxapyroxad is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Folpet**

Folpet was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## **Glyphosate**

An MRL of 0.2 mg/kg for *All other foods except animal food commodities* for glyphosate is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Halosulfuron-methyl

Halosulfuron-methyl was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Hexythiazox

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for hexythiazox is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Imazalil

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for imazalil is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Imidacloprid

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for imidacloprid is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Iprodione

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for iprodione is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Isofetamid

Isofetamid was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Kresoxim-Methyl

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (as indicated by * on existing MRLs in EU Pesticide Database)
Lowest plant commodity MRL	0.02 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 0.02 (Rice) to 15 (Grape leaves; Tea, Green, Black).
Lowest plant commodity MRL that is not the LOD	0.02 mg/kg
Most relevant reference point to minimise off-label use	0.05 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except</i>	33.3 g/kg bw/day

<b>Considerations</b>	<b>Comments</b>
<i>animal commodities</i>	
Chronic dietary exposure (NEDI) considering existing permissions only	2% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	2% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 1% to total dietary exposure which is within the 20% target.
Acute dietary exposure assessment (NESTI)	An acute dietary exposure assessment is considered unnecessary for kresoxin-methyl because the APVMA has not established an ARfD and JMPR consider an ARfD unnecessary.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Lufenuron

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

<b>Considerations</b>	<b>Comments</b>
Limit of determination (LOD)	0.01 mg/kg (as indicated by * on existing MRLs)
Lowest plant commodity MRL	*0.01 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is T0.2 [Cotton seed] to T0.5 (Cotton seed oil, crude).
Lowest plant commodity MRL that is not the LOD	T0.2 mg/kg
Most relevant reference point to minimise off-label use	T0.2 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	42.5 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	53% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	53% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 1% to total dietary exposure which is within the 20% target.
Acute dietary exposure assessment (NESTI)	An acute dietary exposure assessment is considered unnecessary for lufenuron because the APVMA has not established an ARfD and JMPR consider an ARfD unnecessary.

Considerations	Comments
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Magnesium phosphide (see phosphine)

## Malathion (see maldison)

### Maldison

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for maldison is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

### Mandipropamid

An MRL of 0.5 mg/kg for *All other foods except animal food commodities* for mandipropamid is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

### MCPA

MCPA was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

### MCPB

MCPB was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Mefentrifluconazole

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (as indicated by * on existing MRLs in EU Pesticide Database)
Lowest plant commodity MRL	1 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 1 mg/kg [Apple; Grapes] to 3 mg/kg (Dried grapes (currants, raisins and sultanas)).
Lowest plant commodity MRL that is not the LOD	0.03 mg/kg mg/kg
Most relevant reference point to minimise off-label use	0.03 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	36.4 g/kg bw/day



<b>Considerations</b>	<b>Comments</b>
Chronic dietary exposure (NEDI) considering existing permissions only	17% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	17% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 1% to total dietary exposure which is within the 20% target.
Acute dietary exposure assessment (NESTI)	An acute dietary exposure assessment is considered unnecessary for lufenuron because the APVMA has not established an ARfD and JMPR consider an ARfD unnecessary.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## **Metalaxyl**

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for metalaxyl is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Metalaxyl-M**

See metalaxyl

## **Metconazole**

Metconazole was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## **Methomyl**

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for methomyl is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Metolachlor**

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for metolachlor is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Milbemectin

Milbemectin was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Myclobutanil

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for myclobutanil is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Norflurazon

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for norflurazon is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Novaluron

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for novaluron is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Oxamyl

An *All other foods except animal food commodities* MRL of 0.05 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.02-0.05 mg/kg (indicated by * in existing S20 MRLs)
Lowest plant commodity MRL	0.02 mg/kg
Magnitude of existing plant commodity MRLs	The range of MRLs is *0.02 (Cereal grains) to 1 (Peppers, Sweet).
Lowest plant commodity MRL that is not the LOD	0.2 mg/kg
Most relevant reference point to minimise off-label use	0.2 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	41.9 g/kg bw/day (FSANZ has assumed in the NEDI calculations that 10% of this consumption amount would be likely to contain residues)
Chronic dietary exposure (NEDI) considering existing permissions only	8% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>2</sup>	0.05 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	10% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.05 mg/kg represents a contribution of 23% to total dietary exposure which is slightly above the 20% target, and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worst case – Pineapple), 59% of the ARfD. Population aged 2 years and above (worst case – milk), 17% of the ARfD.

Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.05 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.
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## **Oxathiapiprolin**

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for oxathiapiprolin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Paraquat dichloride (paraquat)**

Paraquat was excluded from consideration of an *All other foods except animal food commodities* MRL as it is a Schedule 7 only poison.

## **Pendimethalin**

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for pendimethalin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Permethrin**

An MRL of 0.05mg/kg for *All other foods except animal food commodities* for permethrin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Phorate**

Phorate has been nominated and prioritised for review by the APVMA and is therefore excluded from consideration of an *All other foods except animal food commodities* MRL as per the principles established in P1027.

## **Phosphine**

An MRL of \*0.01mg/kg for *All other foods except animal food commodities* for phosphine is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Picoxystrobin**

Picoxystrobin was excluded from consideration of an *All other foods except animal food commodities* MRL as it is not listed in Schedule 20, and there is no registered use of picoxystrobin in Australia.

## Pirimiphos–methyl

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 – 0.05 mg/kg (as indicated by * on existing MRLs in EU Pesticide Database)
Lowest plant commodity MRL	1 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 1 mg/kg (Rice, polished) to 20 (Cereal bran, unprocessed)
Lowest plant commodity MRL that is not the LOD	1 mg/kg
Most relevant reference point to minimise off-label use	0.05 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	43.3 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	53% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	53% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 1% to total dietary exposure which is within the 20% target, and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worst case - Pineapple), 1% of the ARfD. Population aged 2 years and above (worst case - all commodities), <1% of the ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Profenofos

An MRL of 0.02mg/kg for *All other foods except animal food commodities* for profenofos is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Prohexadione calcium

Prohexadione calcium was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## **Propamocarb**

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for propamocarb is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Propiconazole**

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for propiconazole is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Pydiflumetofen**

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for pydiflumetofen is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Pyraclostrobin**

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for pyraclostrobin is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Pyraflufen-ethyl**

Pyraflufen-ethyl was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## **Pyrethrins**

An MRL of 0.2 mg/kg for *All other foods except animal food commodities* for pyrethrins is currently listed in Schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Pyriofenone**

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for pyriofenone is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Pyriproxyfen**

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for pyriproxyfen is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## **Pyroxasulfone**

Pyroxasulfone was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## Ractopamine hydrochloride (ractopamine)

Ractopamine was excluded from consideration of an *All other foods except animal food commodities* MRL as it is a veterinary medicine and is therefore excluded from consideration as per the principles established in P1027.

## Sethoxydim

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for sethoxydim is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Simazine

Simazine was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that could be established that met the principles agreed in P1027. Therefore no *All other foods except animal food commodities* MRL is proposed.

## S-metolachlor (see metolachlor)

## Spinosad

An MRL of 0.01 mg/kg for *All other foods except animal food commodities* for spinosad is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Sulfoxaflor

An MRL of 0.01 mg/kg for *All other foods except animal food commodities* for sulfoxaflor is currently listed in schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Sulfuryl fluoride

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (as indicated by * on existing MRLs in EU Pesticide Database)
Lowest plant commodity MRL	0.05 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 0.05 mg/kg (Cereal grains) to 7 mg/kg (Peanut)
Lowest plant commodity MRL that is not the LOD	0.05 mg/kg
Most relevant reference point to minimise off-label use	0.05 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	43.1 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	13% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.02 mg/kg

NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	14% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 6% to total dietary exposure which is within the 20% target and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worst case - Pineapple), 1% of the ARfD. Population aged 2 years and above (worst case – all commodities), <1% of the ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Tebuconazole

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for tebuconazole is currently listed in Schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Tebufenozide

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for tebufenozide is currently listed in Schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Thiacloprid

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for thiacloprid is currently listed in Schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Thiamethoxam

An MRL of 0.5 mg/kg for *All other foods except animal food commodities* for thiamethoxam is currently listed in Schedule 20. This MRL was reviewed as part of M1018 and no change is proposed.

## Thiophanate-methyl

An *All other foods except animal food commodities* MRL of 0.1 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.1 mg/kg (as indicated by * on existing MRLs)
Lowest plant commodity MRL	*0.1 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 0.1 (Almonds; Currants, black, red, white; Raspberries, red, black; Rhubarb; Strawberry; Peanut) to 20 (Cherries).
Lowest plant commodity MRL that is	0.1 mg/kg

Considerations	Comments
not the LOD	
Most relevant reference point to minimise off-label use	0.5 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	44.2 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	11% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL <sup>1</sup>	0.1 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL and existing permissions	11% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.1 mg/kg represents a contribution of 5% to total dietary exposure which is within the 20% target, and is considered acceptable.
Acute dietary exposure assessment (NESTI)	An acute dietary exposure assessment is considered unnecessary for thiophanate-methyl because the APVMA has not established an ARfD and JMPR consider an ARfD unnecessary.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.1 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

## Tioxazafen

Tioxazafen was excluded from consideration of an *All other foods except animal food commodities* MRL as it is not listed in Schedule 20, and there is no registered use of tioxazafen in Australia.

## Triflumezopyrim

Triflumezopyrim was excluded from consideration of an *All other foods except animal food commodities* MRL as it is not listed in Schedule 20, and there is no registered use of triflumezopyrim in Australia.

## Zeta-cypermethrin

See cypermethrin

## Zinc phosphide (see phosphine)

Reinstating chemical entry in schedule 20 only.

## Zineb (see dithiocarbamates)

Reinstating chemical entry in schedule 20 only.



## **Ziram (see dithiocarbamates)**

Reinstating chemical entry in schedule 20 only.

## **Zoxamide**

Zoxamide was excluded from consideration of an *All other foods except animal food commodities* MRL as it is not listed in Schedule 20, and there is no registered use of zoxamide in Australia.