

## 16 May 2019 [80-19]

## Supporting document 1

Dietary exposure assessments and proposed MRL changes – Proposal M1016

Maximum Residue Limits (2018)

## **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 2018 Maximum Residue Limit (MRL) Harmonisation Proposal, M1016.

A DEA was undertaken for each of the requested chemicals where the Australian Pesticides and Veterinary Medicines Authority (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 Acceptable Daily Intake (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 Acute Reference Dose (ARfD), if established.

The food consumption data used for the dietary exposure assessment 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 intake of a food commodity for the whole population. For the NESTI calculations, food consumption data at the 97.5<sup>th</sup> percentile for all respondents (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. 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 the 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 M1016 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 2018 MRL Harmonisation Proposal, M1016.

The harmonisation requests were 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 involved estimating dietary exposure for all agvet chemicals where the APVMA or JMPR have 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 has not been established by the APVMA or JMPR, an alternate HBGV has been used in this Proposal.

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, and 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. 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 Acceptable Daily Intake (ADI) established for the chemical.

The NEDI calculation may incorporate more specific data. 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. 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 because it assumes that:

- the agricultural chemical will be used on all the 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 (shortterm) 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 instead of the mean. 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 exact 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 national estimate of dietary intake (NEDI) (i.e. chronic dietary exposure estimate), from residues of the agvet chemical exceeded 80% of the relevant HBGV, the Acceptable Daily Intake (ADI)
- The contribution from the commodities included to estimate the total chronic dietary exposure would not exceed 20%
- Acute dietary exposure estimate exceeded the acute reference dose (ARfD), using a 'worst case' commodity consumption amount and the proposed MRL for *All other foods except animal food commodities*.

# 5. Food consumption data used

## 5.1 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 was divided by their own body weight before the summary population statistics were 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.

## 5.2 **NESTI** calculation

NESTI calculations use food consumption data at the 97.5<sup>th</sup> percentile, for only 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'.

ARfDs for chemicals may be set for specific population sub-groups where necessary. Therefore, large portion food consumption data was 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).

## 6. Results of assessment

For all the MRLs proposed in M1016, 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.

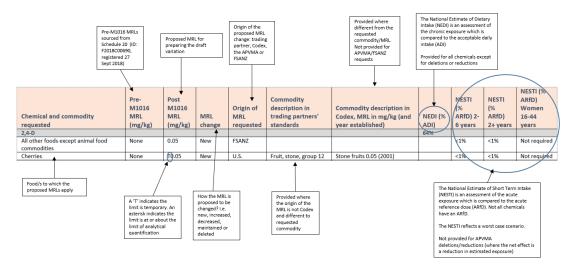


Figure 1: Interpretive guide to the proposed MRL changes

Table 1: Proposed MRLs for the various commodities and their dietary exposure estimates	5
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Chemical and commodity requested	Pre- M1016 MRL (mg/kg)	Post M1016 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)	NESTI (% ARfD) 2- 6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
2,4-D							64%			
Cherries	None	0.05	New	U.S.	Fruit, stone, group 12	Stone fruits 0.05 (2001)		<1%	<1%	Not required
Abamectin							8%			
Cranberry	None	0.05	New	U.S.	Berry, low growing, subgroup 13-07G	Commodity not listed		Not required	Not required	3%
Acetamiprid							4%			
Raspberries, red, black	None	2	New	EU	Berries and small fruits, Cane fruits, Raspberries	Berries and other small fruits (except grapes and strawberries) 2 (2012)		11%	1%	Not required
Aldoxycarb							Not required			
Cattle, edible offal of	0.2	None	Deleted	APVMA				Not required	Not required	Not required
Cattle meat	*0.02 <sup>1</sup>	None	Deleted	APVMA				Not required	Not required	Not required
Eggs	0.1	None	Deleted	APVMA				Not required	Not required	Not required
Milks	*0.02	None	Deleted	APVMA				Not required	Not required	Not required
Poultry, Edible offal of	0.2	None	Deleted	APVMA				Not required	Not required	Not required
Poultry meat	*0.02	None	Deleted	APVMA				Not required	Not required	Not required
Wheat	*0.02	None	Deleted	APVMA				Not required	Not required	Not required
Alpha-Cypermethrin							54%			
Cherries	None	2	New	EU	Cherry	Stone fruits 2 (2009)		11%	5%	Not required
Azaconazole							Not required			
Mushrooms	0.1	None	Deleted	APVMA				Not required	Not required	Not required

<sup>&</sup>lt;sup>1</sup> An asterisk (\*) indicates that the maximum residue limit is set at the limit of determination

Chemical and commodity requested	Pre- M1016 MRL (mg/kg)	Post M1016 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)	NESTI (% ARfD) 2- 6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Benzovindiflupyr							3%			
Potato	None	0.02	New	U.S.	Veg, tuberous and corm, subgroup 1C	Commodity not listed		1%	<1%	Not required
Boscalid							66%			
Cherries	None	4	New	EU	Fruit, stone, group 12	Stone fruit 3 (2010)		Not required	Not required	Not required
Bupirimate							5%			
All other foods except animal food commodities	None	0.02	New	FSANZ				Not required	Not required	Not required
Currants black, red, white	None	5	New	EU	Berries and small fruits, other small fruits and berries	Chemical not listed		Not required	Not required	Not required
Carbaryl							28%			
All other foods except animal food commodities	None	0.02	New	FSANZ				Not required	Not required	
Cassava	T0.1 <sup>2</sup>	None	Deleted	APVMA				Not required	Not required	Not required
Chinomethionat see Oxythioquinox							Not required			
			Chemical deleted	APVMA				Not required	Not required	Not required
Chlorantraniliprole							1%			
Cherries	1	2.5	New	U.S.	Fruit, stone, group 12	Stone fruits 1 (2009)		Not required	Not required	Not required
Chlorpropham							Not required			
Garlic	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Onions, bulb	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Chlorpyrifos-methyl							88%			
Oilseed [except Cotton seed]	None	0.15	New	APVMA		Commodity not listed		1%	<1%	Not required
Pulses [except Lupin (dry)]	None	0.15	New	APVMA		Commodity not listed		1%	<1%	Not required

 $<sup>^{\</sup>rm 2}$  The symbol 'T' indicates that the MRL is a temporary MRL

Chemical and commodity requested	Pre- M1016 MRL (mg/kg)	Post M1016 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)	NESTI (% ARfD) 2- 6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Clodinafop Acid							Not required			
Barley	T*0.02	None	Deleted	APVMA			. equiled	Not required	Not required	Not required
Clodinafop-propargyl							Not required			
Barley	T*0.02	None	Deleted	APVMA				Not required	Not required	Not required
Clofentezine							17%			
Cherries	None	1	New	U.S.	Cherry, subgroup 12-12A	Stone fruits 0.5 (2008)		Not required	Not required	Not required
Tea, green, black	None	*0.05	New	UK	Teas	Commodity not listed		Not required	Not required	Not required
Clothianidin							10%			
Cereal grains [except Maize; Popcorn and Sorghum]	None	*0.02	New	APVMA	Cereal grains [except maize; popcorn and sorghum]	Commodity not listed		<1%	<1%	Not required
Brassica (cole or cabbage) vegetables, Head cabbage, Flowerhead brassicas	None	0.5	New	APVMA	Brassica (cole or cabbage) vegetables, Head cabbage, Flowerhead brassicas	Brassica (Cole or Cabbage) Vegetables, Head Cabbage, Flowerhead Brassicas 0.2 (2011)		7%	<1%	Not required
Leafy vegetables	None	0.7	New	APVMA	Leafy vegetables	Leafy vegetables 2 (2011)		3%	5%	Not required
Cyflufenamid							1%			
All other foods except animal food commodities	None	0.02	New	FSANZ				Not required	Not required	Not required
Hops, dry	None	5	New	U.S.	Hops, dried cones	Chemical not listed		Not required	Not required	Not required
Cyprodinil							38%			
Pomegranate	None	10	New	U.S.	Pomegranate	Commodity not listed		Not required	Not required	Not required
Deltamethrin							71%			
Currants, black, red, white	0.5	0.6	Increased	EU	Currants (black, red and white)	Commodity not listed		8%	2%	Not required

Chemical and commodity requested	Pre- M1016 MRL (mg/kg)	Post M1016 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)	NESTI (% ARfD) 2- 6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Diafenthiuron							Not required			
Peanut	T0.1	None	Deleted	APVMA				Not required	Not required	Not required
Difenoconazole							86%			
Cranberry	None	0.6	New	U.S.	Cranberry	Commodity not listed	1	1%	1%	
Grapefruit	None	0.6	New	U.S.	citrus crop group 10-9	Citrus fruits 0.6 (2014)		7%	4%	
Lemon	None	0.6	New	U.S.	citrus crop group 10-10	Citrus fruits 0.6 (2014)		10%	4%	
Orange	None	0.6	New	U.S.	citrus crop group 10-11	Citrus fruits 0.6 (2014)		10%	4%	
Pecans	None	0.03	New	U.S.	tree nuts, crop group 14-12	tree nuts 0.03 (2011)		<1%	<1%	
Tea, green, black	None	*0.05	New	UK	Teas, coffee, herbal infusions, cocoa and carobs - Tea, Green, Black	Commodity not listed		<1%	<1%	
Diflubenzuron							29%			
Citrus fruits	None	3	New	U.S.	Fruit, citrus, group 10-10	Citrus fruits 0.5 (2014)		Not required	Not required	Not required
Diflufenican							<1%			
Tea, green, black	None	*0.05	New	UK	Teas, coffee, herbal infusions, cocoa and carobs - Tea, Green, Black	Chemical not listed		Not required	Not required	Not required
Dimethipin							Not required			
Cotton seed	0.5	None	Deleted	APVMA				Not required	Not required	Not required
Cotton seed oil, crude	*0.1	None	Deleted	APVMA				Not required	Not required	Not required
Cotton seed oil, refined	*0.1	None	Deleted	APVMA				Not required	Not required	Not required
Edible offal (Mammalian)	*0.01	None	Deleted	APVMA				Not required	Not required	Not required
Eggs	*0.02	None	Deleted	APVMA				Not required	Not required	Not required

	Pre-	Post			Commodity			NESTI	NESTI	NESTI (% ARfD)
	M1016	M1016		Origin of	description in	Commodity description in		(%	(%	Women
Chemical and commodity	MRL	MRL	MRL	MRL	trading partners'	Codex, MRL in mg/kg (and	NEDI (%	(70 ARfD) 2-	ARfD)	16-44
requested	(mg/kg)	(mg/kg)	change	requested	standards	vear established)	ADI)	6 years	2+ years	years
Meat [mammalian]	*0.01	None	Deleted	APVMA	standarus	year established)	ADIJ	Not	Not	Not required
Meat [manmanan]	0.01	None	Deleteu					required	required	Notrequired
Milks	*0.01	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Poultry, Edible offal of	*0.01	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Poultry meat	*0.01	None	Deleted	APVMA				Not	Not	Not required
				_				required	required	
Dimethirimol							Not			
			<u> </u>				required			
Fruiting vegetables, cucurbits	1	None	Deleted	APVMA				Not	Not	Not required
Diuron							31%	required	required	
Fruit	0.5	None	Deleted	APVMA			51%	Not	Not	Not required
That	0.5	None	Deleteu					required	required	Notrequired
Bananas	None	0.5	New	APVMA				Not	Not	Not required
Dananas		0.0		/				required	required	notrequirea
Date	None	T0.5	New	APVMA				Not	Not	Not required
								required	required	-
Pineapple	None	0.5	New	APVMA				Not	Not	Not required
								required	required	
Emamectin							72%			
Pecans	None	0.02	New	U.S.	Nut, tree, group 14	Tree nuts *0.001 (2015)		<1%	<1%	Not required
Tea, green, black	None	*0.02	New	UK	Teas, coffee, herbal	Commodity not listed		<1%	<1%	Not required
					infusions, cocoa and					
					carobs - Tea, Green, Black					
Famoxadone					DIdCK		11%			
Raspberries, red, black	None	10	New	U.S.	Caneberry,	Commodity not listed	11/0	9%	1%	Not required
Ruspbernes, reu, black	None	10	New	0.5.	subgroup 13-07A	commonly not listed		570	170	Notrequired
Fenazaquin							<1%			
Cherries	None	2	New	U.S.	Cherry	Chemical not listed		55%	13%	Not required
Fenbuconazole							9%			
Tea, green, black	None	*0.05	New	UK	Teas, coffee, herbal	Commodity not listed		Not	Not	Not required
					infusions, cocoa and			required	required	
					carobs - Tea, Green,					
		l			Black	1	1			

Chemical and commodity requested	Pre- M1016 MRL (mg/kg)	Post M1016 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)	NESTI (% ARfD) 2- 6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Fenpyrazamine							2%			
Blueberries	None	5	New	U.S.	Bushberry subgroup 13-07B	Chemical not listed		4%	<1%	Not required
Fenvalerate							22%			
Peanut	T0.1	None	Deleted	APVMA				Not required	Not required	Not required
Flamprop-methyl							25%			
Safflower seed	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Fluazifop-P-Butyl							<b>58%</b>			
All other foods except animal food commodities	None	0.02	New	FSANZ				1%	<1%	Not required
Pecans	None	0.05	New	U.S.	Tree nuts, crop group 14-12	Chemical not listed		<1%	<1%	Not required
Fluazinam							8%			
All other foods except animal food	None	0.01	New	FSANZ				Not	Not	Not required
commodities								required	required	
Blueberries	None	7	New	U.S.	Bushberry, subgroup 13-07B	Chemical not listed		Not required	Not required	Not required
Flucythrinate							Not required			
Cotton seed	*0.1	None	Deleted	APVMA				Not required	Not required	Not required
Cotton seed oil, crude	*0.1	None	Deleted	APVMA				Not required	Not required	Not required
Edible offal (Mammalian)	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Eggs	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Meat (mammalian)	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Milks	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Poultry, edible offal of	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Poultry meat	*0.05	None	Deleted	APVMA				Not required	Not required	Not required

Chemical and commodity requested	Pre- M1016 MRL (mg/kg)	Post M1016 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)	NESTI (% ARfD) 2- 6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Fluopyram							56%			
Blueberries	None	7	New	U.S.	Bushberry subgroup 13-07B	Commodity not listed		9%	2%	Not required
Flupyradifurone							17%			
Stone fruits	None	1.5	New	U.S.	Fruit, stone, group 12-12	Chemical not listed		13%	5%	Not required
Flusilazole							Not required			
Sugar cane	*0.02	None	Deleted	APVMA				Not required	Not required	Not required
Fluxapyroxad							72%			
Berries and other small fruit (except grape)	None	7	New	Codex		Berries and other small fruits 7 (2016)		Not required	Not required	Not required
Grape (except dried grape)	2	3	Increased	Codex		Grapes 3 (2016)		Not required	Not required	Not required
Brussels sprouts; Head Cabbages	None	4	New	U.S.	Vegetable, brassica leafy, group 5	Brassica (Cole or Cabbage) Vegetables, Head Cabbage, Flowerhead Brassicas 2 (2016)		Not required	Not required	Not required
Folpet							<1%			
Currants, black, red, white	None	0.03	New	EU	Currants (black, red, white)	Commodity not listed		Not required	Not required	<1%
Halosulfuron-methyl							2%			
Raspberries, red, black	None	0.05	New	U.S.	Caneberry subgroup 13-07A	Chemical not listed		Not required	Not required	Not required
Lambda-cyhalothrin							85%			
Pecans	None	0.05	New	U.S.	tree nuts, crop group 14-12	Tree nuts *0.01 (2009)		<1%	<1%	Not required
Strawberry	None	0.5	New	EU	Strawberries	Berries and other small fruits 0.2 (2009)		18%	5%	Not required
Mandestrobin							4%			
All other foods except animal food commodities	None	0.05	New	FSANZ				Not required	Not required	Not required
Dried grapes (raisins and sultanas)	None	7	New	U.S.	Grape, raisin	Chemical not listed		Not required	Not required	Not required
Grapes (except dried grapes)	None	5	New	U.S.	Fruit, small, vine climbing, except fuzzy kiwifruit, subgroup 13-07F	Chemical not listed		Not required	Not required	Not required

	Pre-	Post			Commodity			NESTI	NESTI	NESTI (% ARfD)
	M1016	M1016		Origin of	description in	Commodity description in		(%	(%	Women
Chemical and commodity	MRL	MRL	MRL	MRL	trading partners'	Codex, MRL in mg/kg (and	NEDI (%	(70 ARfD) 2-	( <sup>70</sup> ARfD)	16-44
requested	(mg/kg)	(mg/kg)	change	requested	standards	vear established)	ADI)	6 years	2+ years	vears
Rapeseed; rapeseed oil	None	0.5	New	Canada	Rapeseeds, crop	Chemical not listed	ADIJ	Not	Not	Not required
	None	0.5	New		subgroup 20A			required	required	
Strawberry	None	3	New	U.S.	Berry, low growing,	Chemical not listed		Not	Not	Not required
					subgroup 13–07G, except cranberry			required	required	
Mesotrione					except clanberry		<1%			
Asparagus	None	0.01	New	U.S.	stalk and stem veg	Asparagus 0.01 (2015)		Not	Not	Not required
					crop group 22			required	required	
Blueberries	None	0.01	New	U.S.	Berry group 13	Commodity not listed		Not	Not	Not required
								required	required	
Cherries	None	0.01	New	U.S.	Stone Fruit crop	Commodity not listed		Not	Not	Not required
					group 12-12			required	required	
Grapefruit	None	0.01	New	U.S.	citrus crop group	Commodity not listed		Not	Not	Not required
					10-10			required	required	
Lemon	None	0.01	New	U.S.	citrus crop group	Commodity not listed		Not	Not	Not required
					10-10		-	required	required	
Orange	None	0.01	New	U.S.	citrus crop group 10-10	Commodity not listed		Not	Not	Not required
Peaches	None	0.01	New	U.S.	Stone Fruit crop	Commodity not listed		required Not	required Not	Not required
Peaches	None	0.01	New	0.3.	group 12-12	commonly not listed		required	required	Not required
Pecans	None	0.01	New	U.S.	tree nuts, crop	Commodity not listed		Not	Not	Not required
					group 14-12			required	required	
Plums	None	0.01	New	U.S.	Stone Fruit crop	Commodity not listed		Not	Not	Not required
					group 12-12			required	required	
Metaflumizone							4%			
Citrus fruits	0.04	2	Increased	Brazil	Citrus	Commodity not listed		Not	Not	Not required
								required	required	
Coffee beans	None	0.1	New	Brazil	Coffee	Commodity not listed		Not	Not	Not required
		0.00						required	required	
Corn (maize)	None	0.02	New	Brazil	Corn	Commodity not listed		Not	Not	Not required
Caultana	Nega	0.2	New	Dunnil	Caulaaaa	Common ditu yat liata d		required	required	Natura
Soybean	None	0.2	New	Brazil	Soybean	Commodity not listed		Not required	Not required	Not required
Sugar cane	None	0.02	New	Brazil	Sugarcane	Commodity not listed		Not	Not	Not required
Jugai Calle	NOTE	0.02	New	DI dZII	Sugarcane			required	required	Notrequired
Metalaxyl-M (Mefenoxam)							17%			
Orange	None	1	New	U.S.	citrus crop group	Citrus fruits 5 (undated)		Not	Not	Not required
					10-10			required	required	

										NESTI (%
	Pre-	Post			Commodity			NESTI	NESTI	ARfD)
	M1016	M1016		Origin of	description in	Commodity description in		(%	(%	Women
Chemical and commodity	MRL	MRL	MRL	MRL	trading partners'	Codex, MRL in mg/kg (and	NEDI (%	ARfD) 2-	ARfD)	16-44
requested	(mg/kg)	(mg/kg)	change	requested	standards	year established)	ADI)	6 years	2+ years	years
Grapefruit	None	1	New	U.S.	citrus crop group 10-11	Citrus fruits 5 (undated)		Not required	Not required	Not required
Lemon	None	1	New	U.S.	citrus crop group 10-12	Citrus fruits 5 (undated)		Not required	Not required	Not required
Methamidophos							100%			
Raspberry, black, red	None	0.01	New	EU	Raspberries (red and yellow)	Commodity not listed		1%	<1%	Not required
Methidathion							72%			
Tea, green, black	None	0.1	New	UK	Teas	Tea, Green, Black (black, fermented and dried) 0.5 1997		<1%	<1%	Not required
Olaquindox							Not required			
Poultry, Edible offal of	0.3	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Poultry meat	0.3	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Oxydemeton-methyl							Not required			
Brassica (cole or cabbage) vegetables	0.5	None	Deleted	APVMA				Not required	Not required	Not required
Cotton seed	*0.01	None	Deleted	APVMA				Not required	Not required	Not required
Cotton seed oil, crude	*0.01	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Edible offal (Mammalian)	*0.01	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Eggs	*0.01	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Lupins (dry)	*0.01	None	Deleted	APVMA				Not	Not	Not required
	*0.01	Name -	Dalated					required	required	Net as the l
Meat (mammalian)	*0.01	None	Deleted	APVMA				Not required	Not required	Not required
Milks	*0.01	None	Deleted	APVMA				Not	Not	Not required
WIIKJ	0.01	None	Deleten					required	required	Notrequired
Poultry (edible offal of	*0.01	None	Deleted	APVMA				Not	Not	Not required
	0.01		Leicted					required	required	
Poultry meat	*0.01	None	Deleted	APVMA				Not	Not	Not required
,								required	required	

Chemical and commodity requested	Pre- M1016 MRL (mg/kg)	Post M1016 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)	NESTI (% ARfD) 2- 6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Oxythioquinox							Not required			
Fruiting vegetables, cucurbits	0.5	None	Deleted	APVMA				Not required	Not required	Not required
Pome fruits	0.5	None	Deleted	APVMA				Not required	Not required	Not required
Stone fruits	0.5	None	Deleted	APVMA				Not required	Not required	Not required
Penthiopyrad							11%	lequieu	lequireu	
Blueberries	None	3	New	U.S.	Berry, low growing, subgroup 13-07G	Commodity not listed		2%	<1%	Not required
Permethrin							Not required			
Coriander (leaves and stems)	30	None	Deleted	APVMA				Not required	Not required	Not required
Herbs	30	None	Deleted	APVMA				Not required	Not required	Not required
Kaffir lime leaves	30	None	Deleted	APVMA				Not required	Not required	Not required
Lemon balm	30	None	Deleted	APVMA				Not required	Not required	Not required
Lemon grass	30	None	Deleted	APVMA				Not required	Not required	Not required
Phenmedipham							6%	required	required	
All other foods except animal food commodities	None	0.02	New	FSANZ				Not required	Not required	Not required
Strawberry	None	0.3	New	EU	Strawberry	Chemical not listed		Not required	Not required	Not required
Phosmet							69%			
All other foods except animal food commodities	None	0.05	New	FSANZ				3%	1%	Not required
Kiwifruit	15	None	Deleted	APVMA				Not required	Not required	Not required
Orange	None	3	New	Codex		Citrus fruits 3 (2013)		74%	27%	Not required
Pome fruits	1	None	Deleted	APVMA				Not required	Not required	Not required
Stone fruits	1	None	Deleted	APVMA				Not required	Not required	Not required

					<b>.</b>					NESTI (%
	Pre-	Post			Commodity			NESTI	NESTI	ARfD)
	M1016	M1016		Origin of	description in	Commodity description in		(%	(%	Women
Chemical and commodity	MRL	MRL	MRL	MRL	trading partners'	Codex, MRL in mg/kg (and	NEDI (%	ARfD) 2-	ARfD)	16-44
requested	(mg/kg)	(mg/kg)	change	requested	standards	year established)	ADI)	6 years	2+ years	years
Phosphine							2%			
All other foods except animal food commodities	None	0.01	New	FSANZ				Not required	Not required	Not required
Berries and other small fruits	None	AoF (see above)	N/A <sup>3</sup>	FSANZ				N/A	N/A	N/A
Grapes and/or all fresh fruit and vegetables	None	AoF (see above)	N/A (see above)	FSANZ				N/A	N/A	N/A
Pome fruits	None	AoF (see above)	N/A (see above)	FSANZ				N/A	N/A	N/A
Tropical/Sub-tropical fruit with inedible peel	None	AoF (see above)	N/A (see above)	FSANZ				N/A	N/A	N/A
Hydrogen Phosphide (see Phosphine)										
Pirimicarb							9%			
Cherry	None	5	New	EU	Cherries (sweet)	Stone fruits 3 (2007)		27%	7%	Not required
Currants (Black, Red. White)	None	1	New	EU	Currants (black, red and white)	Berries and other small fruits 1 (2007)		7%	1%	Not required
Raspberry	None	4	New	EU	Raspberries (red and yellow)	Berries and other small fruits 1 (2007)		22%	2%	Not required
Prochloraz							67%			
Cherry	None	0.05	New	EU	Cherries (sweet)	Commodity not listed		<1%	<1%	Not required
Profenofos							1%			
Tea, green, black	None	*0.05	New	UK	Teas	Teas (Tea and herb teas) 0.5 (1997)		<1%	<1%	Not required
Propaquizafop							6%			
Currants (Black, Red. White)	None	*0.05	New	EU	Currants (black, red and white)	Chemical not listed		Not required	Not required	Not required
Raspberry	None	*0.05	New	EU	Raspberries (red and yellow)	Chemical not listed		Not required	Not required	Not required
Strawberry	None	*0.05	New	EU	Srawberries	Chemical not listed		Not required	Not required	Not required
Propargite							Not required			
Currant, black	Т3	None	Deleted	APVMA				Not required	Not required	Not required

<sup>&</sup>lt;sup>3</sup> All individual requests for phosphine MRLs were considered together as an *All other foods except animal food commodity* MRL at the same limit

	Pre-	Post			Commodity			NESTI	NESTI	NESTI (% ARfD)
	M1016	M1016		Origin of	description in	Commodity description in		(%	(%	Women
Chemical and commodity	MRL	MRL	MRL	MRL	trading partners'	Codex, MRL in mg/kg (and	NEDI (%	(70 ARfD) 2-	ARfD)	16-44
requested	(mg/kg)	(mg/kg)	change	requested	standards	vear established)	ADI)	-		-
Mangosteen	T3	None	Deleted	APVMA	stanuarus	year established)	ADIJ	6 years Not	2+ years Not	years Not required
		None	Deleted					required	required	
Rambutan	Т3	None	Deleted	APVMA				Not required	Not required	Not required
Pyraclostrobin							34%			
Orange	None	2	New	Codex		Citrus fruits 2 (2013)		Not required	Not required	81%
Pyridate							Not required	lequireu	lequieu	
Chick pea (dry)	*0.1	None	Deleted	APVMA			. equireu	Not required	Not required	Not required
Peanut	*0.1	None	Deleted	APVMA				required	required	
Pyrimethanil	0.1	None	Deleteu				32%			
Berries and other small fruits [except	T5	15	Increased	EU/ FSANZ	Raspberries	Raspberries, Red, Black 15	01/0	Not	Not	Not required
grapes, strawberry, blueberries]	_	-		-, -		(2016)		required	required	
Quinoxyfen							2%		1	
Tea, green, black	None	*0.05	New	UK	Teas, coffee, herbal infusions, cocoa and carobs	Chemical not listed		Not required	Not required	Not required
Quizalofop-ethyl							15%			
All other foods except animal food commodities	None	0.01	New	FSANZ				Not required	Not required	Not required
Currants, black, red, white	None	*0.05	New	EU	Currants (black, red, white)	Chemical not listed		Not required	Not required	Not required
Quizalofop-P-tefuryl							15%	lequieu		
All other foods except animal food commodities	None	0.01	New	FSANZ				Not required	Not required	Not required
Currants, black, red, white	None	*0.05	New	EU	Currants (black, red, white)	Chemical not listed		Not required	Not required	Not required
Rimsulfuron					Winter		<1%	requireu	Tequireu	
Blueberries	None	0.02	New	U.S.	Berry, low growing,	Chemical not listed	11/0	Not	Not	Not required
		0.01			except strawberry, subgroup 13-07H			required	required	
Saflufenacil							4%			
Cotton seed	None	0.2	New	Codex		Cotton seed 0.2 (2012)		Not required	Not required	<1%
Rape seed	None	0.6	New	Codex		Rape seed 0.6 (2012)		Not required	Not required	1%

										NESTI (%
	Pre-	Post			Commodity			NESTI	NESTI	ARfD)
	M1016	M1016		Origin of	description in	Commodity description in		(%	(%	Women
Chemical and commodity	MRL	MRL	MRL	MRL	trading partners'	Codex, MRL in mg/kg (and	NEDI (%	ARfD) 2-	ARfD)	16-44
requested	(mg/kg)	(mg/kg)	change	requested	standards	year established)	ADI)	6 years	2+ years	years
Sunflower seed	None	0.7	New	Codex		Sunflower seed 0.7 (2012)		Not required	Not required	<1%
Sugar cane molasses	None	1	New	Codex		Sugar cane molasses 1 (2017)		Not required	Not required	<1%
Sethoxydim							56%		•	
All other foods except animal food commodities	None	0.1	New	FSANZ		Chemical not listed		Not required	Not required	Not required
Blueberries	0.2	4	Increased	U.S.	Bushberry, subgroup 13-07B	Chemical not listed		Not required	Not required	Not required
Sulfoxaflor							Not required			
Dried grapes (Currants, Raisins and Sultanas)	T10	None	Deleted	APVMA				Not required	Not required	Not required
Grapes [except Wine-grapes]	Т3	None	Deleted	APVMA				Not required	Not required	Not required
Wine grapes	*0.01	None	Deleted	APVMA				Not required	Not reguired	Not required
Grapes	None	*0.01	New	APVMA				Not required	Not required	Not required
Sulprofos							Not required	required	requireu	
Cotton seed	0.2	None	Deleted	APVMA			required	Not required	Not required	Not required
Pepper, sweet	0.2	None	Deleted	APVMA				Not required	Not required	Not required
Tomato	1	None	Deleted	APVMA				Not required	Not required	Not required
Tebufenozide							35%	lequireu	requireu	
All other foods except animal food commodities	None	0.05	New	FSANZ				Not required	Not required	Not required
Blueberries	T2	None	Deleted	APVMA				Not required	Not required	Not required
Coffee beans	T0.05	None	Deleted	APVMA				Not required	Not required	Not required
Nectarine	T1	None	Deleted	APVMA				Not required	Not required	Not required
Peach	T1	None	Deleted	APVMA				Not required	Not required	Not required

										NESTI (%
	Pre-	Post			Commodity			NESTI	NESTI	ARfD)
	M1016	M1016		Origin of	description in	Commodity description in		(%	(%	Women
Chemical and commodity	MRL	MRL	MRL	MRL	trading partners'	Codex, MRL in mg/kg (and	NEDI (%	ARfD) 2-	ARfD)	16-44
requested	(mg/kg)	(mg/kg)	change	requested	standards	year established)	ADI)	6 years	2+ years	years
Rambutan	T0.05	None	Deleted	APVMA				Not	Not	Not required
Tale for some							220/	required	required	
Tebufenpyrad All other foods except animal food	None	0.02	New	FSANZ			32%	Not	Not	Not required
commodities	None	0.02	New	FSAINZ				required	required	Not required
Strawberry	None	1	New	EU	Strawberries	Chemical not listed		Not	Not	Not required
Strawberry	None	1	New	20	Strawbernes	chemical not listed		required	required	Notrequired
Teflubenzuron							18%	required	lequireu	
Citrus fruits	None	0.5	New	Codex		Lemons and limes (including		Not	Not	Not required
			-			Citron) All commodities in this		required	required	
						subgroup 0.5 (2017)				
Maize	None	0.1	New	Brazil	Maize	Maize *0.01 (2017)		Not	Not	Not required
								required	required	
Soya bean (dry)	None	0.05	New	Codex		Soya bean (dry) 0.05 (2017)		Not	Not	Not required
								required	required	
Sugar cane	None	*0.01	New	Codex		sugar cane *0.01 (2017)		Not	Not	Not required
								required	required	
Terbacil							<1%			
Blueberries	None	0.2	New	U.S.	Blueberry	Chemical not listed		Not	Not	Not required
water shifts a factor of							81 - 1	required	required	
Tetrachlorvinphos							Not required			
Edible offal (Mammalian)	0.05	None	Deleted	APVMA			required	Not	Not	Not required
	0.05	None	Deleteu					required	required	Notrequired
Meat (mammalian)	0.05	None	Deleted	APVMA				Not	Not	Not required
incat (maninanan)	0.05	None	Deleteu	/				required	required	Hotrequireu
Milks [in the fat]	0.05	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Tetradifon							Not			
							required			
Fruits	5	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Vegetables	5	None	Deleted	APVMA				Not	Not	Not required
								required	required	
Thiometon							Not			
							required			
Cereal grains	1	None	Deleted	APVMA				Not	Not	Not required
	I	1	1	1	1		1	required	required	

Chemical and commodity	Pre- M1016 MRL	Post M1016 MRL	MRL	Origin of MRL	Commodity description in trading partners'	Commodity description in Codex, MRL in mg/kg (and	NEDI (%	NESTI (% ARfD) 2-	NESTI (% ARfD)	NESTI (% ARfD) Women 16-44
requested	(mg/kg)	(mg/kg)	change	requested	standards	year established)	ADI)	6 years	2+ years	years
Edible offal (Mammalian)	*0.05	None	Deleted	APVMA		year estavisiteu;		Not required	Not required	Not required
Eggs	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Fruits	1	None	Deleted	APVMA				Not required	Not required	Not required
Lupin (dry)	0.5	None	Deleted	APVMA				Not required	Not required	Not required
Meat (mammalian)	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Milks	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Oilseed	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Poultry, Edible offal of	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Poultry meat	*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Vegetables	1	None	Deleted	APVMA				Not required	Not required	Not required
Thiophanate-Methyl							10%			
Mango	None	2	New	Brazil	Mango	Chemical not listed		Not required	Not required	14%
Tolylfluanid							Not required			
Berries and other small fruits (except grapes and strawberry)	T15	None	Deleted	APVMA				Not required	Not required	Not required
Cucumber	T2	None	Deleted	APVMA				Not required	Not required	Not required
Dried grapes	T0.2	None	Deleted	APVMA				Not required	Not required	Not required
Grapes	T*0.05	None	Deleted	APVMA				Not required	Not required	Not required
Strawberry	3	None	Deleted	APVMA				Not required	Not required	Not required
Trichloroethylene							Not required			
Cereal grains	*0.1	None	Deleted	APVMA				Not required	Not required	Not required

Chemical and commodity requested Triflumizole	Pre- M1016 MRL (mg/kg)	Post M1016 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) Not	NESTI (% ARfD) 2- 6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Pome fruits	0.5	None	Deleted	APVMA			required	Not required	Not required	Not required
Trifluralin							9%		•	
Tea, green, back	None	*0.05	New	UK	Teas, coffee, herbal infusions, cocoa and carobs	Chemical not listed		Not required	Not required	Not required

# 6.1 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 M1016. 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 M1016 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.

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 received, 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* (AoF) MRL and the chemical has subsequently been removed from Schedule 20, the AoF MRL will also be removed. Any MRL for specific commodities included in Schedule 20 under a harmonisation request for that chemical will remain in Schedule 20 (unless other considerations warrant them being removed).

FSANZ has assumed in the National Estimate of Dietary Intake (NEDI) calculations that 10% of this consumption amount would be likely to contain residues. This assumption does not apply to calculation of the National Estimated Short-Term Dietary 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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Chlorantraniliprole	30
Chlorpropham	30
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Clodinafop acid	30
Clodinafop-propargyl	30
Clofentezine	30
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#### 2, 4-Dichlorophenoxyacetic acid (2,4-D)

An *All other foods except animal food commodities* MRL of 0.05mg/kg is listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Abamectin

FSANZ has reconsidered dual use chemicals where the predominant use is as an agricultural pesticide (i.e. not a veterinary medicine). On this basis, an MRL of 0.01mg/kg for *All other foods except animal food commodities* for abamectin has been proposed as part of routine dietary exposure assessments. This MRL was reviewed as part of M1016 and no change is proposed.

#### Acetamiprid

An *All other foods except animal food commodities* MRL of 0.1 mg/kg was added to S20 as part of M1014. This MRL was reviewed as part of M1016 and no change is proposed.

#### Aldoxycarb

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 deletion of permitted uses of aldoxycarb in Australia. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Alpha-Cypermethrin (see Cypermethrin)

#### Azaconazole

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 deletion of permitted uses of azaconazole in Australia. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Benzovindiflupyr

Benzovindiflupyr was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered use of benzovindiflupyr in Australia.

#### Boscalid

An MRL of 0.5 mg/kg for *All other foods* for boscalid has been established by the APVMA and is listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### **Bupirimate**

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (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 (strawberry) to 1 mg/kg (Apple; Eggplant; Fruiting vegetables, cucurbits)
Lowest plant commodity MRL that is not the LOD	0.7 mg/kg
Most relevant reference point to minimise off-label use	0.7 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)	5% of the ADI
considering existing permissions only	
Proposed All other foods except	0.02 mg/kg
animal commodities MRL <sup>1</sup>	
NEDI including All other foods except	5% of the ADI
animal commodities MRL and	
existing permissions	
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.02 mg/kg represents a contribution of 4% to total
total chronic dietary exposure	dietary exposure which is within the 20% target and is
	considered acceptable.
Acute dietary exposure assessment	An acute dietary exposure assessment is considered
(NESTI)	unnecessary for bupirimate because the APVMA HAT
	and JMPR have not established an ARfD.
Conclusion	After considering the principles established and agreed in
	FSANZ proposal P1027, an All other foods except animal
	commodities 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.

### Carbaryl

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (indicated by * on existing MRLs)
Lowest plant commodity MRL	0.01 mg/kg
Magnitude of existing plant	The range of existing MRLs is *0.01 mg/kg (Coconut;
commodity MRLs	Feijoa; Fruiting vegetables, cucurbits; Grapes; Guava;
	Jaboticaba; Jackfruit; Litchi; Longan; Rambutan;
	Strawberry) to 15 mg/kg (Barley; Raspberries, red, black)
Lowest plant commodity MRL that is not the LOD	0.1 mg/kg
Most relevant reference point to	0.1 mg/kg
minimise off-label use	0.1 mg/kg
Consumption amount used in NEDI	35.8 g/kg bw/day
calculation for All other foods except	
animal commodities	
Chronic dietary exposure (NEDI)	27% of the ADI
considering existing permissions only	
Proposed All other foods except	0.02 mg/kg
animal commodities MRL <sup>1</sup>	
NEDI including All other foods except	28% of the ADI
animal commodities MRL and	
existing permissions	An All other feeds execut onimal commodities MDL of
Percentage contribution of All other foods except animal commodities to	An All other foods except animal commodities MRL of 0.02 mg/kg represents a contribution of 3 % to total
total chronic dietary exposure	dietary exposure which is within the 20% target and is
	considered acceptable.
Acute dietary exposure assessment	Children 2-6 years of age (worse case - Pineapples),
(NESTI)	21% of the ARfD.
	Population aged 2 years and above (worse case - milk),

	6% of the ARfD.
Conclusion	After considering the principles established and agreed in
	FSANZ proposal P1027, an All other foods except animal
	commodities 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.

#### Chinomethionat (see Oxythioquinox)

#### Chlorantraniliprole

An MRL of \*0.01 mg/kg for *All other foods* for Chlorantraniliprole has been established by the APVMA and is listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Chlorpropham

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 deletion of permitted uses of chlorpropham in Australia. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### 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.

#### Clethodim (see Sethoxydim)

#### Clodinafop Acid

An *All other foods except animal food commodities* MRL for clodinafip acid could not be established as even at the LOQ, the contribution of *All other foods except animal food commodities* to total dietary exposure exceeded the 20% target. Consequently, there was no MRL that was practical. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Clodinafop-propargyl

An *All other foods except animal food commodities* MRL for clodinafop-propargyl could not be established as even at the LOQ, the contribution of *All other foods except animal food commodities* to total dietary exposure exceeded the 20% target. Consequently, there was no MRL that was practical. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Clofentezine

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for clofentezine is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Clothianidin

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for clothianidin is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Cyflufenamid

Considerations Comments
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Limit of determination (LOD)	0.01 mg/kg (indicated by * on existing MRLs)
Lowest plant commodity MRL	T*0.01 mg/kg
Magnitude of existing plant	The range of existing MRLs is T*0.01 mg/kg (strawberry)
commodity MRLs	to 0.5 mg/kg (Dried grapes (currants, raisins and
	sultanas))
Lowest plant commodity MRL that is	0.1 mg/kg
not the LOD	
Most relevant reference point to	0.1 mg/kg
minimise off-label use	
Consumption amount used in NEDI	44.94 g/kg bw/day
calculation for All other foods except	
animal commodities	
Chronic dietary exposure (NEDI)	1% of the ADI
considering existing permissions only	
Proposed All other foods except	0.02 mg/kg
animal commodities MRL <sup>1</sup>	
NEDI including All other foods except	1% of the ADI
animal commodities MRL and	
existing permissions	
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.02 mg/kg represents a contribution of 22% to total
total chronic dietary exposure	dietary exposure which is slightly higher than the 20%
	target, however is considered acceptable.
Acute dietary exposure assessment	An acute dietary exposure assessment is considered
(NESTI)	unnecessary for cyflufenamid because the APVMA
	Health Assessment Team (HAT) considered an ARfD to
	be unnecessary.
Conclusion	After considering the principles established and agreed in
	FSANZ proposal P1027, an All other foods except animal
	commodities 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.

#### Cypermethrin

An MRL of \*0.01 mg/kg for *All other foods* for cypermethrin has been established by the APVMA. This MRL was reviewed as part of M1016 and no change is proposed.

#### Cyprodinil

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for cyprodinil is currently listed in Schedule 20. This MRL was reviewed as part of M1016 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 M1016 and no change is proposed.

#### Diafenthiuron

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 deletion of permitted uses of diafenthiuron in Australia. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Difenoconazole

An *All other foods except animal food commodities* MRL of 0.02 mg/kg is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Diflubenzuron

FSANZ has reconsidered dual use chemicals where the predominant use is as an agricultural pesticide (i.e. not a veterinary medicine). In Australia, it is considered that the predominant use of diflubenzuron is as a veterinary medicine. On this basis, diflubenzuron was excluded from consideration of an *All other foods except animal food commodities* MRL in accordance with agreed principles.

#### Diflufenican

An MRL of 0.01 mg/kg for *All other foods except animal food commodities* for diflufenican is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Dimethipin

Dimethipin was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered use of dimethipin in Australia.

#### Dimethirimol

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 deletion of permitted uses of dimethirimol in Australia. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Diuron

Considerations	Comments
Limit of determination (LOD)	0.01 to 0.05 mg/kg (indicated by * in EU MRL database
	and existing Australian MRLs)
Lowest plant commodity MRL	*0.05 mg/kg
Magnitude of existing plant	The range of existing MRLs is *0.05 (Pulses) to 2
commodity MRLs	(Asparagus)
Lowest plant commodity MRL that is	0.1 mg/kg
not the LOD	
Most relevant reference point to	0.1 mg/kg
minimise off-label use	
Consumption amount used in NEDI	42.43 g/kg bw/day
calculation for All other foods except	
animal commodities	
Chronic dietary exposure (NEDI)	30% of the ADI
considering existing permissions only	
Proposed All other foods except	0.02 mg/kg
animal commodities MRL <sup>1</sup>	
NEDI including All other foods except	31% of the ADI
animal commodities MRL and	
existing permissions	
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.02 mg/kg represents a contribution of 4% to total
total chronic dietary exposure	dietary exposure which is within the 20% target and is considered acceptable.
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Acute dietary exposure assessment (NESTI)	An acute dietary exposure assessment is considered unnecessary for diuron because the APVMA HAT consider an ARfD unnecessary.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities MRL</i> 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.

#### Emamectin

An MRL of 0.005 mg/kg for *All other foods except animal food commodities* for emamectin is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Emamectin benzoate

Emamectin benzoate was considered under emamectin (see above).

#### Famoxadone

Famoxadone was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered use of famoxadone in Australia.

#### Fenazaquin

Fenazaquin 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 fenzaquin 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 M1016 and no change is proposed.

#### Fenpyrazamine

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for fenpyrazamine is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Fenvalerate

An MRL of 0.05 mg/kg for *all other foods except animal food commodities* for fenvalerate is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Flamprop-methyl

Flamprop-methyl was considered in July 2018 for an *All other foods except animal food commodities* MRL as part of the routine APVMA MRL amendment process. An *All other foods except animal food commodities* MRL for flamprop-methyl could not be established as there was no limit that would exclude off label use. Establishing an *All other foods except animal food commodities* MRL lower than the LOQ is not practical. Flamprop-methyl was reviewed as part of M1016 and no change is proposed. Therefore no *All other foods except animal food commodities* MRL is proposed at this point in time.

#### Fluazifop-P-Butyl

Considerations	Comments
Limit of determination (LOD)	*0.01 to *0.02 mg/kg (indicated by * on existing MRL's).
Lowest plant commodity MRL	*0.01 mg/kg
Magnitude of existing plant	The range of existing MRLs is *0.01 mg/kg (Pome fruits)
commodity MRLs	to T50 mg/kg (Tea, green, black).
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>	33.86 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	57% of the ADI
Proposed All other foods except animal commodities MRL <sup>1</sup>	0.02 mg/kg
NEDI including <i>All other foods except</i> <i>animal commodities</i> MRL and existing permissions	58% of the ADI
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.02 mg/kg represents a contribution of 3% to total
total chronic dietary exposure	dietary exposure which is within the 20% target, and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worse case – pineapples), 1% of the ARfD.
	Population aged 2 years and above (worse 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 MRL</i> 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.

#### Fluazinam

Fluazinam was considered for an *All other foods except animal food commodities* MRL in FSANZ proposal M1015. However, the contribution to the total dietary exposure at the time exceeded 20%. Fluazinam was reconsidered in M1016 for An *All other foods except animal food commodities* MRL and a limit of 0.01 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 to *0.05 mg/kg (indicated by * on existing MRLs)
Lowest plant commodity MRL	*0.01 mg/kg
Magnitude of existing plant	The range of existing MRLs is *0.01 mg/kg [Brassica
commodity MRLs	(cole or cabbage) vegetables, Head cabbages,
	Flowerhead brassicas; Pome fruits; Potato] to *0.05
	mg/kg (Strawberry; Wine grapes).
Lowest plant commodity MRL that is	0.02 mg/kg
not the LOD	
Most relevant reference point to	0.02 mg/kg
minimise off-label use	
Consumption amount used in NEDI	41.23 g/kg bw/day
calculation for All other foods except	

animal commodities	
Chronic dietary exposure (NEDI)	7% of the ADI
considering existing permissions only	
Proposed All other foods except animal commodities MRL <sup>1</sup>	0.01 mg/kg
NEDI including <i>All other foods except</i> <i>animal commodities</i> MRL and existing permissions	8% of the ADI
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.01 mg/kg represents a contribution of 13% of the total
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 fluazinam because the APVMA HAT and
	the JMPR have not established an ARfD.
Conclusion	After considering the principles established and agreed in
	FSANZ proposal P1027, an All other foods except animal
	commodities 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.

#### Flucythrinate

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 deletion of permitted uses of flucythrinate in Australia.

#### 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 reviewed as part of M1016 and no change is proposed.

#### Flupyradifurone

An *All other foods except animal food commodities* MRL for flupyradifurone could not be established as there is only one Australian registered use with an MRL of \*0.01 mg/kg. Establishing an *All other foods except animal food commodities* MRL lower than the LOQ is not practical. Therefore no *All other foods except animal food commodities* MRL is proposed at this point in time.

#### Flusilazole

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 deletion of permitted uses of flusilazole in Australia.

#### 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 M1016 and no change is proposed.

#### Folpet

Folpet was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered use of Folpet in Australia.

#### Halosulfuron-methyl

An *All other foods except animal food commodities* MRL for Halosulfuron-methyl could not be established as even at the LOD, the contribution of *All other foods except animal food* 

*commodities* to total dietary exposure exceeded the 20% target. Consequently, there was no MRL that was practical. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Lambda-cyhalothrin (captured by cyhalothrin entries in Schedule 20)

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.

#### Mandestrobin

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)	0.01 mg/kg (as indicated by * in EU MRL database)
Lowest plant commodity MRL	3 mg/kg
Magnitude of existing plant	Currently there is one commodity (Stone fruit) listed in
commodity MRLs	Schedule 20 with an MRL of 3 mg/kg. With M10106
	entries, the range will be 0.5 mg/kg (Rape seed, Rape
	seed oil, edible) to 7 mg/kg (Dried grapes (currants,
	raisins, sultanas).
Lowest plant commodity MRL that is	0.5 mg/kg
not the LOD	
Most relevant reference point to	0.5 mg/kg
minimise off-label use	
Consumption amount used in NEDI	44.34 g/kg bw/day
calculation for All other foods except	
	4% of the ADI
Chronic dietary exposure (NEDI)	
considering existing permissions only Proposed All other foods except	0.05 mg/kg
animal commodities MRL <sup>1</sup>	0.03 mg/kg
NEDI including All other foods except	4% of the ADI
animal commodities MRL and	
existing permissions	
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.05 mg/kg represents a contribution of 3% to total
total chronic dietary exposure	dietary exposure which is within the 20% target and is
	considered acceptable.
Acute dietary exposure assessment	An acute dietary exposure assessment is considered
(NESTI)	unnecessary for mandestrobin because the APVMA HAT
	considers an ARfD unnecessary.
Conclusion	After considering the principles established and agreed in
	FSANZ proposal P1027, an All other foods except animal
	commodities 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.

#### Mesotrione

Mesotrione was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered use of mesotrione in Australia.

#### Metaflumizone

Metaflumizone was excluded from consideration of an All other foods except animal food

commodities MRL as there is no registered use of metaflumizone in Australia.

#### Metalaxyl-M (listed as Metalaxyl in Schedule 20)

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 M1016 and no change is proposed.

#### Methamidophos

Methamidophos 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.

#### Methidathion

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for methidathion is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Olaquindox

It was not considered appropriate at this time to establish an *All other foods except animal food commodities* MRL as all current uses are for animal commodities only. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Oxydemeton-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 deletion of permitted uses of oxydemeton-methyl in Australia.

#### Oxythioquinox

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 deletion of permitted uses of oxythioquinox in Australia.

#### Penthiopyrad

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for penthiopyrad is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Permethrin

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for permethrin is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Phenmedipham

Considerations	Comments
Limit of determination (LOD)	0.01 mg/kg (indicated by * in EU MRL database)
Lowest plant commodity MRL	0.5 mg/kg
Magnitude of existing plant	The range of existing MRLs is 0.5 mg/kg (Beetroot) to 2
commodity MRLs	mg/kg (Chard (silver beet))
Lowest plant commodity MRL that is	0.5 mg/kg
not the LOD	
Most relevant reference point to	0.5 mg/kg
minimise off-label use	
Consumption amount used in NEDI	45.83 g/kg bw/day

calculation for All other foods except	
animal commodities	
Chronic dietary exposure (NEDI)	6% of the ADI
considering existing permissions only	
Proposed All other foods except	0.02 mg/kg
animal commodities MRL <sup>1</sup>	
NEDI including All other foods except	6% of the ADI
animal commodities MRL and	
existing permissions	
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.02 mg/kg represents a contribution of 5% to total
total chronic dietary exposure	dietary exposure which is within the 20% target and is
	considered acceptable.
Acute dietary exposure assessment	An acute dietary exposure assessment is considered
(NESTI)	unnecessary for phenmedipham because the APVMA
	HAT consider an ARfD unnecessary.
Conclusion	After considering the principles established and agreed in
	FSANZ proposal P1027, an All other foods except animal
	commodities 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.

#### Phosmet

Considerations	Comments
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	The range of existing MRLs is *0.05 (cereal grains) to 15
commodity MRLs	(Kiwifruit).
Lowest plant commodity MRL that is not the LOD	1 mg/kg
Most relevant reference point to minimise off-label use	1 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	42.26 g/kg bw/day
Chronic dietary exposure (NEDI)	67% of the ADI
considering existing permissions only	
Proposed All other foods except animal commodities MRL <sup>1</sup>	0.05 mg/kg
NEDI including <i>All other foods except</i> <i>animal commodities</i> MRL and existing permissions	69% of the ADI
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.05 mg/kg represents a contribution of 3% to total
total chronic dietary exposure	dietary exposure which is within the 20% target, and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worse case - pineapples), 3% of the ARfD.
	Population aged 2 years and above (worse 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 MRL</i> 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.

#### Phosphine

Phosphine had previously been excluded from consideration of an *All other foods except animal food commodities* MRL because the majority of MRLs are listed in Schedule 20 are at the LOD of 0.01 mg/kg. As part of M1016, FSANZ received separate requests to consider MRLs at 0.01 mg/kg for berries and other small fruit; pome fruit; stone fruits; tropical and subtropical fruit with an inedible peel; and all fresh fruit and vegetables. Additionally, there are several commodities listed in the APVMA standard which are not included in Schedule 20. A precedence to use the US Environmental Protection Agency and or European Food Safety Authority HBGV (ADI and ARfD) for phosphine DEAs has been established for existing MRLs in Schedule 20 and therefore considered appropriate for this assessment. To align with registered uses in Australia and include the M1016 requests, FSANZ has considered all of the requests as *All other foods except animal food commodities* and an MRL of 0.01 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.01 to 0.1 mg/kg (indicated by * on existing MRLs)
Lowest plant commodity MRL	0.01 mg/kg
Magnitude of existing plant	The range of existing MRLs is 0.01 (Citrus fruits) to *0.1
commodity MRLs	mg/kg (cereal grains)
Lowest plant commodity MRL that is not the LOD	0.01 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>	34.05 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	2% of the ADI
Proposed All other foods except animal commodities MRL <sup>1</sup>	0.01 mg/kg
NEDI including <i>All other foods except</i> <i>animal commodities</i> MRL and existing permissions	2% of the ADI
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.01 mg/kg represents a contribution of 17% to total
total chronic dietary exposure	dietary exposure which is within the 20% target and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children 2-6 years of age (worse case - pineapples), 6% of the ARfD.
	Population aged 2 years and above (worse case - 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 MRL</i> 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.

#### Hydrogen phosphide (see Phosphine)

#### Pirimicarb

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for pirimicarb is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Prochloraz

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for prochloraz is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Profenofos

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for profenofos is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Propaquizafop

An *All other foods except animal food commodities* MRL for propaquizafop could not be established as even at the LOD, the contribution of *All other foods except animal food commodities* to total dietary exposure exceeded the 20% target. Consequently, there was no MRL that was practical. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Propargite

Propargite 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.

#### Pyraclostrobin

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for pyraclostrobin was proposed as part of routine dietary exposure assessments and supported by the APVMA but is yet to be included in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Pyridate

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 uses of pyridate in Australia.

#### Pyrimethanil

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for pyrimethanil is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Quinoxyfen

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for quinoxyfen is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Quizalofop-P-ethyl (in Schedule 20 under Quizalofop-ethyl)

Considerations	Comments
Limit of determination (LOD)	*0.01 mg/kg to *0.05 mg/kg (indicated by * on existing

	MRLs)
Lowest plant commodity MRL	*0.01 mg/kg
Magnitude of existing plant	The range of existing MRLs is *0.01 (Cabbages, head;
commodity MRLs	Potato) to 0.2 mg/kg (Pulses).
Lowest plant commodity MRL that is	0.2 mg/kg
not the LOD	••= ···g/··g
Most relevant reference point to	0.02 mg/kg
minimise off-label use	5 5
Consumption amount used in NEDI	40.90 g/kg bw/day
calculation for All other foods except	
animal commodities	
Chronic dietary exposure (NEDI)	14% of the ADI
considering existing permissions only	
Proposed All other foods except	0.01 mg/kg
animal commodities MRL <sup>1</sup>	
NEDI including All other foods except	15% of the ADI
animal commodities MRL and	
existing permissions	
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.01 mg/kg represents a contribution of 3% to total
total chronic dietary exposure	dietary exposure which is within the 20% target and is
	considered acceptable.
Acute dietary exposure assessment	An acute dietary exposure assessment is considered
(NESTI)	unnecessary for quizalofop-ethyl because the APVMA HAT and JMPR have not established an ARfD.
Conclusion	After considering the principles established and agreed in
	FSANZ proposal P1027, an All other foods except animal
	<i>commodities MRL</i> 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.

#### Quizalofop-P-tefuryl

Considerations	Comments
Limit of determination (LOD)	*0.01 mg/kg to *0.05 mg/kg (indicated by * on existing
	MRLs)
Lowest plant commodity MRL	*0.01 mg/kg
Magnitude of existing plant	The range of existing MRLs is *0.01 (Cabbages, head;
commodity MRLs	Potato) to 0.2 mg/kg (Pulses).
Lowest plant commodity MRL that is	0.2 mg/kg
not the LOD	
Most relevant reference point to	0.02 mg/kg
minimise off-label use	
Consumption amount used in NEDI	40.91 g/kg bw/day
calculation for All other foods except	
animal commodities	
Chronic dietary exposure (NEDI)	14% of the ADI
considering existing permissions only	
Proposed All other foods except	0.01 mg/kg
animal commodities MRL <sup>1</sup>	
NEDI including All other foods except	15% of the ADI

animal commodities MRL and existing permissions	
Percentage contribution of All other foods except animal commodities to total chronic dietary exposure	An <i>All other foods except animal commodities MRL</i> of 0.01 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)	An acute dietary exposure assessment is considered unnecessary for quizalofop-p-tefuryl because the APVMA HAT and JMPR have not established an ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities MRL</i> 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.

#### Rimsulfuron

An *All other foods except animal food commodities* MRL for rimsulfuron could not be established as even at the LOQ, the contribution of *All other foods except animal food commodities* to total dietary exposure exceeded the 20% target. Consequently, there was no MRL that was practical. Therefore no *All other foods except animal food commodities* MRL is proposed.

#### Saflufenacil

An MRL of 0.03 mg/kg for *All other foods except animal food commodities* for saflufenacil is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.

#### Sethoxydim

Sethoxydim was considered for an *All other foods except animal food commodities* MRL in FSANZ proposal M1014 but no MRL was proposed. Sethoxydim was reconsidered in M1016 for An *All other foods except animal food commodities* MRL and a limit of 0.1 mg/kg is proposed based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	0.1 mg/kg (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 *0.01 (Barley; Broad bean (green pods and immature seeds); Celery; Coriander (leaves, roots and stems); Coriander, seed; Eggplant; Fruiting vegetables, Cucurbits; Pulses [except lupin (dry)]; Rhubarb; Sunflower seed; Tomato; Wheat) to 3 mg/kg (Peanut)
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>	38.80 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	52% of the ADI
Proposed All other foods except animal commodities MRL <sup>1</sup>	0.1 mg/kg

NEDI including <i>All other foods except</i> <i>animal commodities</i> MRL and existing permissions	56% of the ADI
Percentage contribution of <i>All other</i> foods except animal commodities to total chronic dietary exposure	An <i>All other foods except animal commodities MRL</i> of 0.1 mg/kg represents a contribution of 7% 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 sethoxydim because the APVMA HAT and JMPR have not established an ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities MRL</i> 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.

#### 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 M1016 and no change is proposed.

#### Sulprofos

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 deletion of permitted uses of sulprofos in Australia.

#### Tebufenozide

Considerations	Comments
Limit of determination (LOD)	0.05 mg/kg (indicated by * in EU MRL database)
Lowest plant commodity MRL	T0.05 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is T0.05 (Pistachio nuts) 0.05 (Macadamia nuts) to 4 (Dried grapes).
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>	41.04 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	34% of the ADI
Proposed All other foods except animal commodities MRL <sup>1</sup>	0.05 mg/kg
NEDI including <i>All other foods except</i> <i>animal commodities</i> MRL and existing permissions	35% of the ADI
Percentage contribution of All other foods except animal commodities to total chronic dietary exposure	An All other foods except animal commodities MRL of 0.05 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 (worse case - pineapples), 1% of the ARfD. Population aged 2 years and above (worse 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 MRL</i> 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.

#### Tebufenpyrad

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)	0.02 mg/kg (indicated by * on existing MRLs)
Lowest plant commodity MRL	*0.02 mg/kg
Magnitude of existing plant	The range of existing MRLs is *0.02 (cucumber) to 1
commodity MRLs	mg/kg (Peach; Pome fruits)
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>	43.98 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions only	27% of the ADI
Proposed All other foods except animal commodities MRL <sup>1</sup>	0.02 mg/kg
NEDI including All other foods except	32% of the ADI.
animal commodities MRL and	The estimated dietary exposure initially exceeded the
existing permissions	HBGV, however it was refined using occurrence data for apples from the 23 <sup>rd</sup> ATDS.
Percentage contribution of All other	An All other foods except animal commodities MRL of
foods except animal commodities to	0.02 mg/kg represents a contribution of 14% to total
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 tebufenpyrad because the APVMA HAT and JMPR have not established an ARfD.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities MRL</i> 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.

#### Teflubenzuron

Teflubenzuron was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered use of teflubenzuron in Australia.

#### Terbacil

An *All other foods except animal food commodities* MRL for terbacil could not be established as even at the LOQ, the contribution of *All other foods except animal food commodities* to total dietary exposure exceeded the 20% target. Consequently, there was no MRL that was practical or could manage off-label use.

#### Tetrachlorvinphos

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 deletion of permitted uses of tetrachlorvinphos in Australia.

#### Tetradifon

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 deletion of permitted uses of tetradifon in Australia

#### Thiamethoxam

Thiamethoxam was not considered for an All other foods except animal food commodities MRL at this point in time as the M1016 request is for a residue definition change only.

#### Thiometon

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 deletion of permitted uses of thiometon in Australia.

#### Thiophanate-methyl

Thiophanate-methyl was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered food uses of thiophanate-methyl in Australia.

#### Tolylfluanid

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 deletion of permitted uses of tolylfluanid in Australia.

#### Trichloroethylene

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 deletion of permitted uses of trichloroethylene in Australia.

#### Triflumizole

Triflumizole was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered use of triflumizole in Australia.

#### Trifluralin

An MRL of 0.01 mg/kg for *All other foods except animal food commodities* for trifluralin is currently listed in Schedule 20. This MRL was reviewed as part of M1016 and no change is proposed.