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Supporting document 1

Proposal M1022 – 2023 MRL Harmonisation Proposal

Risk assessment and proposed MRL changes

Executive summary

Proposal M1022 seeks to align maximum residue limits (MRLs) for agricultural and veterinary (agvet) chemicals listed in Schedule 20 of the Australia New Zealand Food Standards Code (the Code). Following a two month call for requests ending on 22 September 2023, FSANZ received requests from 12 industry stakeholders seeking MRL harmonisation to Codex and two trading partner MRLs. A request was also received from the Australian Pesticides and Veterinary Medicines Authority (APVMA) which included MRL reductions and deletions, a residue definition update and replacement of temporary MRLs with permanent MRLs. FSANZ also considered Codex MRLs recommended by the 2023 Codex Committee on Pesticide Residues and adopted at the 2023 Codex Alimentarius Commission meeting. In total, FSANZ considered MRL changes for 124 agvet chemicals and 403 chemical-commodity pairs.

Requests were received for 12 chemicals not listed in Schedule 20, of which three were accepted. The chemicals excluded from further consideration were deemed not suitable for the MRL harmonisation proposal process. No antibiotics were considered in the proposal.

For requests to increase an existing MRL or to insert a new MRL, FSANZ undertook a dietary exposure assessment (DEA) using Australian food consumption data. This assessment uses internationally-accepted methodologies, has been included in the APVMA's risk assessment framework for approving and registering agricultural chemical products for use in Australia, and is the process used by both the APVMA and FSANZ for establishing and reviewing MRLs in Schedule 20 of the Code.

As part of the DEA, a determination of chronic (long-term/life-time) exposure to each chemical is assessed. A determination of acute (short-term) exposure is only performed when a health-based guidance value has been established for short term effects. The acute risk assessment focuses on exposure to children and the general population, and may include women of childbearing age (16–44 years) if relevant.

An additional assessment was conducted for those agvet chemicals being considered in M1022 to determine their suitability for the establishment of an *All other foods except animal food commodities* MRL. For agvet chemicals with an existing *All other foods except animal food commodities* MRL, the limit was reviewed. The assessment process for this MRL category followed the principles set out in Proposal P1027 – Managing Low-level Ag & Vet Chemicals without Maximum Residue Limits. The proposed MRLs for this category allow for

low level inadvertent presence of chemical residues in food following legitimate use, but are low enough to limit the potential for 'off-label' use.

The dietary exposure estimates for all chemicals with proposed MRLs in M1022 are below relevant health-based guidance values, indicating negligible health and safety concerns for 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 [Appendix 1](#) of this document. The summaries of existing or proposed *All other foods except animal food commodities* MRLs are set out in [Appendix 2](#).

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Glossary of terms

ADI	acceptable daily intake
agvet	agricultural and veterinary chemical
AMR	antimicrobial resistance
APVMA	Australian Pesticides and Veterinary Medicines Authority
ARfD	acute reference dose
The Code	Australian New Zealand Food Standards Code
Codex	Codex Alimentarius Commission
DEA	dietary exposure assessment
HBGV	health-based guidance value
JECFA	Joint Food and Agriculture Organization / World Health Organization Expert Committee on Food Additives
JMPR	Joint Food and Agriculture Organization / World Health Organization Meeting on Pesticide Residues
MRL	maximum residue limit
NEDI	national estimated daily intake
NESTI	national estimated short-term intake
NNPAS	National Nutrition and Physical Activity Survey
STMR	supervised trials median residue

Introduction

FSANZ raised Proposal M1022 upon receiving requests from 12 industry stakeholders seeking harmonisation of maximum residue limits (MRLs) in Schedule 20 of the Australian New Zealand Food Standards Code (the Code) to those used by various trading partners or Codex. These MRLs reflect legitimate international use of permitted agricultural and veterinary (agvet) chemicals in the production of food commodities. A request was also received from the Australian Pesticides and Veterinary Medicines Authority (APVMA), which includes the proposed removal or reduction of certain MRLs that may affect food importers. FSANZ also considered Codex MRLs recommended by the 2023 Codex Committee on Pesticide Residues (CCPR) and adopted at the 2023 Codex Alimentarius Commission (CAC) meeting. In total, FSANZ considered MRL changes for 124 agvet chemicals and 403 chemical-commodity pairs.

For each chemical considered in this proposal, either an assessment was conducted to establish an *All other foods except animal food commodities* MRL or an existing *All other foods except animal food commodities* MRL was reviewed. Assessment and assignment of this MRL category followed the principles set out in [Proposal P1027 – Managing Low-level Ag & Vet Chemicals without Maximum Residue Limits](#)¹.

The methods used for the safety assessments are consistent with internationally-accepted methodologies, 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.

Pre-assessment chemical and MRL review

Consideration of chemicals not listed in Schedule 20

FSANZ received requests for 12 agvet chemicals which are not currently listed in Schedule 20 (see [Table 1](#)).

Table 1: Chemicals not yet listed in Schedule 20

	Agvet chemical	MRL source	Decision
1	Azocyclotin	EU	Chemical captured by another chemical in Schedule 20
2	Carbosulfan	EU	Chemical captured by another chemical in Schedule 20
3	Dimethipin	EU	Chemical not permitted for use at food commodity source
4	1,4-dimethylnaphthalene	EU	Chemical meets harmonisation requirements
5	Disulfoton	EU	Chemical not permitted for use at food commodity source
6	Flufenoxuron	EU	Chemical not permitted for use on the food commodity in the EU
		Codex	Chemical meets harmonisation requirements for the food commodities requested
7	Fluindapyr	Codex	Chemical meets harmonisation requirements
8	Mecoprop	EU	Chemical not permitted for use at food commodity source
9	Oxydemeton-methyl	EU	Chemical not permitted for use at food commodity source
10	Parathion	EU	Chemical not permitted for use at food commodity source
11	Phosalone	EU	Chemical not permitted for use at food commodity source
12	Tolyfluanid	EU	Chemical not permitted for use at food commodity source

1. P1027 - www.foodstandards.gov.au/food-standards-code/proposals/P1027. Accessed 11 January 2024.

Chemical captured by another chemical entry in Schedule 20: Azocyclotin is captured by cyhexatin and carbosulfan by carbofuran, in Schedule 20. There is no requirement to add new entries for these chemicals.

Chemical not permitted for use at food commodity source: Requests were received seeking harmonisation to eight herb MRLs listed in the EU, where the chemicals were determined to have no permission for use in the EU, indicating these levels are import tolerances or emergency permissions. As stipulated in Section 4.2.1 in the [Guide to submitting requests for maximum residue limit \(MRL\) harmonisation proposals](#)², FSANZ will only consider requests to harmonise MRLs in the Code where the MRL has been established by the chemical regulator that sets permissions of use in the country or jurisdiction where the food commodity is grown or produced. These MRL harmonisation requests were excluded from the M proposal.

Chemical meets harmonisation requirements: An evaluation by the toxicology team at FSANZ of the three chemicals: 1,4-dimethylnaphthalene, flufenoxuron and fluindapyr; identified JMPR as a competent authority that has evaluated these chemicals. They confirmed that JMPR has established toxicology-associated HBGVs and suitable residue definitions that meet FSANZ requirements. No further evidence of hazards was identified.

A microbiological assessment confirmed that the chemicals are not currently listed as high or medium importance antimicrobials to human health³. While microbiological HBGVs were considered by JMPR, no microbiological HBGVs have been established. JMPR was unable to identify data for antimicrobial activity or impact on the human gut microbiome. FSANZ was also unable to identify evidence of more conservative HBGVs that have considered microbiological effects or further evidence of the need for microbiological HBGVs.

The APVMA confirmed that these chemicals are not currently registered or have approved uses in Australia and are therefore not part of their [chemical review program](#)⁴.

Consideration of chemicals already listed in Schedule 20

Requests were received seeking harmonisation to commodity MRLs for diazinon, diquat, fenitrothion and paraquat. The review of these chemicals by the APVMA is currently in progress therefore the MRL requests were excluded from the M proposal. Once the APVMA has published and implemented the final regulatory decisions, requestors are encouraged to resubmit their requests, if still applicable.

FSANZ also received requests for 36 chemical MRLs where the chemicals are not permitted for use in the source country of the food commodity. These levels are considered to be import tolerances or emergency permissions and do not meet the requirements stipulated in Section 4.2.1 in the [Guide to submitting requests for maximum residue limit \(MRL\) harmonisation proposals](#). These requests were excluded from the M proposal.

Consideration of recently adopted Codex MRLs

FSANZ undertook a review of the MRLs proposed by the 2023 CCPR and adopted by the 46th session of the CAC. There are specific criteria applied to this review before a Codex

2. FSANZ's Guide to submitting requests for maximum residue limit (MRL) harmonisation proposals: <https://www.foodstandards.gov.au/publications/Guide-for-Submitting-Requests-for-MRL-Proposals>. Accessed 14 April 2024.

3. Importance ratings and summary of antibacterial uses in human and animal health in Australia, June 2018, Office of Health Protection, Australian Government Department of Health, Canberra. www.amr.gov.au/resources/importance-ratings-and-summary-antibacterial-uses-human-and-animal-health-australia. Accessed 22 July 2024.

4. The APVMA Chemical Review program <https://apvma.gov.au/node/10916>. Accessed 11 January 2024.

MRL will be accepted for inclusion in the harmonisation proposal. The criteria includes that the MRL is:

- higher than the relevant existing Schedule 20 MRL
- higher than a harmonisation request to align with another trading partner MRL
- higher than an existing *All other foods except animal food commodities* MRL
- at the same limit as a temporary ('T') status MRL for the same commodity/group
- supported by the APVMA, and
- supported by acceptable DEA results.

Where Codex is deleting an MRL and this deletion would remove an MRL for a domestically approved use pattern for a registered chemical, FSANZ would not proceed with the deletion unless it was supported and agreed to by the APVMA. Similarly, if a food commodity MRL proposed to be deleted by Codex is an existing Schedule 20 MRL as a result of a prior harmonisation proposal request from a third party, and that MRL is still applicable, no action will be taken to remove the MRL from the Code.

Not all recently adopted Codex MRLs progressed to the stage of dietary exposure estimates during the risk assessment process for M1022. Codex MRLs determined suitable for inclusion proceeded through the same DEA process as for all other requests.

The dietary exposure assessments

Chronic dietary exposure assessments

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

The estimated mean exposures from each food commodity are 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 kilogram of body weight per day (g/kg bw/day) 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 as appropriate. The NEDI calculation may also take into account factors such as the proportion of the crop or commodity treated with the chemical, the residues in edible portions and the effects of processing and cooking on the residue levels. Chemical concentration data from monitoring and surveillance activities or the Australian Total Diet Studies may also be used if necessary.

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

- the agricultural chemical will be used on all crops for which there is a registered use or an approved permit
- treatment occurs at the maximum application rate

- the maximum number of permitted treatments have been applied
- the minimum withholding period applies, and
- 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 ADI in [Appendix 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.

Acute dietary exposure assessments

The national estimated short-term intake (NESTI) is used to estimate acute (short-term) dietary exposure. Acute DEAs are undertaken where the APVMA has set an acute reference dose (ARfD) for a chemical or advised it is appropriate to use a JMPR ARfD. The established ARfD is used for NESTI assessments for the population aged 2 years and above and children 2–6 years old. An acute DEA is only undertaken for women of childbearing age (16–44 years old) where a specific ARfD for this group is established.

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

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

Food consumption data used in the dietary exposure assessments

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 g/kg bw/day for

the whole population aged 2 years and above, where each individual's consumption of a commodity is divided by their own body weight before the summary population statistics are derived.

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

NESTI calculation

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

Similar to the data set used for the NEDI, 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=15,470) with a single day of food recall data. The 97.5th percentile of consumption represents a high consumer of the particular food commodity from a single meal or over a 24-hour period, and is also termed the 'large portion'. For the calculations used by FSANZ, consumption from a 24-hour period is used.

Acute dietary exposure assessments are undertaken for the general population but also for some population sub-groups, including children. This may also apply when ARfDs for chemicals are set for specific population sub-groups, such as women of childbearing age. Therefore, large portion food consumption data were derived for three population sub-groups: the entire population aged two years and above; children aged 2–6 years; and women of childbearing age (16–44 years).

All other foods except animal food commodities MRLs

All agvet chemicals that require a DEA were considered for suitability for setting an *All other foods except animal food commodities* MRL (see [Appendix 2](#)), 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.

In P1027, FSANZ indicated that chemicals would be assessed for an *All other foods except animal food commodities* MRL as part of ongoing amendments to Schedule 20 of the Code undertaken by the APVMA based on chemical registration applications, any reviews the APVMA undertakes, and FSANZ's annual MRL harmonisation process. In addition to considering agvet chemicals requested in the harmonisation proposal where an *All other foods except animal food commodities* MRL has not been established, FSANZ is progressing this consideration for all remaining chemicals listed in Schedule 20 to the extent possible. Resources do not allow all of them to be considered all at once.

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

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

Other proposed changes to MRL-related standards

Oilseed commodity review – what entries capture peanuts?

An M1022 stakeholder notified FSANZ that with the current oilseed entries in Schedule 20, there was no way to determine which entries capture the commodity peanuts. At the time of this request, there were entries in Schedule 20 aligned to the Codex Oilseed Group 23 (SO 0088), which included the commodities SO 4713 *Groundnut*, SO 0697 *Peanut* and SO 0703 *Peanut, whole*. There were also MRLs in Schedule 20 aligned to the US Crop Group 20 Oilseeds, which excludes peanuts. As Schedule 20 does not include details about the origin to which the MRLs are aligned, FSANZ agreed that it is unclear which oilseed MRL entry captured peanuts.

Codex also recently completed an update to the food classification of plant commodities, where the Codex Group 23 Oilseed entry SO 0088 was changed to *Oilseeds and oilfruits*. Furthermore, a new subgroup was created called *Oilseeds* (SO 0091), which aligns more closely to the US Oilseeds group, where peanuts are excluded. These changes are reflected in the updated [Schedule 22 – Foods and classes of foods](#)⁵.

In order to provide clarity to stakeholders and enforcement agencies as to which oilseed entries in the Code capture peanuts, FSANZ in collaboration with the APVMA undertook a review of all the oilseed and peanut commodity entries in Schedule 20. The results of this review is a proposal to amend the commodity names of the oilseed entries as outlined in [Table 2](#). The substituted oilseed entry names are:

- Oilseeds (subgroup)
 - aligns to the Codex subgroup SO 0091
 - captures *small seed oilseeds* (SO 2090), *sunflower seeds* (SO 2091) and *cotton seed* (SO 0691)
 - excludes *peanuts*

5. Schedule 22 – Foods and classes of foods: <https://www.legislation.gov.au/F2015L00433/latest/text>

- Oilseeds and oilfruits
 - aligns to the Codex group SO 0088
 - captures all commodities listed in this group, including *peanuts*.

Two qualifiers are being added to the commodity name in these amendments, to further clarify how to apply the associated MRL:

- (a) the qualifier [except *commodity*] has been used if the MRL does not apply to all commodities typically captured by the oilseed entry. The exceptions may be related to a separate commodity entry with a different MRL existing in Schedule 20 or because the chemical is not permitted for use on the excluded commodity.
- (b) the qualifier (*subgroup*) has been used to provide clarity that the MRL applies to the subgroup *Oilseeds* identified in Schedule 22 and Codex.

Table 2: Summary of the oilseed commodity name changes resulting from the commodity name review

Chemical	Pre-M1022 Commodity name	Post-M1022 Commodity name
Amitrole	Oilseed	Oilseeds (subgroup)
Bixafen	Oilseed [except cotton seed]	Oilseeds (subgroup) [except cotton seed]
Boscalid	Oilseed	Oilseeds (subgroup)
Buprofezin	Oilseeds [except cotton seed]	Oilseeds (subgroup) [except cotton seed]
Butoxydim	Oilseed	Oilseeds (subgroup)
Carbaryl	Oilseed [except cotton seed]	Oilseeds (subgroup) [except cotton seed]
2,4-D	Oilseed	Oilseeds and oilfruits [except oilfruits]
Deltamethrin	Oilseed	Oilseeds (subgroup)
Dichlorvos	Oilseed [except peanut]	Oilseeds and oilfruits [except oilfruits]
Diclofop-methyl	Oilseed	Oilseeds (subgroup)
Dimethoate	Oilseed [except cotton seed; peanut]	Oilseeds (subgroup) [except cotton seed]
Diuron	Oilseed	Oilseeds (subgroup)
EPTC	Oilseed	Oilseeds (subgroup)
Fenvalerate	Oilseed [except peanut]	Oilseeds and oilfruits [except oilfruits; peanut]
Fipronil	Oilseed	Oilseeds (subgroup)
Fluazifop-p-butyl	Oilseed [except peanut]	Oilseeds (subgroup)
Fluensulfone	Oilseeds	Oilseeds (subgroup)
Flumioxazin	Oilseed	Oilseeds and oilfruits [except oilfruits]
Fluopyram	Oilseed	Oilseeds (subgroup)

Chemical	Pre-M1022 Commodity name	Post-M1022 Commodity name
Flutriafol	Oilseed [except mustard seeds; peanut; rape seed (canola)]	Oilseeds and oilfruits [except mustard seeds; oilfruits; peanut; rape seed (canola)]
Glufosinate and Glufosinate-ammonium	Oilseed [except cotton seed; mustard seeds; rape seed (canola)]	Oilseeds (subgroup) [except cotton seed; mustard seeds; rape seed (canola)]
Metaldehyde	Oilseed	Oilseeds (subgroup)
Metazachlor	Oilseeds	Oilseeds (subgroup)
Omethoate	Oilseed [except cottonseed; peanut]	Oilseeds and oilfruits [except cotton seed; oilfruits; peanut]
Pendimethalin	Oilseed	Oilseeds and oilfruits [except peanut]
Phosphine	Oilseed [except peanut]	Oilseeds (subgroup)
Piperonyl butoxide	Oilseed	Oilseeds (subgroup)
Propaquizafop	Oilseed	Oilseeds (subgroup)
Pyraclostrobin	Oilseed [except peanut]	Oilseeds and oilfruits [except oilfruits; peanut; poppy seed]
Pyrethrins	Oilseed	Oilseeds (subgroup)
Saflufenacil	Oilseed [except cotton seed; linseed; mustard seed; rapeseed; sunflower seed]	Oilseeds (subgroup) [except cotton seed; linseed; mustard seed; rape seed (canola); sunflower seed]
Triallate	Oilseed	Oilseeds (subgroup)
Trichlorfon	Oilseed [except peanut]	Oilseeds (subgroup)
Trifluralin	Oilseed	Oilseeds (subgroup)

With the proposed changes to the oilseed commodity names outlined in Table 2, FSANZ is proposing subsequent amendments to some oilseed commodities listed under the same chemical. For example, the proposed Oilseeds (subgroup) entry for diclofop-methyl will capture the existing entry for poppy seed. A proposed deletion of the poppy seed entry will thus negate the need for two entries. Subsequent amendments are also proposed for olives entries, where the permissions for use apply differently to olives for oil production (SO 0305) and table olives (FT 0305). These changes are outlined in Table 3.

Table 3: Amendments to accommodate the proposed oilseed commodity changes

Chemical	Pre-M1022 MRL	Post-M1022 MRL	Origin of new MRL	Reason for change
Buprofezin				
Olives	T0.5	None		
Table olives	None	5	Codex	
Diclofop-methyl				
Poppy seed	0.1	None		Updated subgroup entry identified in Table 2 will capture this commodity.
Glyphosate				
Mustard seeds	20	None		Commodity being replaced by Small seed oilseeds entry.
Oilseed [except cotton seed; linseed; mustard seeds; peanut; poppy seed; rape seed (canola); safflower seed; sesame seed; sunflower seed]	T*0.1	None		Entry being replaced with commodity and subgroup entry MRLs, in order to provide clarity to which commodities the MRL applies.
Poppy seed	20	None		Commodity being replaced by Small seed oilseeds entry.
Rape seed (canola)	20	None		Commodity being replaced by Small seed oilseeds entry.
Sesame seed	20	None		Commodity being replaced by Small seed oilseeds entry.
Small seed oilseeds [except linseed]	None	20	APVMA	New subgroup entry.
Hempseed	None	T*0.1	APVMA	Commodity that has <i>permission of use</i> being added to accommodate removal of the oilseed group entry listing.
Pyraclostrobin				
Sunflower seed	T0.3	None		Updated subgroup entry identified in Table 2 will capture this commodity.
Saflufenacil				
Rapeseed	0.6	None		Amending the commodity to be consistent with other Schedule 20 entries and to align to Schedule 22.
Rape seed (canola)	None	0.6	APVMA	

During the review of the oilseed entries in Schedule 20, 17 peanut and 25 palm nut entries were identified as not being associated with a legitimate MRL. These entries were added as part of the consequential amendments of Schedule 20 through proposal M1019 – Review of Schedule 22. As a response to these findings, the following peanut ([Table 3](#)) and palm nut ([Table 4](#)) entries are being proposed for removal from Schedule 20.

Table 4: Peanut entries proposed for deletion

Chemical			
Amitrole	2,4-D	Fipronil	Propaquizafop
Buprofezin	Deltamethrin	Fluensulfone	Triallate
Butroxydim	Diclofop-methyl	Glufosinate and Glufosinate-ammonium	
Carbaryl	Diuron	Metaldehyde	
Cyantraniliprole	EPTC	Metazachlor	

Table 5: Palm nut entries proposed for deletion

Chemical			
Amitrole	Deltamethrin	Fluopyram	Propaquizafop
Bixafen	Diclofop-methyl	Glufosinate and Glufosinate-ammonium	Pyrethrins
Buprofezin	Diuron	Metaldehyde	Saflufenacil
Butroxydim	EPTC	Metazachlor	Triallate
Carbaryl	Fipronil	Omethoate	
Cyantraniliprole	Fluensulfone	Pendimethalin	
2,4-D	Flumioxazin	Piperonyl butoxide	

The review further identified four peanut entries and one palm nut entry associated with the M1019 amendments where a legitimate Codex or trading partner MRL exists. FSANZ is therefore proposing to align with these existing MRLs to maintain these commodity MRLs in the Code ([Table 5](#)).

Table 6: Proposed MRL changes to existing peanut and palm nut entries

Chemical	Pre-M1022 Commodity and MRL (mg/kg)	Post-M1022 Commodity and MRL (mg/kg)
Boscalid	Palm nuts, 3.5	Palm nuts, 1
Flumioxazin	Peanut, *0.1	Peanut, *0.02
Piperonyl butoxide	Peanut, 8	Peanut, 1
Pyrethrins	Peanut, 1	Peanut, 0.5
Saflufenacil	Peanut, *0.03	Peanut, *0.01

Schedule 20 commodity name corrections

A stakeholder recently identified and reported several commodity name inconsistencies in Schedule 20. In evaluating the commodity names, FSANZ has agreed that these names are inconsistent with the updated Schedule 22 – Foods and classes of food and is proposing the following amendments (Table 7). There are no changes to the commodity MRLs.

Table 7: Proposed corrections of commodity name inconsistencies in Schedule 20

Chemical	Pre-M1022 Commodity name	Post-M1022 Commodity name
Carbendazim	Blackberry	Blackberries
Dimethoate	Currant, black, red, white	Currants, black, red, white
Dodine	All other foods, except animal food commodities	All other foods except animal food commodities
Flupyradifurone	Blueberry	Blueberries
Folpet	Peppers, sweet, chili	Peppers, chili
		Peppers, sweet
Mefentrifluconazole	Dried grapes (equals currants; sultanas)	Dried grapes [except raisins]
	Dried grapes (raisins)	Raisins
	Lentils, dry	Lentil (dry)
	Melons (including watermelon)	Melons, except watermelon
Watermelon		
Metconazole	Maize (not including sweet corn)	Maize
	Peaches (including apricots; nectarines)	Peaches (subgroup)
Oxathiapiprolin	Hops, dried cones	Hops, dry
Pyrimethanil	Almond	Almonds

Other Schedule 20 corrections

During the assessment stage of M1022, the following errors were identified in Schedule 20. FSANZ is proposing to correct these errors as outlined in Table 8.

Table 8: Proposed corrections to Schedule 20

Chemical	Pre-M1022 entry	Post-M1022 entry	Reason for the proposed change
Carbofuran	Sunflower seed, 0.1 mg/kg	Sunflower seed, *0.1 mg/kg	The MRL was mis-transcribed during the preparation of the M1001 compilation.
Fludioxonil	Brassica leafy vegetables [except radish leaves]	None	With the existing group entry <i>Leafy vegetables</i> at the same MRL, there is no requirement for this commodity entry to be listed.
	Leafy vegetables [except broccoli, Chinese (Gai lan); witloof chicory]	Leafy vegetables [except witloof chicory (sprouts)]	Commodity name being amended to restore permissions of sale related to current permissions of use requirements.

Chemical	Pre-M1022 entry	Post-M1022 entry	Reason for the proposed change
Pyraclostrobin	Broccoli, Chinese (Gai lan), T1	None	The temporary MRL for this commodity is no longer current and there is no permissions for use at this MRL.
	Flowerhead brassicas (including broccoli; broccoli, Chinese (Gai lan); cauliflower)	Flowerhead brassicas	Commodity name being amended to align with Schedule 22 and Codex.
Triflumuron	Hops, dry	None	Commodity was mistakenly added to this chemical entry in M1010. No MRL exists for this chemical in Australia or internationally.

Appendix 1

Results of the dietary exposure assessments for requested MRL changes

For all MRLs proposed in M1022, 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 9. Summaries of DEAs for the proposed *All other foods except animal food commodities* MRLs for all chemicals considered are set out in the Appendix 2 to this document. The Interpretive Guide (Figure 1) is only an example that provides relevant information to assist with interpreting Table 9.

Figure 1: Interpretive guide to the proposed MRL changes

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2-6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16-44 years
Folpet							<1			
Marjoram (oregano)	None	*0.06	New	EU	Thyme (0256070)			NR	NR	<1
Fosetyl-aluminium							7			
Banana			New	EU				NR	NR	NR
Pome fruits			New	Codex		Pome fruits, 50 (2018)		NR	NR	NR
Indoxacarb							73			
Beans with pods	0.9	None	Repeal					NR	NR	NR
Tree nuts	T0.02	None	Repeal					NR	NR	NR
Beans with pods	None	0.9	New	CCPR54				<1	1	NR
Tree nuts		0.07	New	CCPR54				<1	<1	NR
Edible offal (mammalian) (kidney)		0.05	Increased	CCPR54		Edible offal (mammalian), 0.05 (2010)		<1	<1	NR
Inpyrflumax							12			

Amended MRL being proposed

Pre-proposal MRL, as listed in Schedule 20

MRL change action: new, increased, decreased, repeal, substitution

To whom the MRL is being aligned: APVMA, Codex or trading partner

The national estimate of daily intake (NEDI), which is an assessment of the long-term exposure of the Australian consumer, compared to the acceptable daily intake (ADI). Provided for all chemicals, except repealed and decreased MRLs.

The national estimate of short-term intake (NESTI), which is an assessment of the acute exposure of the Australian consumer, compared to the acute reference dose (ARfD). Not all chemicals have an ARfD. The NESTI reflects the worst-case scenario. Not provided for chemicals where an MRL is being repealed or decreased.

The * indicates the MRL is at the limit of detection and no residues are expected

Agvet chemical and commodity to which the proposed MRL applies

The T indicates a temporary MRL

Provided when the commodity name at the source country, differs from the name adopted by FSANZ

If an ARfD has not been established for a chemical or the MRL is being repealed or decreased, the NESTI calculation is not required (NR)

Table 9: Summary of the requested commodities, proposed MRLs progressed and their dietary exposure estimates

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
1,4-dimethylnaphthalene							9			
Potato	None	20	New	EU				NR	NR	NR
Acibenzolar-S-methyl							6			
Marjoram (oregano)	None	0.3	New	EU	Thyme (0256070)			1	<1	NR
Aclonifen							<1			
Marjoram (oregano)	None	0.8	New	EU	Thyme (0256070)			NR	NR	NR
Afidopyropen							3			
Sorghum, grain	None	0.2	New	CCPR54 ⁶				<1	<1	<1
Edible offal (mammalian)	0.2	0.3	Increased	CCPR54		Edible offal (mammalian), 0.2 (2021)		<1	<1	<1
Poultry fats	*0.01	0.015	Increased	CCPR54		Poultry fats, *0.01 (2021)		<1	<1	<1
Azoxystrobin							50			
Beetroot	T*0.005	None	Repeal	FSANZ				NR	NR	NR
Carrot	0.2	None	Repeal	FSANZ				NR	NR	NR
Horseradish	0.5	None	Repeal	FSANZ				NR	NR	NR
Radish	0.5	None	Repeal	FSANZ				NR	NR	NR
Papaya	None	4	New	CCPR54		Papaya, 0.3 (2009)		NR	NR	NR
Root and tuber vegetables [except potato; sugar beet]	None	1	New	CCPR54		Root and tuber vegetables [except potato], 1 (2014)		NR	NR	NR
Sugar beet	None	4	New	CCPR54				NR	NR	NR
Mango	0.5	4	Increased	CCPR54		Mango, 0.7 (2009)		NR	NR	NR
Benzovindiflupyr							8			
Maize	None	0.02	New	CCPR54				<1	<1	NR
Popcorn	None	0.02	New	CCPR54				<1	<1	NR

6. CCPR54 – Codex committee on pesticide residues, meeting number 54 (2023)

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Bifenthrin							54			
Avocado	T0.1	0.5	Increased	CCPR54				63	23	NR
Peppers, chili, dried	5	4	Decreased	CCPR54		Peppers, chili, dried, 5 (2011)		8	2	NR
Broflanilide							4			
All other foods except animal food commodities	None	0.004	New	FSANZ				NR	NR	NR
Cabbages, head	None	2	New	CCPR54				NR	NR	NR
Cereal grains [except rice]	None	*0.001	New	CCPR54				NR	NR	NR
Coffee beans	None	0.01	New	CCPR54				NR	NR	NR
Maize flour	None	0.002	New	CCPR54				NR	NR	NR
Mammalian fats (except milk fats)	None	0.15	New	CCPR54				NR	NR	NR
Poultry fats	None	0.15	New	CCPR54				NR	NR	NR
Poultry meat	None	*0.02	New	CCPR54				NR	NR	NR
Radish, Japanese	None	0.01	New	CCPR54				NR	NR	NR
Tuberous and corm vegetables	None	0.04	New	CCPR54				NR	NR	NR
Wheat germ	None	0.002	New	CCPR54				NR	NR	NR
Edible offal (mammalian)	*0.02	0.03	Increased	CCPR54				NR	NR	NR
Eggs	*0.02	0.03	Increased	CCPR54				NR	NR	NR
Meat (mammalian) (in the fat)	*0.02	0.15	Increased	CCPR54				NR	NR	NR
Milk fats	*0.02	0.4	Increased	CCPR54				NR	NR	NR
Milks	*0.002	0.015	Increased	CCPR54				NR	NR	NR
Poultry, edible offal of	*0.02	0.03	Increased	CCPR54				NR	NR	NR
Chlorantraniliprole							1			
Tea, green, black	None	80	New	CCPR54				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Chlorfenapyr							NR			
Brassica leafy vegetables [except Chinese cabbage (Pak-choi)]	T3	None	Repeal	APVMA				NR	NR	NR
Mizuna	T3	None	Repeal	APVMA				NR	NR	NR
Onion, Welsh	T1	None	Repeal	APVMA				NR	NR	NR
Rucola (rocket)	T5	None	Repeal	APVMA				NR	NR	NR
Shallot	T1	None	Repeal	APVMA				NR	NR	NR
Spring onion	T1	None	Repeal	APVMA				NR	NR	NR
Chlormequat							26			
All other foods except animal food commodities	None	0.02	New	FSANZ				16	9	NR
Mammalian fats (except milk fats)	None	0.1	New	CCPR54		Mammalian fats (except milk fats), 0.1 (2018)		<1	<1	NR
Poultry fats	None	*0.04	New	CCPR54		Poultry fats, *0.04 (2018)		<1	<1	NR
Wheat bran, unprocessed	None	10	New	CCPR54		Wheat bran, unprocessed, 7 (2018)		3	1	NR
Wheat germ	None	20	New	CCPR54				62	2	NR
Eggs	0.1	0.2	Increased	CCPR54		Eggs, 0.1 (2018)		1	1	NR
Poultry, edible offal of	0.1	0.2	Increased	CCPR54		Poultry, edible offal of, 0.1 (2018)		2	1	NR
Barley	T2	2	Substitution	APVMA		Barley, 2 (2018)		1	2	NR
Cyflufenamid							1			
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			NR	NR	NR
Cyflumetofen							2			
Cherries (subgroup)	None	1.5	New	USA				NR	NR	NR
Peaches (subgroup)	None	0.4	New	USA				NR	NR	NR
Plums (subgroup)	None	0.3	New	USA				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Cyhalofop-butyl							34			
Marjoram (oregano)	None	*0.05	New	EU	Thyme (0256070)			NR	NR	NR
Cyhalothrin							51			
Marjoram (oregano)	None	0.7	New	EU	Thyme (0256070)			1	<1	NR
Pistachio nut	None	0.05	New	US	Pistachio	Tree nuts, *0.01 (2009)		<1	<1	NR
Dichlorprop-P							2			
Marjoram (oregano)	None	*0.05	New	EU	Thyme (0256070)			NR	NR	NR
Difenoconazole							86			
Ginger root	None	0.2	New	CCPR54				<1	<1	NR
Ginger root, dried	None	1.5	New	CCPR54				<1	<1	NR
Goji berry	None	5	New	CCPR54				17	8	NR
Goji berry, dried	None	15	New	CCPR54				<1	1	NR
Diflubenzuron							30			
Stone fruits [except cherries; jujubes, Chinese]	0.07	None	Repeal	US				NR	NR	NR
Peaches (subgroup)	None	0.5	New	US		Peach, 0.5 (2013)		NR	NR	NR
Plums (subgroup)	None	0.5	New	US				NR	NR	NR
Dimethoate							96			
Brussels sprouts	None	0.1	New	CCPR54				10	3	NR
Mammalian fats (except milk fats)	None	0.03	New	CCPR54				<1	<1	NR
Poultry fats	None	*0.001	New	CCPR54		Poultry fats, *0.05 (2003)		1	<1	NR
Wheat germ	None	0.2	New	CCPR54				31	1	NR
Cherries (subgroup)	T0.2	*0.01	Decreased	EU				NR	NR	NR
Mango	1	0.5	Decreased	APVMA				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Emamectin							22			
Basil leaves	None	0.06	New	CCPR54				<1	<1	NR
Basil leaves, dried	None	0.4	New	CCPR54				<1	<1	NR
Cherries (subgroup)	None	0.09	New	US				<1	<1	NR
Chives	None	0.01	New	CCPR54				<1	<1	NR
Chives, dried	None	0.05	New	CCPR54				<1	<1	NR
Mammalian fats (except milk fats)	None	0.02	New	CCPR54		Mammalian fats (except milk fats), 0.02 (2012)		<1	<1	NR
Meat (mammalian)	None	0.005	New	CCPR54		Meat (from mammals other than marine mammals), 0.004 (2012)		1	<1	NR
Pistachio nut	None	0.02	New	US	Nut, tree, group 14–12	Tree nuts, *0.001 (2015)		2	<1	NR
Walnuts	None	0.02	New	US	Nut, tree, group 14–12	Tree nuts, *0.001 (2015)		<1	<1	NR
Edible offal (mammalian)	0.02	0.1	Increased	CCPR54		Edible offal (mammalian), 0.08 (2012)		<1	<1	NR
Milks	*0.001	0.003	Increased	CCPR54		Milks, 0.002 (2012)		<1	<1	NR
Tea, green, black	*0.02	0.1	Increased	CCPR54				<1	<1	NR
Etoxazole							8			
Peaches (subgroup)	None	1	New	US				NR	NR	NR
Famoxadone							13			
Raspberries, red, black	10	None	Repeal	FSANZ				NR	NR	NR
Bulb onions (subgroup)	None	0.4	New	CCPR54				<1	<1	NR
Cane berries	None	10	New	CCPR54				2	<1	NR
Fruiting vegetables, cucurbits - cucumbers and summer squashes	None	0.6	New	CCPR54				1	<1	NR
Peppers, chili	None	5	New	CCPR54				1	<1	NR
Peppers, chili, dried	None	50	New	CCPR54				2	1	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Peppers, sweet	None	5	New	CCPR54				3	3	NR
Potato	None	*0.02	New	US		Potato, 0.02 (2005)		NR	NR	NR
Tomato	None	2	New	CCPR54		Tomato, 2 (2005)		<1	<1	NR
Fenazaquin							8			
Raspberries, red, black	0.7	None	Repeal	FSANZ				4	5	NR
Apple	None	0.3	New	CCPR54				17	5	NR
Avocado	None	0.15	New	CCPR54				2	1	NR
Bush berries	None	0.8	New	CCPR54				3	1	NR
Cane berries	None	0.7	New	CCPR54				1	<1	NR
Citrus oil, edible	None	40	New	CCPR54				29	13	NR
Eggplants (subgroup)	None	0.3	New	CCPR54				<1	<1	NR
Fruiting vegetables, cucurbits	None	0.3	New	CCPR54				12	4	NR
Low growing berries	None	2	New	CCPR54				16	5	NR
Mammalian fats (except milk fats)	None	*0.02	New	CCPR54		Mammalian fats (except milk fats), 2 (2021)		<1	<1	NR
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			<1	<1	NR
Peppers (subgroup)	None	0.3	New	CCPR54				2	<1	NR
Peppers, chili, dried	None	3	New	CCPR54				16	10	NR
Prunes, dried	None	3	New	CCPR54				15	19	NR
Small fruit vine climbing	None	0.7	New	CCPR54				NR	NR	NR
Tomatoes (subgroup)	None	0.3	New	CCPR54				<1	<1	NR
Dried grapes	0.8	1.5	Increased	CCPR54				8	1	NR
Fenpicoxamid							1			
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			NR	NR	NR
Flazasulfuron							1			
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Florasulam							<1			
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			NR	NR	NR
Fluazaindolizine							<1			
Carrot	None	0.4	New	CCPR54				<1	<1	NR
Mammalian fats (except milk fats)	None	*0.01	New	CCPR54				<1	<1	NR
Milk fats	None	*0.01	New	CCPR54				<1	<1	NR
Peppers, chili, dried	None	0.3	New	CCPR54				<1	<1	NR
Poultry fats	None	*0.01	New	CCPR54				<1	<1	NR
Tomato, dried	None	0.5	New	CCPR54				<1	<1	NR
Edible offal (mammalian)	*0.01	0.01	Substitution	CCPR54				NR	NR	NR
Poultry, edible offal of	*0.01	0.02	Increased	CCPR54				<1	<1	NR
Fludioxonil							5			
Almonds	0.2	None	Repeal	FSANZ				NR	NR	NR
Brassica leafy vegetables [except radish leaves]	15	None	Repeal	FSANZ				NR	NR	NR
Chick-pea (dry)	0.3	None	Repeal	FSANZ				NR	NR	NR
Common bean (pods and/or immature seeds)	0.7	None	Repeal	FSANZ				NR	NR	NR
Fats (mammalian)	0.02	None	Repeal	FSANZ				NR	NR	NR
Lentils (dry)	0.3	None	Repeal	FSANZ				NR	NR	NR
Peas (pods and succulent, immature seeds)	0.5	None	Repeal	FSANZ				NR	NR	NR
Pulses [except chick-pea (dry); lentil (dry), soya bean (dry)]	T0.1	None	Repeal	FSANZ				NR	NR	NR
Soya bean (dry)	0.2	None	Repeal	FSANZ				NR	NR	NR
Strawberry	5	None	Repeal	FSANZ				NR	NR	NR
Almond oil	None	0.3	New	CCPR54				NR	NR	NR
Banana	None	2	New	CCPR54				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Beans with pods [except soya bean]	None	0.8	New	CCPR54				NR	NR	NR
Dry beans (subgroup)	None	0.3	New	CCPR54				NR	NR	NR
Dry peas (subgroup)	None	0.3	New	CCPR54				NR	NR	NR
Mammalian fats (except milk fats)	None	0.02	New	CCPR54		Mammalian fats (except milk fats), 0.02 (2019)		NR	NR	NR
Peas with pods	None	0.8	New	CCPR54				NR	NR	NR
Sugar beet	None	4	New	CCPR54				NR	NR	NR
Tree nuts [except canarium nut; chestnuts; Chilean hazelnut; pistachio nut]	None	0.3	New	CCPR54				NR	NR	NR
Edible offal (mammalian)	0.1	0.15	Increased	CCPR54		Edible offal (mammalian), 0.1 (2006)		NR	NR	NR
Rape seed (canola)	T2	*0.01	Decreased	APVMA		Rape seed, *0.02 (2006)		NR	NR	NR
Mango	3	7	Increased	CCPR54		Mango, 2 (2013)		NR	NR	NR
Papaya	T5	5	Substitution	CCPR54				NR	NR	NR
Flufenoxuron							<1			
Oranges (subgroup)	None	0.4	New	Codex		Oranges, 0.4 (2015)		NR	NR	NR
Tea, green, black	None	20	New	Codex		Tea, green, black, 20 (2015)		NR	NR	NR
Fluindapyr							2			
Maize cereals (subgroup)	None	*0.01	New	CCPR54				<1	<1	NR
Sorghum (subgroup)	None	1	New	CCPR54				<1	<1	NR
Sweet corn (corn-on-the-cob; kernels)	None	*0.01	New	CCPR54				<1	<1	NR
Tree nuts	None	0.04	New	CCPR54				<1	<1	NR
Wheat (subgroup)	None	0.4	New	CCPR54				1	<1	NR
Flupyradifurone							47			
Pineapple	None	0.3	New	CCPR54				9	3	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Sesame seed	None	3	New	CCPR54				<1	<1	NR
Sunflower seeds (subgroup)	None	0.8	New	CCPR54				<1	<1	NR
Flutianil							<1			
Marjoram (oregano)	None	*0.02	New	CCPR54				NR	NR	NR
Flutolanil							5			
Marjoram (oregano)	None	*0.02	New	CCPR54				NR	NR	NR
Flutriafol							59			
Almonds	None	0.8	New	CCPR54				1	<1	NR
Mammalian fats (except milk fats)	None	0.02	New	CCPR54		Mammalian fats (except milk fats), 0.02 (2016)		<1	<1	NR
Meat (mammalian) (in the fat)	None	0.02	New	CCPR54		Meat (mammalian) (in the fat), 0.02 (2016)		<1	<1	NR
Poultry fats	None	0.03	New	CCPR54		Poultry fats, 0.02 (2016)		<1	<1	NR
Poultry meat (in the fat)	None	0.03	New	CCPR54				<1	<1	NR
All other foods except animal food commodities	0.5	0.1	Decreased	FSANZ				NR	NR	NR
Barley	0.2	1.5	Increased	CCPR54				30	10	NR
Edible offal (mammalian)	0.5	1	Increased	CCPR54		Edible offal (mammalian), 1 (2016)		<1	<1	NR
Fluxapyroxad							60			
Brussels sprouts	4	None	Repeal	FSANZ						
Cabbages, head	4	None	Repeal	FSANZ						
Oilseed [except cotton; peanut]	0.9	None	Repeal	FSANZ						
Barley bran, processed	None	4	New	Codex		Barley bran, processed, 4 (2013)		NR	NR	NR
Flowerhead Brassicas	None	4	New	US	Vegetable, brassica leafy, group 5	Brassica vegetables (except Brassica leafy vegetables), 2 (2016)		NR	NR	NR
Head Brassicas	None	4	New	US	Vegetable, brassica leafy, group 5	Brassica vegetables (except Brassica leafy vegetables), 2 (2016)		NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Oilseeds (subgroup) [except cotton seed]	None	0.9	New	US	Oilseeds, group 20 (except cottonseed)			NR	NR	NR
Parsnip	None	1	New	Codex		Parsnip, 1 (2016)		NR	NR	NR
Soya bean (young pod)	None	1.5	New	Codex		Soya bean (young pod), 1.5 (2013)		NR	NR	NR
Stem brassicas	None	2	New	Codex		Brassica vegetables (except Brassica leafy vegetables), 2 (2016)		NR	NR	NR
Wheat bran, unprocessed	None	1	New	Codex		Wheat bran, unprocessed, 1 (2013)		NR	NR	NR
Oats	T0.2	2	Increased	Codex		Oats, 2 (2013)		NR	NR	NR
Pome fruits	0.8	0.9	Increased	Codex		Pome fruits, 0.9 (2013)		NR	NR	NR
Soya bean (immature seeds)	0.15	0.5	Increased	Codex		Soya bean (immature seeds), 0.5 (2013)		NR	NR	NR
Folpet							<1			
Marjoram (oregano)	None	*0.06	New	EU	Thyme (0256070)			NR	NR	<1
Fosetyl-aluminium							7			
Banana	None	2	New	EU				NR	NR	NR
Marjoram (oregano)	None	400	New	EU	Thyme (0256070)			NR	NR	NR
Pome fruits	None	50	New	Codex		Pome fruits, 50 (2018)		NR	NR	NR
Pulses	None	2	New	EU				NR	NR	NR
Quinoa	None	2	New	EU	Cereals - Others (0500990)			NR	NR	NR
Indaziflam							<1			
Hops, dry	None	0.06	New	US	Hop, dried cones			<1	<1	NR
Indoxacarb							73			
Beans [except broad bean; soya bean]	0.9	None	Repeal	FSANZ				NR	NR	NR
Walnuts	T0.02	None	Repeal	FSANZ				NR	NR	NR
Beans with pods	None	0.9	New	CCPR54				<1	1	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Beetroot	None	0.5	New	CCPR54				<1	<1	NR
Mammalian fats (except milk fats)	None	2	New	CCPR54				<1	<1	NR
Tree nuts	None	0.07	New	CCPR54				<1	<1	NR
Edible offal (mammalian) (except kidney)	0.02	0.05	Increased	CCPR54		Edible offal (mammalian), 0.05 (2010)		<1	<1	NR
Milk fats	2	6	Increased	CCPR54		Milk fats, 2 (2010)		1	<1	NR
Milks	0.1	0.2	Increased	CCPR54		Milks, 0.1 (2010)		1	<1	NR
Inpyrfluxam							12			
All other foods except animal food commodities	None	0.02	New	FSANZ				1	<1	NR
Apple	None	4	New	CCPR54				75	22	NR
Maize	None	*0.01	New	CCPR54				<1	<1	NR
Mammalian fats (except milk fats)	None	*0.02	New	CCPR54				<1	<1	NR
Peanut	None	0.01	New	US				<1	<1	NR
Popcorn	None	*0.01	New	CCPR54				<1	<1	NR
Poultry fats	None	*0.02	New	CCPR54				<1	<1	NR
Rice, husked	None	*0.01	New	CCPR54				<1	<1	NR
Soya bean (dry)	None	*0.01	New	CCPR54				<1	<1	NR
Sugar beet	None	*0.01	New	CCPR54				<1	<1	NR
Sweet corn (corn-on-the-cob; kernels)	None	*0.01	New	CCPR54				<1	<1	NR
Mandipropamid							31			
Basil leaves, dried	None	200	New	CCPR54				NR	NR	NR
Eggplants (subgroup)	None	0.7	New	CCPR54				NR	NR	NR
Ginseng, dried including red ginseng	None	4	New	CCPR54				NR	NR	NR
Peppers (subgroup)	None	0.7	New	CCPR54				NR	NR	NR
Tomatoes (subgroup)	None	1	New	CCPR54				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Basil leaves	T30	30	Substitution	US				NR	NR	NR
Peppers, chili, dried	10	7	Decreased	CCPR54				NR	NR	NR
Mefenitruconazole							59			
Citrus fruit [except kumquat; lemon; lime]	0.6	None	Repeal	FSANZ				NR	NR	NR
Fruiting vegetables, other than cucurbits	1	None	Repeal	FSANZ				NR	NR	NR
Grapes	1.5	None	Repeal	FSANZ				NR	NR	NR
Kumquat	1	None	Repeal	FSANZ				NR	NR	NR
Lemon	1	None	Repeal	FSANZ				NR	NR	NR
Lime	1	None	Repeal	FSANZ				NR	NR	NR
Rape seed	1	None	Repeal	FSANZ				NR	NR	NR
Avocado	None	1	New	CCPR54				NR	NR	NR
Banana	None	1.5	New	CCPR54				NR	NR	NR
Barley bran, unprocessed	None	15	New	CCPR54				NR	NR	NR
Barley, flour	None	15	New	CCPR54				NR	NR	NR
Coffee bean	None	0.4	New	CCPR54				NR	NR	NR
Dry beans (subgroup) [except soya bean (dry)]	None	0.07	New	CCPR54				NR	NR	NR
Dry peas (subgroup) [except lentil (dry)]	None	0.15	New	CCPR54				NR	NR	NR
Eggplants (subgroup)	None	1.5	New	CCPR54				NR	NR	NR
Elderberries	None	5	New	CCPR54				NR	NR	NR
Guelder rose	None	5	New	CCPR54				NR	NR	NR
Lemons and Limes (subgroup)	None	1.5	New	CCPR54				NR	NR	NR
Mammalian fats (except milk fats)	None	1.5	New	CCPR54				NR	NR	NR
Mandarins (subgroup)	None	1.5	New	CCPR54				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Mango	None	0.6	New	CCPR54				NR	NR	NR
Oranges (subgroup)	None	1.5	New	CCPR54				NR	NR	NR
Papaya	None	0.5	New	CCPR54				NR	NR	NR
Peppers (subgroup)	None	1.5	New	CCPR54				NR	NR	NR
Peppers, chili, dried	None	15	New	CCPR54				NR	NR	NR
Poultry fats	None	0.2	New	CCPR54				NR	NR	NR
Pummelos and Grapefruit (subgroup)	None	0.6	New	CCPR54				NR	NR	NR
Rice	None	5	New	CCPR54				NR	NR	NR
Rice, husked	None	1.5	New	CCPR54				NR	NR	NR
Small seed oilseeds	None	1	New	CCPR54				NR	NR	NR
Table grapes	None	1.5	New	CCPR54				NR	NR	NR
Tomato, dried	None	7	New	CCPR54				NR	NR	NR
Tomatoes (subgroup)	None	1	New	CCPR54				NR	NR	NR
Wheat bran, unprocessed	None	1.5	New	CCPR54				NR	NR	NR
Wheat germ	None	0.5	New	CCPR54				NR	NR	NR
Wine grapes	None	2	New	CCPR54				NR	NR	NR
Cherries (subgroup)	4	5	Increased	CCPR54				NR	NR	NR
Citrus oil, edible	15	70	Increased	CCPR54				NR	NR	NR
Edible offal (mammalian)	T0.3	2	Increased	CCPR54				NR	NR	NR
Eggs	*0.01	0.04	Increased	CCPR54				NR	NR	NR
Milks	*0.01	0.1	Increased	CCPR54				NR	NR	NR
Peaches (subgroup)	1.5	2	Increased	CCPR54				NR	NR	NR
Potato	0.04	0.05	Increased	CCPR54				NR	NR	NR
Poultry, edible offal of	0.02	0.7	Increased	CCPR54				NR	NR	NR
Poultry meat (in the fat)	*0.01	0.03	Increased	CCPR54				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Prunes, dried	4	7	Increased	CCPR54				NR	NR	NR
Sweet corn (corn-on-the-cob; kernels)	0.03	0.04	Increased	CCPR54				NR	NR	NR
Tree nuts	0.2	0.06	Decreased	CCPR54				NR	NR	NR
Wheat (subgroup)	0.3	0.4	Increased	CCPR54				NR	NR	NR
Mesosulfuron-methyl							<1			
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			NR	NR	NR
Metaflumizone							16			
Marjoram (oregano)	None	*0.04	New	EU	Thyme (0256070)			NR	NR	NR
Metalaxyl							21			
Ginseng, dried including red ginseng	None	*0.06	New	CCPR54				0	0	NR
Metamitron							2			
Marjoram (oregano)	None	0.15	New	EU	Thyme (0256070)			<1	<1	NR
Metconazole							3			
Marjoram (oregano)	None	*0.05	New	EU	Thyme (0256070)			NR	NR	<1
Methidathion							NR			
Pear	1	None	Omit	CCPR54		Pear, 1 (1999)		NR	NR	NR
Milbemectin							<1			
Marjoram (oregano)	None	*0.05	New	EU	Thyme (0256070)			NR	NR	<1
Norflurazon							30			
Blueberries	None	0.2	New	US	Blueberry			<1	<1	NR
Omethoate							96			
Brussels sprouts	None	0.03	New	Codex				10	3	NR
Cherries (subgroup)	None	*0.01	New	EU				1	<1	NR
Mammalian fats (except milk fats)	None	0.003	New	Codex				<1	<1	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Poultry fats	None	*0.001	New	Codex				1	<1	NR
Wheat germ	None	0.06	New	Codex				31	1	NR
Oxathiapiprolin							<1			
Ginseng, dried including red ginseng	None	0.15	New	Codex	Ginseng, dried			NR	NR	NR
Pinoxaden							2			
Marjoram (oregano)	None	*0.06	New	EU	Thyme (0256070)			<1	<1	NR
Prohexadione-calcium							<1			
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			NR	NR	NR
Prosulfocarb							3			
Marjoram (oregano)	None	20	New	EU	Thyme (0256070)			2	1	NR
Pydiflumetofen							11			
Brassica leafy vegetables [except broccoli, Chinese (Gai lan)]	15	None	Repeal	APVMA				NR	NR	NR
Cereal grains [except maize cereals; sweet corns (subgroup)]	T3	None	Repeal	APVMA				NR	NR	NR
Fungi, edible (except mushrooms)	T0.7	None	Repeal	APVMA				NR	NR	NR
Legume vegetables [except beans with pods; peas with pods (subgroup)]	T0.5	None	Repeal	APVMA				NR	NR	NR
Popcorn	T0.02	None	Repeal	APVMA				NR	NR	NR
Tomato	None	T0.7	New	APVMA				NR	NR	NR
Fruiting vegetables, cucurbits	T0.5	0.4	Decreased	Codex		Fruiting vegetables, cucurbits, 0.4 (2021)		NR	NR	NR
Fruiting vegetables, other than cucurbits	T0.7	0.5	Decreased	APVMA		Fruiting vegetables, other than cucurbits, 0.5 (2021)		NR	NR	NR
Leafy vegetables	T30	15	Decreased	APVMA				NR	NR	NR
Potato	T0.05	*0.01	Decreased	APVMA				NR	NR	NR
Rape seed (canola)	T0.07	0.05	Decreased	APVMA				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Pome fruits [except persimmon, Japanese]	T0.2	0.2	Substitution	Codex		Pome fruits [except persimmon, Japanese], 0.2 (2022)		NR	NR	NR
Pyraflufen-ethyl										
Potato	None	0.02	New	US	Vegetable, tuberous and corn, subgroup 1C					
Pyridate										
Marjoram (oregano)	None	*0.05	New	EU	Thyme (0256070)					
Pyrimethanil										
							33			
Carrot	None	1	New	Codex		Carrot, 1 (2008)		NR	NR	NR
Common bean	None	3	New	Codex		Common bean, 3 (2008)		NR	NR	NR
Field pea (dry)	None	0.5	New	Codex		Field pea (dry), 0.5 (2008)		NR	NR	NR
Rimsulfuron										
							<1			
Potato	None	0.1	New	US	Vegetable, tuberous and corn, subgroup 1C			NR	NR	NR
Simazine										
							29			
Blueberries	None	0.2	New	US	Blueberry			NR	NR	NR
Spiromesifen										
							10			
Beans with pods	None	0.5	New	CCPR				NR	NR	NR
Dry beans (subgroup)	None	*0.03	New	CCPR				NR	NR	NR
Edible offal (mammalian)	None	0.3	New	CCPR		Edible offal (mammalian), 0.3 (2017)		NR	NR	NR
Eggs	None	0.02	New	CCPR		Eggs, 0.02 (2017)		NR	NR	NR
Mammalian fats (except milk fats)	None	0.15	New	CCPR		Mammalian fats (except milk fats), 0.15 (2017)		NR	NR	NR
Mango	None	0.5	New	CCPR				NR	NR	NR
Meat (mammalian)	None	0.15	New	CCPR		Meat (from mammals other than marine mammals), 0.15 (2017)		NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Milks	None	0.015	New	CCPR		Milks, 0.01 (2017)		NR	NR	NR
Orange oil, edible	None	30	New	CCPR				NR	NR	NR
Oranges (subgroup)	None	0.15	New	CCPR				NR	NR	NR
Papaya	None	0.7	New	CCPR				NR	NR	NR
Poultry, edible offal of	None	0.05	New	CCPR		Poultry, edible offal of, 0.05 (2017)		NR	NR	NR
Poultry fats	None	0.02	New	CCPR		Poultry fats, 0.02 (2017)		NR	NR	NR
Poultry meat	None	0.02	New	CCPR		Poultry meat, 0.02 (2017)		NR	NR	NR
Soya bean oil, crude	None	*0.03	New	CCPR				NR	NR	NR
Succulent beans without pods	None	*0.15	New	CCPR				NR	NR	NR
Sulfoxaflor							35			
Artichoke, globe	None	0.9	New	CCPR				<1	<1	NR
Sunflower seeds (subgroup)	None	0.4	New	CCPR				<1	<1	NR
Wine grapes	*0.01	2	Increased	Codex	Grapes	Grapes, 2 (2013)		14	22	NR
Teflubenzuron							41			
Grapes	None	0.7	New	Codex		Grapes, 0.7 (2017)		NR	NR	NR
Papaya	None	0.4	New	Codex		Papaya, 0.4 (2017)		NR	NR	NR
Tetraniliprole							1			
Grapes	0.5	None	Repeal	FSANZ				NR	NR	NR
Macadamia nuts	*0.01	None	Repeal	FSANZ				NR	NR	NR
Brassica leafy vegetables	None	15	New	CCPR		Leaves of Brassicaceae, 15 (2021)		NR	NR	NR
Cabbages, head	None	2	New	CCPR		Cabbages, head, 2 (2021)		NR	NR	NR
Dried grapes	None	2	New	CCPR		Grape, dried, 2 (2021)		NR	NR	NR
Flowerhead brassicas	None	0.5	New	CCPR		Flowerhead brassicas (subgroup), 0.5 (2021)		NR	NR	NR
Fruiting vegetables, other than cucurbits	None	0.4	New	CCPR		Fruiting vegetables, other than cucurbits, 0.4 (2021)		NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Lemons and Limes (subgroup)	None	1.5	New	CCPR		Lemons and limes (including citron), 1.5 (2021)		NR	NR	NR
Mammalian fats (except milk fats)	None	0.15	New	CCPR		Mammalian fats (except milk fats), 0.15 (2021)		NR	NR	NR
Mandarins (subgroup)	None	1	New	US	Orange subgroup 10–10A			NR	NR	NR
Orange oil, edible	None	5	New	CCPR				NR	NR	NR
Oranges (subgroup)	None	0.5	New	CCPR				NR	NR	NR
Peppers, chili, dried	None	4	New	CCPR				NR	NR	NR
Poultry fats	None	*0.01	New	CCPR				NR	NR	NR
Pummelos and Grapefruit (subgroup)	None	0.9	New	CCPR				NR	NR	NR
Small fruit vine climbing	None	1.5	New	CCPR				NR	NR	NR
Soya bean (dry)	None	0.2	New	CCPR				NR	NR	NR
Tomato, puree (tomato paste)	None	1.5	New	CCPR				NR	NR	NR
Tree nuts [except almonds]	None	0.03	New	CCPR				NR	NR	NR
Edible offal (mammalian)	0.7	1	Increased	CCPR		Edible offal (mammalian). 1 (2021)		NR	NR	NR
Cherries (subgroup)	1	1.5	Increased	CCPR		Cherries (subgroup), 1.5 (2021)		NR	NR	NR
Milks	0.1	0.15	Increased	CCPR		Milks, 0.15 (2021)		NR	NR	NR
Trichlorfon							NR			
Fish muscle	T*0.01	None	Repeal	APVMA				NR	NR	NR
Triflumuron							14			
Mammalian fats (except milk fats)	None	*0.1	New	CCPR				NR	NR	NR
Soya bean (dry)	None	0.1	New	CCPR				NR	NR	NR
Meat (mammalian) (in the fat) [except sheep meat (in the fat)]	*0.05	*0.1	Increased	CCPR				NR	NR	NR

Chemical and commodity requested	Pre-M1022 MRL (mg/kg)	Post-M1022 MRL (mg/kg)	MRL change	Origin of new MRL	Commodity description in trading partners standards	Commodity description in Codex, MRL (mg/kg) and (year established)	NEDI (% ADI)	NESTI (% ARfD) 2–6 years	NESTI (% ARfD) 2+ years	NESTI (% ARfD) Women 16–44 years
Trinexapac-ethyl							14			
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			NR	NR	NR
Valifenalate							<1			
Marjoram (oregano)	None	*0.02	New	EU	Thyme (0256070)			NR	NR	NR
Zoxamide							2			
Marjoram (oregano)	None	30	New	EU	Thyme (0256070)			NR	NR	NR
Potato	None	0.06	New	US	Vegetable, tuberous and corm, subgroup 1C	Potato, 0.02 (2008)		NR	NR	NR

Appendix 2

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

This appendix outlines the *All other foods except animal food commodities* MRL consideration for all chemicals requested for inclusion in Proposal M1022, following the principles set out in P1027⁷.

Chemicals not registered for use in Australia do not meet the requirements for establishing an *All other foods except animal food commodities* MRL. Should a chemical's registration in Australia be withdrawn or removed, any pre-existing *All other foods except animal food commodities* MRL in Schedule 20 would be proposed for deletion in the following MRL harmonisation proposal.

A conservative assumption made by FSANZ when calculating the national estimate of daily intake (NEDI) is that 10% of the *All other foods except animal food commodities* would likely contain residues. This assumption does not apply to the calculations of the national estimated short-term intake (NESTI).

The relevant health-based guidance values for the NEDI and NESTI are the acceptable daily intake (ADI) and the acute reference dose (ARfD) respectively.

7. [Proposal P1027 - Managing Low-level Ag & Vet Chemicals without MRLs \(2016\)](#). Accessed 11 January 2024.

List of agvet chemicals reviewed or considered for an *All other foods except animal food commodities* MRL

1,4-DIMETHYLNAPHTHALENE.....	37
ACIBENZOLAR-S-METHYL	37
ACLONIFEN.....	37
AFIDOPYROPEN	37
AZOXYSTROBIN.....	37
BENZOVINDIFLUPYR	37
BIFENTHRIN.....	37
BROFLANILIDE	37
CHLORANTRANILIPROLE.....	38
CHLORFENAPYR	38
CHLORMEQUAT	38
CYFLUFENAMID	39
CYFLUMETOFEN.....	39
CYHALOFOP-BUTYL	39
CYHALOTHRIN	39
DICHLORPROP-P	39
DIFENOCONAZOLE	39
DIFLUBENZURON	39
DIMETHOATE.....	39
EMAMECTIN.....	39
ETOXAZOLE.....	40
FAMOXADONE	40
FENAZAQUIN.....	40
FENPICOXAMID.....	40
FLAZASULFURON	40
FLORASULAM	40
FLUAZAINDOLIZINE	40
FLUDIOXONIL	40
FLUFENOXURON	40
FLUINDAPYR	40
FLUPYRADIFURONE	40
FLUTIANIL	40
FLUTOLANIL	40
FLUTRIAFOL	41
FLUXAPYROXAD	41
FOLPET.....	41

FOSETYL ALUMINIUM	42
INDAZIFLAM.....	42
INDOXACARB	42
INPYRFLUXAM	42
MANDIPROPAMID.....	43
MEFENTRIFLUCONAZOLE.....	43
MESOSULFURON-METHYL.....	43
METAFLUMIZONE	43
METALAXYL.....	43
METAMITRON	43
METCONAZOLE	43
MILBEMECTIN	43
NORFLURAZON	43
OMETHOATE	43
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1,4-dimethylnaphthalene

1,4-dimethylnaphthalene was excluded from consideration of an *All other foods except animal food commodities* MRL as there is no registered use of this chemical in Australia.

Acibenzolar-S-methyl

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

Aclonifen

Aclonifen was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Afidopyropen

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for afidopyropen is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Azoxystrobin

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for azoxystrobin is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Benzovindiflupyr

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for benzovindiflupyr is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Bifenthrin

An MRL of 0.03 mg/kg for *All other foods except animal food commodities* for bifenthrin is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Broflanilide

An *All other foods except animal food commodities* MRL of 0.004 mg/kg is proposed for broflanilide, based on the following considerations:

Considerations	Comments
Limit of determination (LOD)	*0.001 mg/kg as listed in the Codex database. No LOD values listed in EU or US MRL databases.
Lowest plant commodity MRL	*0.001 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is *0.001 (Cereal grains) to 4 mg/kg (Leafy vegetables)
Lowest plant commodity MRL that is not the LOD	0.005 mg/kg
Most relevant reference point to minimise off-label use	0.01 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	41.4 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions and proposed M1022 MRLs	3.8% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL	0.004 mg/kg

Considerations	Comments
NEDI including <i>All other foods except animal commodities</i> MRL, existing permissions and proposed M1022 MRLs	3.90% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.004 mg/kg represents a contribution of 1% to total dietary exposure which is within the 20% limit and is considered acceptable.
Acute dietary exposure assessment (NESTI)	An acute exposure assessment is not required
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.004 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.

Chlorantraniliprole

The APVMA has established an *All other foods* MRL at T0.1 mg/kg, which is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Chlorfenapyr

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for chlorfenapyr is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Chlormequat

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

Considerations	Comments
Limit of determination (LOD)	*0.01-*0.05 mg/kg as indicated in EU and Codex databases. No LOD values listed in US.
Lowest plant commodity MRL	0.75 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 0.75 (grapes & dried grapes) to 5 mg/kg (wheat)
Lowest plant commodity MRL that is not the LOD	0.75 mg/kg
Most relevant reference point to minimise off-label use	0.02 - 0.1 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	42 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions and proposed M1022 MRLs	25.9% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL, existing permissions and proposed M1022 MRLs	26.1% of the ADI

Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 2% to total dietary exposure which is within the 20% limit and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children (2-6 year old) worst-case is water (16% of the ARfD); General population (2+ year olds) worst case is water (9% of the ARfD).
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

Cyflufenamid

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for cyflufenamid is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Cyflumetofen

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for cyflumetofen is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Cyhalofop-butyl

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Cyhalothrin

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

Dichlorprop-P

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Difenoconazole

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for difenoconazole is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Diflubenzuron

This chemical was excluded from consideration of an *All other foods except animal food commodities* MRL as it can be used as a veterinary medicine.

Dimethoate

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

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 M1022 and no change is proposed.

Etoxazole

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for etoxazole is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Famoxadone

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

Fenazaquin

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

Fenpicoxamid

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

Flazasulfuron

This chemical was considered for an *All other foods except animal food commodities MRL*, however there was no practical limit that would minimise off-label use.

Florasulam

This chemical was considered for an *All other foods except animal food commodities MRL*, however there was no practical limit that would minimise off-label use.

Fluazaindolizine

An MRL of 0.1 mg/kg for *All other foods except animal food commodities* for fluazaindolizine is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Fludioxonil

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for fludioxonil is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Flufenoxuron

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

Fluindapyr

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

Flupyradifurone

An MRL of 0.2 mg/kg for *All other foods except animal food commodities* for flupyradifurone is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Flutianil

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

Flutolanil

Flutolanil was considered for an *All other foods except animal food commodities MRL*, however there was no practical limit that would minimise off-label use.

Flutriafol

An MRL of 0.5 mg/kg for *All other foods except animal food commodities* for flutriafol is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and a reduction in the MRL is being proposed. The proposed change relates to the additional commodity entries that have been added to Schedule 20 since the *All other foods except animal food commodities* was first established, and the MRL becoming significantly higher than the lowest plant commodity MRL and the reference point for minimising off-label use. FSANZ is proposing a decrease in the MRL to 0.1 mg/kg.

Considerations	Comments
Limit of determination (LOD)	*0.01 mg/kg as indicated in EU & Codex Pesticide databases
Lowest plant commodity MRL	*0.01 mg/kg (garden pea; sugar cane)
Magnitude of existing plant commodity MRLs	The range of existing MRLs is *0.01 (garden pea; sugar cane) to 20 mg/kg (hops, dry)
Lowest plant commodity MRL that is not the LOD	0.05 mg/kg
Most relevant reference point to minimise off-label use	0.05 - 0.1 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	37.7 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions and proposed M1022 MRLs	55.35% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL	0.1 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL, existing permissions and proposed M1022 MRLs	59.1% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.1 mg/kg represents a contribution of 6% to total dietary exposure which is within the 20% limit and is considered acceptable.
Acute dietary exposure assessment (NESTI)	An acute exposure assessment is not required as the <i>All other foods except animal commodities</i> MRL is being reduced.
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.1 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

Fluxapyroxad

The APVMA has established an *All other foods* MRL at 0.1 mg/kg, which is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Folpet

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

Fosetyl aluminium

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

Indaziflam

Indaziflam was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Indoxacarb

An *All other foods except animal food commodities* MRL of 0.05 mg/kg is currently listed in Schedule 20 for indoxacarb. This MRL was reviewed as part of M1022 and no change is proposed.

Inpyrfluxam

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

Considerations	Comments
Limit of determination (LOD)	There are no LOD's currently listed in Schedule 20 however an alignment to proposed Codex MRLs would add an LOD of *0.01 mg/kg.
Lowest plant commodity MRL	*0.01 mg/kg
Magnitude of existing plant commodity MRLs	The range of existing MRLs is 0.05 (potato) to 0.7 mg/kg (banana)
Lowest plant commodity MRL that is not the LOD	*0.01 mg/kg
Most relevant reference point to minimise off-label use	0.04 mg/kg
Consumption amount used in NEDI calculation for <i>All other foods except animal commodities</i>	42.2 g/kg bw/day
Chronic dietary exposure (NEDI) considering existing permissions and proposed M1022 MRLs	12.1% of the ADI
Proposed <i>All other foods except animal commodities</i> MRL	0.02 mg/kg
NEDI including <i>All other foods except animal commodities</i> MRL, existing permissions and proposed M1022 MRLs	12.3% of the ADI
Percentage contribution of <i>All other foods except animal commodities</i> to total chronic dietary exposure	An <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg represents a contribution of 1% to total dietary exposure which is within the 20% limit and is considered acceptable.
Acute dietary exposure assessment (NESTI)	Children (2-6 year old) worst-case is pineapple (1% of the ARfD); General population (2+ year olds) worst case is milk (<1% of the ARfD).
Conclusion	After considering the principles established and agreed in FSANZ proposal P1027, an <i>All other foods except animal commodities</i> MRL of 0.02 mg/kg is acceptable because it has been shown to be practical, adequately manages the risk of off-label use and does not increase the level of concern about the risk to public health.

Mandipropamid

An MRL of 0.5 mg/kg for *All other foods except animal food commodities* for mandipropamid is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Mefentrifluconazole

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for mefentrifluconazole is currently listed in Schedule 20. This MRL was reviewed in M1022 and no change is proposed.

Mesosulfuron-methyl

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Metaflumizone

This chemical 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

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 M1022 and no change is proposed.

Metamitron

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Metconazole

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

Milbemectin

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Norflurazon

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for norflurazon is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Omethoate

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Oxathiapiprolin

An MRL of 0.02 mg/kg for *all other foods except animal food commodities* for oxathiapiprolin is currently listed in Schedule 20. This MRL was reviewed in M1022 and no change is proposed.

Pinoxaden

An MRL of 0.06 mg/kg for *All other foods except animal food commodities* for pinoxaden is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Prohexadione-calcium

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Prosulfocarb

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Pydiflumetofen

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for pydiflumetofen is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Pyraflufen-ethyl

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Pyridate

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical MRL that would minimise off label use.

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 M1022 and no change is proposed.

Rimsulfuron

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Simazine

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Spiromesifen

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

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 M1022 and no change is proposed.

Teflubenzuron

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

Tetraniliprole

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for tetraniliprole is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Trichlorfon

An MRL of 0.05 mg/kg for *All other foods except animal food commodities* for trichlorfon is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Triflumuron

This chemical was considered for an *All other foods except animal food commodities* MRL, however there was no practical limit that would minimise off-label use.

Trinexapac-ethyl

An MRL of 0.02 mg/kg for *All other foods except animal food commodities* for trinexapac-ethyl is currently listed in Schedule 20. This MRL was reviewed as part of M1022 and no change is proposed.

Valifenalate

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

Zoxamide

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