

6 May 2009 [7-09]

PROPOSAL M1003 MAXIMUM RESIDUE LIMITS (April, May, June, August 2008) ASSESSMENT REPORT

Executive Summary

Purpose

The purpose of this Proposal is to consider incorporating limits for residues of agricultural and veterinary chemicals that may legitimately occur in food in the *Australia New Zealand Food Standards Code* (the Code). This includes maximum residue limits (MRLs) gazetted by the Australian Pesticides and Veterinary Medicines Authority (APVMA) in April, May, June and August 2008. The APVMA did not gazette any MRLs in July. This Proposal also includes consideration of limits requested by industry to further align the Code with international standards. This will permit the sale of foods containing legitimate residues and protect public health and safety by minimising residues in foods consistent with the effective control of pests and diseases.

Food Standards Australia New Zealand's (FSANZ's) role in the regulation of agricultural and veterinary chemicals is to protect public health and safety by ensuring that any potential residues in food are within appropriate safety limits and to support industry and compliance agencies by maintaining limits in the Code that reflect legitimate residues in food.

Dietary exposure assessments indicate that in relation to current reference health standards, the proposed limits do not present any public health and safety concerns. This Proposal includes consideration of MRLs for the antibiotic halofuginone in cattle commodities. The use of halofuginone relating to the proposed MRLs does not pose a risk in terms of antimicrobial resistance.

The Agreement between the Government of Australia and the Government of New Zealand concerning a Joint Food Standards System (the Treaty), excludes MRLs for agricultural and veterinary chemicals in food from the system setting joint food standards. Australia and New Zealand independently and separately develop MRLs for agricultural and veterinary chemicals in food.

FSANZ will make a Sanitary and Phytosanitary notification to the World Trade Organization (WTO).

Submissions are now invited on this Report to assist FSANZ finalise the assessment.

This Proposal is being assessed under the General Procedure.

Assessing the Proposal

In assessing the Proposal and the subsequent development of food regulatory measures, FSANZ has had regard to the following matters as prescribed in section 59 of the *Food Standards Australia New Zealand Act 1991* (FSANZ Act):

- Whether costs that would arise from a food regulatory measure developed or varied as a result of the Proposal outweigh the direct and indirect benefits to the community, Government or industry that would arise from the development or variation of the food regulatory measure;
- There are no other measures that would be more cost-effective than a variation to Standards 1.3.1 and 1.4.2 that could achieve the same end;
- Any relevant New Zealand standards; and
- Any other relevant matters.

Preferred Approach

FSANZ recommends the proposed draft variations to Standards 1.3.1 – Food Additives and 1.4.2 – Maximum Residue Limits. The residues associated with the proposed variations do not present any public health and safety concerns and the proposed draft variations are necessary, cost-effective and will benefit consumers, Government and industry. The proposed draft variations will permit the sale of foods containing legitimate residues.

Reasons for Preferred Approach

This Proposal has been assessed against the considerations provided for in section 59 of the FSANZ Act. FSANZ recommends the proposed draft variations to Standards 1.3.1 and 1.4.2 for the following reasons:

- MRLs serve to protect public health and safety by minimising residues in food consistent with the effective control of pests and diseases.
- Dietary exposure assessments indicate that the proposed variations do not present any public health and safety concerns.
- This approach ensures openness and transparency in relation to the residues that could reasonably occur in food.
- The proposed variations will benefit stakeholders by maintaining public health and safety while permitting the legal sale of food containing legitimate residues of agricultural and veterinary chemicals used to control pests and diseases and improve agricultural productivity.
- The APVMA has assessed appropriate residue, animal transfer, processing and metabolism studies, in accordance with *The Manual of Requirements and Guidelines –* MORAG – for Agricultural and Veterinary Chemicals 1 July 2005 to support the use of chemicals on commodities as outlined in this Proposal.

- The Office of Chemical Safety (OCS) has undertaken a toxicological assessment of each chemical and has established an acceptable daily intake (ADI) and where appropriate an acute reference dose (ARfD).
- FSANZ has undertaken a preliminary regulation impact assessment and concluded that the proposed draft variations are necessary, cost-effective and beneficial.
- The proposed draft variations would remove inconsistencies between agricultural and food standards and provide certainty and consistency for producers, importers and Australian, State and Territory compliance agencies.
- The proposed changes are consistent with the FSANZ Act section 18 objectives.

Consultation

FSANZ is seeking public comment on this Assessment Report to assist in assessing the Proposal. Comments on, but not limited to, any impacts (costs/benefits) of the proposed variations, in particular the likely impacts on importation of food if the variations are advanced; any public health and safety considerations associated with the proposed limits; and any other affected parties would be welcome.

Invitation for Submissions

FSANZ invites public comment on this Report and the draft variations to the Code based on regulation impact principles for the purpose of preparing an amendment to the Code for approval by the FSANZ Board.

Written submissions are invited from interested individuals and organisations to assist FSANZ in further considering this Proposal. Submissions should, where possible, address the objectives of FSANZ as set out in section 18 of the FSANZ Act. Information providing details of potential costs and benefits of the proposed changes to the Code from stakeholders is highly desirable. Claims made in submissions should be supported wherever possible by referencing or including relevant studies, research findings, trials, surveys etc. Technical information should be in sufficient detail to allow independent scientific assessment.

The processes of FSANZ are open to public scrutiny, and any submissions received will ordinarily be placed on the public register of FSANZ and made available for inspection. If you wish any information contained in a submission to remain confidential to FSANZ, you should clearly identify the sensitive information, separate it from your submission and provide justification for treating it as confidential commercial material. Section 114 of the FSANZ Act requires FSANZ to treat in-confidence, trade secrets relating to food and any other information relating to food, the commercial value of which would be, or could reasonably be expected to be, destroyed or diminished by disclosure.

Submissions must be made in writing and should clearly be marked with the word 'Submission' and quote the correct project number and name. While FSANZ accepts submissions in hard copy to our offices, it is more convenient and quicker to receive submissions electronically through the FSANZ website using the <u>Standards Development</u> tab and then through <u>Documents for Public Comment</u>. Alternatively, you may email your submission directly to the Standards Management Officer at <u>submissions@foodstandards.gov.au</u>. There is no need to send a hard copy of your submission if you have submitted it by email or the FSANZ website. FSANZ endeavours to formally acknowledge receipt of submissions within 3 business days.

<u>DEADLINE FOR PUBLIC SUBMISSIONS: 6pm (Canberra time) 3 June 2009</u> SUBMISSIONS RECEIVED AFTER THIS DEADLINE WILL <u>NOT</u> BE CONSIDERED

Submissions received after this date will only be considered if agreement for an extension has been given prior to this closing date. Agreement to an extension of time will only be given if extraordinary circumstances warrant an extension to the submission period. Any agreed extension will be notified on the FSANZ website and will apply to all submitters.

Questions relating to making submissions or the application process can be directed to the Standards Management Officer at standards.management@foodstandards.gov.au.

If you are unable to submit your submission electronically, hard copy submissions may be sent to one of the following addresses:

Food Standards Australia New Zealand PO Box 7186 Canberra BC ACT 2610 AUSTRALIA Tel (02) 6271 2222 Food Standards Australia New Zealand PO Box 10559 The Terrace WELLINGTON 6036 NEW ZEALAND Tel (04) 473 9942

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INTRODUCTION

Notifications were received from the Australian Pesticides and Veterinary Medicines Authority (APVMA) on 28 May, 17 June and 14 August 2008 seeking to vary the *Australia New Zealand Food Standards Code* (the Code). The proposed variations to the Code would align maximum residue limits (MRLs) in the Code for certain agricultural and veterinary chemicals with the APVMA MRLs listed in The MRL Standard and permit the sale of relevant foods legitimately treated during production.

This Proposal also includes consideration of MRLs for cypermethrin, fenhexamid, fenvalerate and glufosinate-ammonium and extraneous residue limits (ERLs) for dieldrin for a range of commodities as a result of information provided by industry. Anomalies between the Code and international standards may have implications for trade in certain foods. The proposed variations to the Code would align limits in the Code with Codex and other standards internationally and permit the sale of relevant foods containing legitimate residues at levels that do not present health or safety concerns.

This Proposal also includes consideration of an MRL for mancozeb in herbs gazetted by the APVMA in March 2008. Rather than delay progressing the other MRLs requested in Proposal M1002 while the assessment of the mancozeb MRL for herbs was finalised, it was excluded from that Proposal.

In summary, this Proposal includes consideration of MRLs for abamectin, azoxystrobin, bifenazate, bifenthrin, boscalid, carbofuran, cypermethrin, dithiocarbamates (mancozeb), etoxazole, fenhexamid, fenvalerate, flubendiamide (new chemical), glufosinate-ammonium, halofuginone (antibiotic), indoxacarb, isoxaflutole, lambda-cyhalothrin (cyhalothrin), linuron, methomyl, metribuzin, phosphorous acid, pirimicarb, prochloraz, profoxydim (new chemical), pymetrozine, pyraclostrobin, pyroxsulam (new chemical) and trinexapac-ethyl; ERLs for dieldrin; a maximum permitted level (MPL) for sulphur dioxide and other amendments to maldison and propachlor entries.

The draft variations to the Code are at **Attachment 1** and the proposed variations and dietary exposure assessments are outlined in **Attachment 2**. The safety assessment methodology is outlined in **Attachment 3**; this includes an explanation of terminology.

FSANZ's role in the regulation of agricultural and veterinary chemicals is to protect public health and safety by ensuring that any potential residues in food are within appropriate safety limits and to support producers, importers and compliance agencies by maintaining limits in the Code that reflect legitimate residues in food.

In considering the issues associated with variations to limits in the Code for residues of agricultural and veterinary chemicals in food, it should be noted that the limit is the maximum level of a chemical that may be in a food, not the level that is usually present in a food. Also, the purpose of ERLs in the Code is to recognise residues in food as a result of past historical use without undermining current restrictions on residues in food from contemporary chemical product use. However, incorporating the limit into food legislation means that the residues of a chemical are minimised (i.e. must not exceed the MRL, ERL or other limit), irrespective of whether the dietary exposure assessment indicates that higher residues would not risk public health and safety.

Limits and variations to limits in the Code do not permit or prohibit the use of agricultural or veterinary chemicals. Other Australian Government, State and Territory legislation regulates use and control of agricultural and veterinary chemicals.

1. The Issue / Problem

Including limits for residues of agricultural and veterinary chemicals in foods in the Code has the effect of allowing the sale of food containing legitimate residues, where any residues do not exceed these limits. Variations in MRLs reflect the changing patterns of agricultural and veterinary chemicals available to chemical product users including food producers. These changes include both the development of new products and crop uses, and the withdrawal of older products following review. Where residues do not pose health or safety concerns, limits are also varied in line with international standards to reflect requirements for foods containing legitimate residues to be imported. Internationally, farmers face different pest and disease pressures and so agricultural and veterinary chemical use patterns may vary.

2. Current Standard

2.1 Background

Standard 1.4.2 lists the limits for agricultural and veterinary chemical residues which may occur in foods. Some limits are also listed in Standard 1.3.1. If a limit is not listed for a particular agricultural or veterinary chemical/commodity combination, there must be no detectable residues of that chemical in that food. This general prohibition means that in the absence of the relevant limit in the Code, food may not be sold where there are detectable residues.

Variations to the Code may be required to permit the sale of foods containing legitimate residues. A dietary exposure assessment is conducted before the Code is varied to ensure that proposed limits do not present any public health or safety concerns.

Further background information on MRLs, the regulatory framework for agricultural and veterinary chemicals and the FSANZ assessment process for incorporating limits, including MRLs for antibiotic substances, in the Code is provided at **Attachment 4**.

3. Objectives

In assessing this Proposal, FSANZ aims to ensure that approving the proposed draft variations does not present public health and safety concerns and that the sale of food containing legitimate residues is permitted.

In developing or varying a food standard, FSANZ is required by its legislation to meet three primary objectives which are set out in section 18 of the FSANZ Act. These are:

- the protection of public health and safety; and
- the provision of adequate information relating to food to enable consumers to make informed choices; and
- the prevention of misleading or deceptive conduct.

In developing and varying standards, FSANZ must also have regard to:

- the need for standards to be based on risk analysis using the best available scientific evidence:
- the promotion of consistency between domestic and international food standards;

- the desirability of an efficient and internationally competitive food industry;
- the promotion of fair trading in food; and
- any written policy guidelines formulated by the Australia and New Zealand Food Regulation Ministerial Council.

For the reasons set out in this Report, the proposed draft variations to the Code are consistent with the FSANZ Act section 18 objectives.

4. Assessment Approach

FSANZ's primary role in developing food regulatory measures for agricultural and veterinary chemicals is to ensure that the potential residues in food are within reference health standards. FSANZ conducts and reviews dietary exposure assessments in accordance with internationally accepted practices and procedures.

In assessing the public health and safety implications of chemical residues, FSANZ considers the dietary exposure to chemical residues from potentially treated foods in the diet by comparing the dietary exposure with the relevant reference health standard. FSANZ will not approve variations to limits in the Code where dietary exposure to the residues of a chemical could risk public health and safety.

The steps undertaken in conducting a dietary exposure assessment are:

- determining the residues of a chemical in a treated food; and
- calculating the dietary exposure to a chemical from relevant foods, using food consumption data from national nutrition surveys and comparing this to the relevant reference health standard.

The estimated dietary exposure to a chemical is compared to the relevant reference health standard/s for that chemical in food (i.e. the acceptable daily intake (ADI) and/or the acute reference dose (ARfD)). FSANZ considers that dietary exposure to the residues of a chemical is acceptable where the best estimate of this exposure does not exceed the relevant standard/s.

The safety assessment methodology is further outlined in **Attachment 3**.

RISK ASSESSMENT

5. Risk Assessment Summary

FSANZ has validated the dietary exposure assessments submitted by the APVMA and conducted dietary exposure assessments to assess the limits requested by industry. Using the best available scientific data and internationally recognised risk assessment methodology, FSANZ concluded that in relation to current reference health standards, setting the limits as proposed does not present any public health and safety concerns.

The additional safety factors inherent in calculation of the ADI and ARfD mean that there is negligible risk to public health and safety when estimated exposures are below these reference health standards.

The proposed MRLs for the antibiotic substance halofuginone do not pose a risk in terms of antimicrobial resistance.

RISK MANAGEMENT

6. Options

- 1. Option 1 approve the draft variations
- 2. Option 2 after the submission period, approve the draft variations subject to such amendments as FSANZ considers necessary
- 3. Option 3 reject the draft variations

7. Impact Analysis

The impact analysis represents likely impacts based on available information. The impact analysis is designed to assist in the process of identifying affected parties and any alternative options consistent with the objective of the proposed changes. Information from public submissions is sought to further assess the proposed changes.

The draft variations may be amended and option 2 recommended for approval where the need is identified. For example, an MRL may be retained rather than reduced or deleted where the necessity for the MRL to continue to allow for the importation and sale of safe food is identified through consultation. Further information to assist in identifying implications for imported foods is provided in section 9 of this Report and the requested variations are outlined in **Attachment 2**.

7.1 Affected Parties

The parties affected by proposed amendments include:

- consumers;
- growers and producers;
- importers of agricultural produce and food products;
- the chemical industry; and
- Australian Government, State and Territory agencies involved in monitoring and regulating the use of agricultural and veterinary chemicals in food and the potential resulting residues.

7.2 Benefit Cost Analysis

7.2.1 Option 1 – approve the draft variations

This option may contribute to community confidence that regulatory authorities are maintaining standards to minimise residues of agricultural and veterinary chemicals in the food supply. FSANZ does not consider there to be any dietary exposure implications associated with the proposed approval. The risk assessment has determined that there are no public health or safety concerns associated with the proposed variations. No additional costs to consumers have been identified.

Progressing this option benefits growers and producers as agricultural and food Standards are further aligned. This means that foods produced in accordance with agricultural Standards and legislation may be sold under food legislation as MRL variations are incorporated in the Code.

Omitting or reducing MRLs is unlikely to result in any costs for producers as changes in use patterns are made as required; current proper use results in compliance with these variations already.

Importers may benefit or be disadvantaged by the approval of the proposed draft variations. Additional or increased MRLs may benefit importers and consequently consumers in that this may extend the options to source safe foods. Any MRL deletions or reductions have the potential to restrict importation of foods and could potentially result in higher food prices and a reduced product range available to consumers. Interested parties are invited to comment on these impacts during the public consultation period. This is to ensure that any adverse consequences of the proposed variations can be addressed. Imported foods and Codex MRLs and are addressed in section 9 of this Report.

This option benefits Australian Government, State and Territory agencies in that it serves to further harmonise agricultural and food standards, this is of particular assistance to compliance agencies. Achieving further consistency between agricultural and food legislation would minimise compliance costs to primary producers and assist in efficient enforcement of regulations. This option is unlikely to result in discernable costs to Government agencies, although an awareness of changes in the standards for residues in food would be needed and there may be minimal impacts associated with slight changes to residue monitoring programs.

7.2.2 Option 2 – after the submission period, approve the draft variations subject to such amendments as FSANZ considers necessary

FSANZ will consider any comments received and may amend the draft variations following further assessment.

7.2.3 Option 3 – reject the draft variations

This option would allow inconsistencies between agricultural and food legislation to perpetuate as the Code would not reflect legitimate use of chemical products in Australia as determined by the APVMA. This may result in foods legitimately treated during production not being permitted for sale. Producers would incur significant costs. This may also create uncertainty, inefficiency and confusion in the enforcement of regulations. In addition, the anomalies between the Code and international standards identified by industry would perpetuate and may have implications for trade in certain foods. This would impact negatively on all affected parties and producers, industry and compliance agencies in particular.

Importers may benefit if proposed MRL deletions or reductions are not progressed as the continuity of existing limits could be relied upon. However, there is scope under current processes to retain specific MRLs where the necessity for the MRL to continue to allow the importation and sale of safe food is identified through consultation. This is discussed in section 9 of this Report. Importers and consequently consumers may be disadvantaged where proposed additional or increased MRLs are not progressed as this may unnecessarily limit sources of certain foods.

7.2.4 Summary

FSANZ conducted a Best Practice Regulation Preliminary Assessment and concluded that business compliance costs and other impacts on business, individuals, regulatory agencies and the economy are low or nil. The regulatory proposal does not impose impacts on business, individuals, regulatory agencies or the economy that warrant further analysis. The changes to regulation are machinery in nature involving technical variations to the Standard which will not have appreciable impacts and are consistent with existing policy.

7.3 Comparison of Options

In assessing proposed variations to the Code, FSANZ considers the impact of various regulatory and non-regulatory options on all sectors of the community, including consumers, food industries and governments in Australia.

FSANZ recommends approving option 1 – approve the draft variations for the following reasons:

- There are no public health and safety concerns associated with the proposed variations.
- This approach ensures openness and transparency in relation to the residues that could reasonably occur in food.
- The changes would minimise potential costs to primary producers, rural and regional communities and importers in terms of permitting the sale of food containing legitimate residues.
- The changes would minimise residues in food consistent with the effective use of agricultural and veterinary chemicals to control pests and diseases.
- The changes would further align the Code with international standards.
- The changes would remove inconsistencies between agricultural and food standards and assist compliance agencies.

Option 2 may be recommended at the Approval stage subject to the need for any required amendments being identified through consultation and further assessment.

Option 3 is an undesirable option because potential substantial costs to primary producers may result. Additional costs may impact negatively on their viability and in turn the viability of the rural and regional communities that depend upon the sale of agricultural produce. This option may restrict the opportunity for importers to source safe produce or foods internationally and potentially impact consumers through higher food prices and limited choice. Also, consequent inconsistencies between agricultural and food legislation could have negative impacts on compliance costs for producers, perception problems in export markets and undermine the efficient enforcement of standards for chemical residues.

The benefits of progressing option 1 outweigh any associated costs.

COMMUNICATION AND CONSULTATION STRATEGY

8. Communication

FSANZ consideration of amending limits in the Code for residues of agricultural or veterinary chemicals in food does not normally generate public interest. FSANZ adopts a basic communication strategy, with a focus on alerting the community that a change to the Code is being contemplated.

FSANZ publishes the details of proposed changes and subsequent assessment reports on its website, notifies the community of the period of public consultation through newspaper advertisements, and issues media releases drawing attention to proposed Code amendments. Once the Code has been amended, FSANZ incorporates the changes in the website version of the Code and, through its email and telephone information service, responds to industry enquiries.

Should the media show an interest in any of the chemicals being assessed, FSANZ or the APVMA can provide background information as required.

9. Consultation

FSANZ is seeking public comment on the proposed changes to the Code outlined in this Report to assist in finalising the assessment. Comments on, but not limited to, any impacts (costs/benefits) of the proposed variations, in particular the likely impacts on importation of food if specific variations are advanced; any public health and safety considerations associated with the proposed changes; and any other affected parties would be useful.

9.1 World Trade Organization

As a member of the World Trade Organization (WTO), Australia is obligated to notify WTO member nations where proposed mandatory regulatory measures are inconsistent with any existing or imminent international standards and the proposed measure may have a significant effect on trade.

Limits prescribed in the Code constitute a mandatory requirement applying to all food products of a particular class whether produced domestically or imported. Food products with residues exceeding the relevant limit listed in the Code cannot legally be supplied in Australia.

This Proposal includes consideration of varying limits in the Code for residues of agricultural and veterinary chemicals in food that are addressed in the international Codex standard. Limits in the Proposal relate to chemical residues that may occur in heavily traded agricultural commodities that may indirectly have a significant effect on trade of derivative food products between WTO members.

This Proposal will be notified as a Sanitary and Phytosanitary (SPS) measure in accordance with the WTO Agreement on the Application of SPS Measures as the primary objective of the measure is to support the regulation of the use of agricultural and veterinary chemical products to protect human, animal and plant health and the environment.

9.2 Codex Alimentarius Commission Standards

Codex standards are used as the relevant international standard or basis as to whether a new or changed standard requires a WTO notification.

FSANZ may consider varying limits for residues of agricultural or veterinary chemicals in food in a Proposal where interested parties have identified anomalies between the Code and international standards that may result in adverse impacts. FSANZ must have regard to its WTO obligations, the promotion of consistency between domestic and international food standards; and the promotion of fair trading in food. These matters encompass a consideration of international standards and trade issues. The assessment gives careful consideration to public health and safety.

Industry provided information that anomalies between the Code and international standards may present barriers to trade in certain foods. This Proposal includes proposed limits for cypermethrin, dieldrin, fenhexamid, fenvalerate and glufosinate-ammonium to address these issues. Further detail is provided at **Attachment 2**. The proposed variations to the Code would align limits in the Code with international standards and permit the sale of relevant foods containing legitimate residues that do not present health or safety concerns.

The following table lists proposed limits where there is a corresponding Codex limit. Note that a 'T' indicates that the limit is temporary and an 'E' indicates an extraneous residue limit.

| Chemical | Proposed limit | Codex limit |
|--------------------------------|----------------|------------------------------------|
| Food | mg/kg | mg/kg |
| Bifenazate | | |
| Cucumber | T0.5 | Fruiting vegetables, cucurbits 0.5 |
| Peppers, Sweet | T2 | 2 |
| Tomato | T0.5 | 0.5 |
| Boscalid | | |
| Apple | 2 | 2 |
| Cypermethrin | | |
| Berries and other small fruits | 0.5 | Berries and other small fruits |
| [except grapes] | | 0.5 |
| Dieldrin | | |
| Fruiting vegetables, cucurbits | E0.1 | 0.1 |
| Root and tuber vegetables | E0.1 | 0.1 |
| Fenhexamid | | |
| Kiwifruit | 15 | Kiwi 15 |
| Fenvalerate | | |
| Berries and other small fruits | 1 | 1 |
| Glufosinate-ammonium | | |
| Maize | 0.2 | 0.1 |
| Rape seed | 5 | 5 |
| Soya bean (dry) | 2 | 2 |
| Prochloraz | | |
| Mandarins | T10 | Citrus fruits 10 |
| Pyraclostrobin | | |
| Sunflower seed | T0.3 | 0.3 |

FSANZ invites comment on any possible ramifications of the proposed MRLs.

9.3 New Zealand Standards

All imported and domestically produced food sold in New Zealand (except for food imported from Australia) must comply with the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards 2008 and amendments (the New Zealand MRL Standards).

Under the New Zealand MRL Standards, agricultural chemical residues in food must comply with the specific MRLs listed in the Standards. The New Zealand MRL Standards also include a provision for residues of up to 0.1 mg/kg for agricultural chemical / commodity combinations not specifically listed. If the food is imported, it may comply with Codex MRLs. Further information about the New Zealand MRL Standards is available on the New Zealand Food Safety Authority website at: http://www.nzfsa.govt.nz/acvm/registers-lists/nz-mrl/index.htm

Limits in the Code and in the New Zealand MRL Standards may differ for a number of legitimate reasons including differing use patterns for chemical products as a result of varying pest and disease pressures and varying climatic conditions.

The following table lists the proposed variations to MRLs or ERLs and includes the corresponding MRL in the New Zealand MRL Standards. Note that a 'T' indicates that the limit is temporary; an 'E' indicates that the limit is an ERL; and an asterisk indicates that the limit is at or about the limit of analytical quantification.

| Chemical Food | Proposed MRL/ERL mg/kg | NZ MRL/ERL mg/kg |
|---------------------------------|---------------------------|--------------------------------|
| Azoxystrobin | mg/kg | mg/kg |
| Bulb vegetables [except fennel, | Т7 | Onions *0.01 |
| bulb; onion, bulb] | | 0 |
| Leek | Omit 0.5 | |
| Bifenthrin | | |
| Fruiting vegetables, other than | 0.5 | Tomatoes 0.05 |
| cucurbits | | |
| Boscalid | | |
| Apple | 2 | Pome fruits *0.05 |
| Dieldrin | | Specific limits are listed for |
| | | cereals, citrus and fats. |
| Fruiting vegetables, cucurbits | E0.1 | Any other food 0.1 |
| Root and tuber vegetables | E0.1 | |
| Dithiocarbamates | | |
| Litchi | 5 | Fruits 7 |
| Halofuginone | | |
| Cattle fat | 0.025 | 0.02 |
| Cattle kidney | 0.03 | 0.03 |
| Cattle liver | 0.03 | 0.03 |
| Cattle muscle | 0.01 | Cattle meat 0.01 |
| Pyraclostrobin | | |
| Apple | 1 | Apples *0.02 |

FSANZ requests comment on the proposed MRLs/ERLs in relation to the corresponding New Zealand MRLs.

9.4 Imported Foods

Internationally, countries set MRLs according to good agricultural practice (GAP) or good veterinary practice (GVP). Agricultural and veterinary chemicals are used differently in different countries around the world as pests, diseases and environmental factors differ and because product use patterns differ. This means that residues in imported foods may be legitimately different from those in domestically produced foods.

Deletions or reductions of MRLs may impact imported foods that may comply with existing MRLs even though these existing MRLs are no longer required for domestically produced

food. This is because imported foods may contain residues consistent with the MRLs proposed for deletion or reduction.

FSANZ is committed to ensuring that the implications of MRL variations are considered. Under the current process for considering variations to the Code, FSANZ encourages submissions including specific data demonstrating a need for certain MRLs to be retained or varied. FSANZ will consider retaining MRLs proposed for deletion or reduction where these MRLs are necessary to continue to allow the sale of safe food; and where the MRLs are supported by adequate data or information demonstrating that the residues associated with these MRLs do not raise any public health or safety concerns. Further information on data requirements may be obtained from FSANZ.

To assist in identifying possible impacts on imported foods, FSANZ has compiled the following table of foods where the MRLs are proposed for deletion or reduction. All the proposed MRL variations to the Code are at **Attachment 1** and the requested changes are outlined in more detail in **Attachment 2**.

| Chemical |
|-----------------|
| Food |
| Etoxazole |
| Stone fruits |
| Isoxaflutole |
| Cereal grains |
| Metribuzin |
| Sugar cane |
| Pirimicarb |
| Soya bean (dry) |
| Pymetrozine |
| Almonds |

FSANZ requests comment on any possible ramifications of the proposed deletion or reduction of MRLs in this Proposal for imported foods.

CONCLUSION

10. Conclusion and Preferred Option

This Proposal has been assessed against the considerations provided for in section 59 of the FSANZ Act.

The preferred approach is to adopt option 1 to approve the draft variations.

Preferred Approach

FSANZ recommends the proposed draft variations to Standards 1.3.1 – Food Additives and 1.4.2 – Maximum Residue Limits. The residues associated with the proposed variations do not present any public health and safety concerns and the proposed draft variations are necessary, cost-effective and will benefit consumers, Government and industry. The proposed draft variations will permit the sale foods containing legitimate residues.

10.1 Reasons for Preferred Approach

FSANZ recommends the proposed draft variations to Standards 1.3.1 and 1.4.2 for the following reasons:

- MRLs serve to protect public health and safety by minimising residues in food consistent with the effective control of pests and diseases.
- Dietary exposure assessments indicate that the proposed variations do not present any public health and safety concerns.
- This approach ensures openness and transparency in relation to the residues that could reasonably occur in food.
- The proposed variations will benefit stakeholders by maintaining public health and safety while permitting the legal sale of food containing legitimate residues of agricultural and veterinary chemicals used to control pests and diseases and improve agricultural productivity.
- The APVMA has assessed appropriate residue, animal transfer, processing and metabolism studies, in accordance with *The Manual of Requirements and Guidelines –* MORAG – for Agricultural and Veterinary Chemicals 1 July 2005 to support the use of chemicals on commodities as outlined in this Proposal.
- The Office of Chemical Safety (OCS) has undertaken a toxicological assessment of each chemical and has established an ADI and where appropriate an ARfD.
- FSANZ has undertaken a preliminary regulation impact assessment and concluded that the proposed draft variations are necessary, cost-effective and beneficial.
- The proposed draft variations would remove inconsistencies between agricultural and food standards and provide certainty and consistency for producers, importers and Australian, State and Territory compliance agencies.
- The proposed changes are consistent with the FSANZ Act section 18 objectives.

11. Implementation and Review

The use of chemical products and MRLs are under constant review as part of the APVMA Chemical Review Program. In addition, regulatory agencies continue to monitor health, agricultural and environmental issues associated with chemical product use. Residues in food are also monitored through:

- State and Territory residue monitoring programs;
- Australian Government programs such as the National Residue Survey; and
- dietary exposure studies such as the Australian Total Diet Study.

These monitoring programs and the continual review of the use of agricultural and veterinary chemicals mean that there is considerable scope to review limits in the Code.

It is proposed that the variations in this Proposal should take effect on gazettal and that the limits be subject to existing monitoring arrangements.

ATTACHMENTS

- 1. Draft variations to the Australia New Zealand Food Standards Code
- 2. A Summary of Limits Under Consideration in Proposal M1003
- 3. Safety Assessment Methodology
- 4. Background Information

Attachment 1

Draft variations to the Australia New Zealand Food Standards Code

Subsection 87(8) of the FSANZ Act provides that standards or variations to standards are legislative instruments, but are not subject to disallowance or sunsetting

To commence: on gazettal

- [1] Standard 1.3.1 of the Australia New Zealand Food Standards Code is varied by -
- [1.1] inserting in Schedule 1, under item 4.1 Unprocessed fruits and vegetables –

blueberries

220 221 222 223 Sulphur dioxide and sodium 10 mg/kg 224 225 228 and potassium sulphites

[1.2] omitting from Schedule 1, under item 4.1 Unprocessed fruits and vegetables –

Longans

220 221 222 223 Sulphur dioxide and sodium 10 mg/kg 224 225 228 and potassium sulphites

substituting -

longan

220 221 222 223 Sulphur dioxide and sodium 10 mg/kg edible aril only, that is, the edible portion of the fruit

- [2] Standard 1.4.2 of the Australia New Zealand Food Standards Code is varied by -
- [2.1] omitting from Schedule 1, the commodity name under the chemical appearing in Column 1 of the Table to this sub-item, substituting the commodity name appearing in Column 2 –

| Column 1 | Column 2 |
|----------|----------------|
| MALDISON | CURRANT, BLACK |

[2.2] omitting from Schedule 1 the chemical residue definition for the chemical appearing in Column 1 of the Table to this sub-item, substituting the chemical residue definition appearing in Column 2 —

| Column 1 | Column 2 |
|------------|-------------------------------------|
| ABAMECTIN | SUM OF AVERMECTIN B1A, AVERMECTIN |
| | B1B AND (Z)-8,9 AVERMECTIN B1A, AND |
| | (Z)-8,9 AVERMECTIN B1B |
| Propachlor | SUM OF PROPACHLOR AND METABOLITES |
| | HYDROLYSABLE TO N-ISOPROPYLANILINE, |
| | EXPRESSED AS PROPACHLOR |

[2.3] inserting in Schedule 1 –

| FLUBENDIAMIDE | | |
|---|---|--|
| COMMODITIES OF PLANT ORIGIN: FLUBEN | DIAMIDE | |
| COMMODITIES OF ANIMAL ORIGIN: SUI | M OF | |
| FLUBENDIAMIDE AND 3-IODO- <i>N</i> -(2-METI | HYL-4- | |
| [1,2,2,2-TETRAFLUORO-1- | | |
| (TRIFLUOROMETHYL)ETHYL]PHENYL)PHTH | IAI IMIDE | |
| EXPRESSED AS FLUBENDIAMIDE | , | |
| BRASSICA (COLE OR CABBAGE) | T3 | |
| | 13 | |
| VEGETABLES, HEAD | | |
| CABBAGES, FLOWERHEAD | | |
| BRASSICAS | | |
| COMMON BEAN (PODS AND/OR | T2 | |
| IMMATURE SEEDS) | | |
| LETTUCE, HEAD | T5 | |
| LETTUCE, LEAF | T5 | |
| PEPPERS, SWEET | T1 | |
| SWEET CORN (CORN-ON-THE- | T*0.05 | |
| COB) | . 0.00 | |
| TOMATO | T2 | |
| TOWATO | 12 | |
| Profoxydim | | |
| SUM OF PROFOXYDIM AND ALL METABO | NUTEC | |
| | LITES | |
| CONVERTED TO DIMETHYL-3-(3- | //D.A.T.O.L | |
| THIANYL)GLUTARATE-S-DIOXIDE AFTER OXIDATION | | |
| AND TREATMENT WITH ACIDIC METHANOL, | | |
| | | |
| EXPRESSED AS PROFOXYDIM | NOL, | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) | 0.5 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS | 0.5 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) | 0.5 *0.05 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS | 0.5 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS | 0.5 *0.05 *0.05 *0.01 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF | 0.5 *0.05 *0.05 *0.01 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT | 0.5 *0.05 *0.05 *0.01 *0.05 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF | 0.5 *0.05 *0.05 *0.01 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE | 0.5 *0.05 *0.05 *0.01 *0.05 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM | 0.5 *0.05 *0.05 *0.01 *0.05 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM | 0.5 *0.05 *0.05 *0.01 *0.05 *0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) | 0.5 *0.05 *0.05 *0.01 *0.05 *0.05 0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) EGGS | *0.05 *0.05 *0.05 *0.05 *0.05 *0.05 0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) | *0.05 *0.05 *0.05 *0.05 *0.05 *0.05 0.05 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS | *0.05 *0.05 *0.05 *0.01 *0.05 *0.05 0.05 *0.01 *0.01 *0.01 *0.01 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF | *0.05 *0.05 *0.05 *0.01 *0.05 *0.05 0.05 *0.01 *0.01 *0.01 *0.01 *0.01 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT | *0.05 *0.05 *0.05 *0.01 *0.05 *0.05 0.05 *0.01 *0.01 *0.01 *0.01 *0.01 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF | *0.05 *0.05 *0.05 *0.01 *0.05 *0.05 0.05 *0.01 *0.01 *0.01 *0.01 *0.01 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT | *0.05 *0.05 *0.05 *0.01 *0.05 *0.05 0.05 *0.01 *0.01 *0.01 *0.01 *0.01 | |
| EXPRESSED AS PROFOXYDIM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT RICE PYROXSULAM PYROXSULAM PYROXSULAM EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT | *0.05 *0.05 *0.05 *0.01 *0.05 *0.05 0.05 *0.01 *0.01 *0.01 *0.01 *0.01 | |

[2.4] omitting from Schedule 1 the foods and associated MRLs for each of the following chemicals –

| | AZOXYSTROBIN AZOXYSTROBIN | |
|-----------|------------------------------|------|
| LEEK | | 0.5 |
| | BIFENTHRIN | |
| | BIFENTHRIN | |
| EGG PLANT | | T0.5 |
| OKRA | | T0.5 |
| PEPPERS | | T0.5 |

| Томато | 0.5 |
|---|---------------------|
| ETOXAZOLE ETOXAZOLE | |
| APPLE PEAR STONE FRUITS | 0.2 T0.2 T0.5 |
| FENVALERATE FENVALERATE, SUM OF ISOMERS | |
| STRAWBERRY | 1 |
| HALOFUGINONE HALOFUGINONE | |
| CATTLE MEAT | T*0.01 |
| INDOXACARB SUM OF INDOXACARB AND ITS R-ISOME | =R |
| STRAWBERRY | T1 |
| ISOXAFLUTOLE THE SUM OF ISOXAFLUTOLE, 2- CYCLOPROPYLCARCONYL-3-(2-METHYLSUL 4-TRIFLUOROMETHYLPHENYL)-3- OXOPROPANENITRILE AND 2-METHYLSULFO TRIFLUOROMETHYLBENZOIC ACID EXPRESS ISOXAFLUTOLE CEREAL GRAINS LINURON | NYL-4- |
| SUM OF LINURON PLUS 3,4-DICHLOROANI EXPRESSED AS LINURON | LINE, |
| VEGETABLES [EXCEPT CELERY AND LEEK] | *0.05 |
| PHOSPHOROUS ACID PHOSPHOROUS ACID | |
| ASSORTED TROPICAL AND SUBTROPICAL FRUITS – INEDIBLE PEEL | T100 |
| PIRIMICARB SUM OF PIRIMICARB, DEMETHYL-PIRIMICAR THE N-FORMYL-(METHYLAMINO) ANALOG (DEMETHYLFORMAMIDO-PIRIMICARB), EXPR AS PIRIMICARB | GUE |
| VEGETABLES [EXCEPT AS OTHERWISE LISTED UNDER THIS CHEMICAL] | 1 |

[2.5] inserting in alphabetical order in Schedule 1, the foods and associated MRLs for each of the following chemicals –

| AZOXYSTROBIN | |
|----------------------------|----|
| Azoxystrobin | |
| BULB VEGETABLES [EXCEPT | T7 |
| FENNEL, BULB; ONION, BULB] | |
| - | |

BIFENAZATE

SUM OF BIFENAZATE AND BIFENAZATE DIAZENE (DIAZENECARBOXYLIC ACID, 2-(4-METHOXY-[1,1'-BIPHENYL-3-YL] 1-METHYLETHYL ESTER), EXPRESSED AS BIFENAZATE

| CUCUMBER | T0.5 |
|----------------|------|
| PEPPERS, SWEET | T2 |
| Томато | T0.5 |

BIFENTHRINBIFENTHRIN

FRUITING VEGETABLES, OTHER 0.5
THAN CUCURBITS

BOSCALID

COMMODITIES OF PLANT ORIGIN: BOSCALID COMMODITIES OF ANIMAL ORIGIN: SUM OF BOSCALID, 2-CHLORO-N-(4'-CHLORO-5-HYDROXYBIPHENYL-2-YL) NICOTINAMIDE AND THE GLUCURONIDE CONJUGATE OF 2-CHLORO-N-(4'-CHLORO-5-HYDROXYBIPHENYL-2-YL) NICOTINAMIDE, EXPRESSED AS BOSCALID EQUIVALENTS

APPLE 2

CARBOFURAN

SUM OF CARBOFURAN AND 3-HYDROXYCARBOFURAN, EXPRESSED AS CARBOFURAN

GARLIC T0.1

CYHALOTHRIN

CYHALOTHRIN, SUM OF ISOMERS

GARLIC *0.05

CYPERMETHRIN

CYPERMETHRIN, SUM OF ISOMERS

BERRIES AND OTHER SMALL FRUITS [EXCEPT GRAPES]

DITHIOCARBAMATES

TOTAL DITHIOCARBAMATES, DETERMINED AS CARBON DISULPHIDE EVOLVED DURING ACID DIGESTION AND EXPRESSED AS MILLIGRAMS OF CARBON DISULPHIDE PER KILOGRAM OF FOOD

HERBS [EXCEPT PARSLEY] T5

| ETOXAZOLE ETOXAZOLE | |
|-------------------------------|------|
| LTOXAZOLL | |
| CITRUS FRUITS | T0.1 |
| DRIED GRAPES | 0.2 |
| FRUITING VEGETABLES, OTHER | T0.1 |
| THAN CUCURBITS | |
| POME FRUITS | 0.2 |
| STONE FRUITS [EXCEPT | 0.1 |
| CHERRIES] | |

0.5

| FENHEXAMID | |
|---|---|
| FENHEXAMID KIWIFRUIT | 15 |
| Tivi ton | 10 |
| FENVALERATE | |
| FENVALERATE, SUM OF ISOMERS | |
| BERRIES AND OTHER SMALL FRUITS | 1 |
| FRUITS | |
| GLUFOSINATE AND GLUFOSINATE-AMMONIU SUM OF GLUFOSINATE-AMMONIUM, N-ACETY GLUFOSINATE AND 3-[HYDROXY(METHYL)- PHOSPHINOYL] PROPIONIC ACID, EXPRESSED GLUFOSINATE (FREE ACID) | YL |
| MAIZE SOYA BEAN (DRY) | 0.2 |
| HALOFUGINONE | |
| HALOFUGINONE | |
| | 0.025 |
| CATTLE MUSCLE | 0.01 |
| INDOXACARB | |
| SUM OF INDOXACARB AND ITS R-ISOMER | |
| BERRIES AND OTHER SMALL | T1 |
| FRUITS [EXCEPT GRAPES] | T5 |
| CELERY | 15 |
| LINURON | |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON | IE, |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC | T0.5 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; ** | T0.5 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] | T0.5 0.05 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIM EXPRESSED AS METHOMYL | T0.5 0.05 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIN EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH | T0.5 '0.05 'E'), |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIM EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT | T0.5 0.05 (E'), |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIM EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION | T0.5 0.05 (E'), |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIM EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT | T0.5 0.05 (E'), |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIN EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION SWEDE TURNIP, GARDEN | T0.5 f0.05 1E'), 1 1 1 1 1 T1 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIN EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION SWEDE TURNIP, GARDEN | T0.5 f0.05 1E'), 1 1 1 1 1 T1 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIN EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION SWEDE TURNIP, GARDEN | T0.5 f0.05 1E'), 1 1 1 1 1 T1 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIM EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION SWEDE TURNIP, GARDEN METRIBUZIN METRIBUZIN SUGAR CANE MOLASSES | T0.5 0.05 (E'), 1 1 1 1 1 T1 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIM EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION SWEDE TURNIP, GARDEN METRIBUZIN METRIBUZIN SUGAR CANE MOLASSES | T0.5 0.05 (E'), 1 1 1 1 1 T1 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIM EXPRESSED AS METHOMYL SEE ALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION SWEDE TURNIP, GARDEN METRIBUZIN METRIBUZIN SUGAR CANE MOLASSES PHOSPHOROUS ACID PHOSPHOROUS ACID | T0.5 0.05 (E'), 1 1 1 1 1 T1 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIN EXPRESSED AS METHOMYL SEPALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION SWEDE TURNIP, GARDEN METRIBUZIN METRIBUZIN SUGAR CANE MOLASSES PHOSPHOROUS ACID PHOSPHOROUS ACID ASSORTED TROPICAL AND SUBTROPICAL FRUITS — INEDIBLE | T0.5 0.05 1E'), 1 1 1 1 1 T1 T1 0.1 |
| SUM OF LINURON PLUS 3,4-DICHLOROANILIN EXPRESSED AS LINURON CELERIAC VEGETABLES [EXCEPT CELERIAC; * CELERY; LEEK] METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL OXIN EXPRESSED AS METHOMYL SEPALSO THIODICARB ONION, WELSH RADISH SHALLOT SPRING ONION SWEDE TURNIP, GARDEN METRIBUZIN METRIBUZIN SUGAR CANE MOLASSES PHOSPHOROUS ACID PHOSPHOROUS ACID ASSORTED TROPICAL AND SUBTROPICAL FRUITS — INEDIBLE PEEL [EXCEPT AVOCADO] | T0.5 0.05 1E'), 1 1 1 1 1 T1 T1 0.1 |

| PIRIMICARB | |
|---|----------------|
| SUM OF PIRIMICARB, DEMETHYL-PIRIMICARE | |
| THE <i>N</i> -FORMYL-(METHYLAMINO) ANALOG | |
| (DEMETHYLFORMAMIDO-PIRIMICARB), EXPRE | ESSED |
| AS PIRIMICARB | |
| SOYA BEAN (DRY) | T0.5 |
| VEGETABLES [EXCEPT LEAFY | 1 |
| VEGETABLES; LUPIN (DRY); SOYA | |
| BEAN (DRY)] | |
| | |
| Prochloraz | |
| SUM OF PROCHLORAZ AND ITS METABOLIT | TES |
| CONTAINING THE 2,4,6-TRICHLOROPHEN | NOL |
| | |
| MOIETY, EXPRESSED AS PROCHLORA | |
| MOIETY, EXPRESSED AS PROCHLORAL MANDARINS | |
| | Z |
| | Z |
| MANDARINS | Z |
| MANDARINS PYRACLOSTROBIN | Z |
| PYRACLOSTROBIN COMMODITIES OF PLANT ORIGIN: | Z T10 |
| PYRACLOSTROBIN COMMODITIES OF PLANT ORIGIN: PYRACLOSTROBIN | Z T10 |
| PYRACLOSTROBIN COMMODITIES OF PLANT ORIGIN: PYRACLOSTROBIN COMMODITIES OF ANIMAL ORIGIN: SUM | T10 OF OLYSED |
| PYRACLOSTROBIN COMMODITIES OF PLANT ORIGIN: PYRACLOSTROBIN COMMODITIES OF ANIMAL ORIGIN: SUM OF PYRACLOSTROBIN AND METABOLITES HYDRO | T10 OF OLYSED |
| PYRACLOSTROBIN COMMODITIES OF PLANT ORIGIN: PYRACLOSTROBIN COMMODITIES OF ANIMAL ORIGIN: SUM OF PYRACLOSTROBIN AND METABOLITES HYDRO TO 1-(4-CHLORO-PHENYL)-1H-PYRAZOL-3 | T10 OF OLYSED |
| PYRACLOSTROBIN COMMODITIES OF PLANT ORIGIN: PYRACLOSTROBIN COMMODITIES OF ANIMAL ORIGIN: SUM PYRACLOSTROBIN AND METABOLITES HYDRO TO 1-(4-CHLORO-PHENYL)-1H-PYRAZOL-3 EXPRESSED AS PYRACLOSTROBIN | T10 OF OLYSED |

[2.6] omitting from Schedule 1, under the entries for the following chemicals, the MRL for the food, substituting –

| ABAMECTIN | |
|--|------|
| SUM OF AVERMECTIN B1A, AVERMECTIN B1B A | AND |
| (z)-8,9 AVERMECTIN B1A, AND (z)-8,9 AVERME | CTIN |
| в1в | |
| CURRANT, BLACK | 0.02 |
| PEAS | T0.5 |
| | |
| BIFENTHRIN | |
| BIFENTHRIN | |
| COMMON BEAN (PODS AND/OR | T1 |
| IMMATURE SEEDS) | |
| | |
| DITHIOCARBAMATES | |
| TOTAL DITHIOCARBAMATES, DETERMINED A | S |
| CARBON DISULPHIDE EVOLVED DURING ACII | D |
| DIGESTION AND EXPRESSED AS MILLIGRAMS | OF |
| CARBON DISULPHIDE PER KILOGRAM OF FOC | D |
| LITCHI | 5 |
| | |
| GLUFOSINATE AND GLUFOSINATE-AMMONIU | JM |
| SUM OF GLUFOSINATE-AMMONIUM, N-ACETY | ΥL |
| GLUFOSINATE AND 3-[HYDROXY(METHYL)- | |
| PHOSPHINOYL] PROPIONIC ACID, EXPRESSED | AS |
| GLUFOSINATE (FREE ACID) | |
| RAPE SEED | 5 |
| | |
| HALOFUGINONE | |
| Halofuginone | |
| CATTLE KIDNEY | 0.03 |

| CATTLE LIVER | 0.03 |
|--|--|
| ISOXAFLUTOLE THE SUM OF ISOXAFLUTOLE, 2- CYCLOPROPYLCARCONYL-3-(2-METHYLSUL 4-TRIFLUOROMETHYLPHENYL)-3- OXOPROPANENITRILE AND 2-METHYLSULFO TRIFLUOROMETHYLBENZOIC ACID EXPRESS ISOXAFLUTOLE | NYL-4- |
| CHICK-PEA (DRY) EDIBLE OFFAL (MAMMALIAN) EGGS MEAT (MAMMALIAN) MILKS POULTRY, EDIBLE OFFAL OF POULTRY MEAT SUGAR CANE | *0.03 *0.05 *0.05 *0.05 *0.05 *0.05 *0.05 *0.05 |
| METHOMYL SUM OF METHOMYL AND METHYL HYDROXYTHIOACETIMIDATE ('METHOMYL C EXPRESSED AS METHOMYL SEE ALSO THIODICARB | ,. |
| ВЕЕТКООТ | 1 |
| Metribuzin Metribuzin | |
| SUGAR CANE | *0.02 |
| PYMETROZINE PYMETROZINE | |
| ALMONDS | T*0.01 |
| TRINEXAPAC-ETHYL 4-(CYCLOPROPYL-α-HYDROXY-METHYLEN DIOXO-CYCLOHEXANECARBOXYLIC AC | ID |
| SUGAR CANE | T0.2 |

[2.7] omitting from Schedule 2 the foods and associated ERLs for each of the following chemicals –

| ALDRIN AND DIELDRIN SUM OF HHDN AND HEOD | |
|---|------|
| CARROT | E0.1 |
| CUCUMBER | E0.1 |
| HORSERADISH | E0.1 |
| PARSNIP | E0.1 |
| Ротато | E0.1 |
| RADISH | E0.1 |
| | |

[2.8] inserting in alphabetical order in Schedule 2, the foods and associated ERLs for each of the following chemicals –

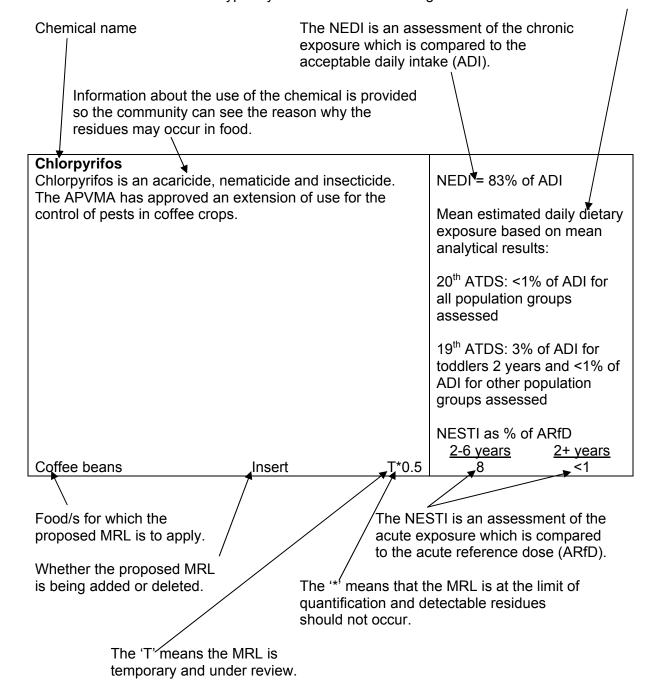
| ALDRIN AND DIELDRIN SUM OF HHDN AND HEOD | |
|---|------|
| FRUITING VEGETABLES, CUCURBITS | E0.1 |
| ROOT AND TUBER VEGETABLES | E0.1 |

Attachment 2

A summary of limits under consideration in Proposal M1003

The following is an example of an entry and the proposed MRL is not being considered in this Proposal. Further information on calculating dietary exposure is provided at **Attachment 3**.

Data from the 19th and 20th ATDS are provided when available because they provide an indication of the typical exposure to chemicals in table ready foods. The ATDS results are more realistic because analysed concentrations of the chemical in foods as consumed are used. The National Estimated Daily Intake (NEDI) and National Estimated Short Term Intake (NESTI) calculations are theoretical calculations that protectively overestimate exposure. Small variations may be noted in the exposure assessment between different ATDSs. These variations are minor and are typically due to the different range of foods in the individual studies.



SUMMARY OF MRLS AND ERLS UNDER CONSIDERATION IN PROPOSAL M1003 APVMA MRLS – APRIL, MAY, JUNE, AUGUST 2008 AND INDUSTRY REQUESTS

| Requested MRLs/ERLs expresse chemical per kilogram of the foo | | | Dietary Exposure Assessment | |
|--|---|--------------------------|-----------------------------|----------------------|
| Abamectin | u (ilig/kg) | | ASSESSITION | |
| Abamectin is an insecticide and ac stomach action. It inhibits stimulating gamma-aminobutyric acid regulate allowing free passage of chloride ic to control mites on cotton and various APVMA has issued permits for its in (Tetranychus urticae) on blackcurra peas. | on of neurons by binding d chloride channels and ons into the neuron. It is ous fruits and vegetables use to control two spotte | used s. The d mite | NEDI = 77% of ADI | |
| Minor technical amendment to resi | due definition: | | | |
| Omit: Sum of avermectin b1a, aver avermectin b1a, and (z)-8,9 averm | | | | |
| Substitute: Sum of avermectin B1a | , avermectin B1b and (Z | ()-8,9 | | |
| avermectin B1a, and (Z)-8,9 averm | | , , | NESTI as % of ARf | D |
| | | | <u>2-6 years</u> | 2+ years |
| Currant, black | Omit | T0.02 | | |
| | Substitute | 0.02 | 49 | 3 |
| Peas | Omit | T0.2 | | |
| | Substitute | T0.5 | 16 | 8 |
| Azoxystrobin Azoxystrobin is a broad spectrum feradicant, translaminar and system germination and mycelial growth the mitochondrial respiration in fungi. It groups of fungal disease caused by basidiomycetes, deuteromycetes a has issued a permit for its use to concepivorum) on alliums except bulb Bulb vegetables [except fennel, bulb; onion, bulb] Leek | nic properties. It inhibits a rough the inhibition of is used to control four n y ascomycetes, nd oomycetes. The APV ontrol white rot (Sclerotin | spore nain ′MA | NEDI = 4% of ADI | |
| Bifenazate | | | | |
| Bifenazate is a non-systemic acari | | οу | NEDI = 8% of ADI | |
| contact. It is used to control the eg | | | | |
| phytophagous mites on various cro | | | | |
| or other beneficial insects. The AP | | | | |
| its use to control mites (Tetranychu | <i>is urticae</i>) on cucumbers | 3, | NEOTI O/ . CARG | |
| capsicums and tomatoes. | | | NESTI as % of ARf | D <u>2+ years</u> |
| Cucumber | Insert | T0.5 | 3 | <1 |
| Peppers, Sweet | Insert | T2 | 6 | 3 |
| Tomato | Insert | T0.5 | 4 | 2 |

| Requested MRLs/ERLs expresse | | | Dietary Exposure |
|---|--|---|--|
| chemical per kilogram of the foo | a (mg/kg) | | Assessment |
| Bifenthrin Bifenthrin is a synthetic pyrethroid by affecting the salt balance (sodiu has a broad spectrum of activity ag toxic effect on the nervous system. range of foliar pests on cereal, fruit APVMA has issued permits for its u including silverleaf whitefly (Bemiss (Tetranychus urticae) on various or eggplants; and lettuce and beans. Note: The requested leafy vegetab progressed in M1002 and gazetted Common bean (pods and/or immature seeds) Egg plant Fruiting vegetables, other than cucurbits Okra Peppers | insecticide which kills insert channels) in nerve cel painst insects with the marked to control a brown and vegetable crops. Thuse to control various perior to the control of the control | lls. It ain oad ne sts d mite s and | NEDI = 76% of ADI Mean estimated daily dietary exposure based on mean analytical results: 20 th ATDS: <1% of ADI for all population groups assessed |
| Tomato Boscalid | Omit | 0.5 | |
| elongation, mycelial growth and sp succinate ubiquinone reductase (conclectron transport chain. It is used a range of fruit and vegetables. It is powdery mildew and <i>Alternaria</i> spp. Apple Carbofuran Carbofuran is a carbamate insection | omplex II) in the mitochorto control powdery milde is used to control black sport in apples. | w on | NESTI as % of ARfD 2-6 years 2 <1 NEDI = 38% of ADI |
| systemic with predominantly contact as a cholinesterase inhibitor. It is useful foliar-feeding insects and nematod APVMA has issued a permit for its garlic. Garlic | ct and stomach action. It sed to control soil-dwellir es on a various crops. Th | ng and ne | 11231 0070 017101 |
| Cypermethrin Cypermethrin is a pyrethroid, non-scontact and stomach action. It acts nervous system in very low doses. range of chewing and sucking inseproduction internationally. The Foo Association (FBIA) has requested incorporating the Codex cypermeth Code. Goji berries are imported to residues may occur. FSANZ has not Code in relation to Codex standard that there may be implications for the consequence. Berries and other small fruits | on the central and perip It is used to control a wid ct pests in horticulture ar d and Beverages Import that FSANZ consider arin MRL for berries in the Australia and legitimate oted the anomalies in the is for residues in berries | de nd fruit ers e | NEDI = 10% of ADI Mean estimated daily dietary exposure based on mean analytical results: 20 th ATDS: not detected in any foods sampled 19 th ATDS: <1% of ADI for all population groups assessed |
| [except grapes] | | | |

| Requested MRLs/ERLs express chemical per kilogram of the fo | | ie | Dietary Exposure Assessment |
|---|--|---|--|
| Dieldrin | (···ə··ə) | | |
| Dieldrin is an environmental conta foods grown some distance from chlorinated organic insecticides a windy conditions in drought years | sites of former applicati drin or dieldrin, particu . This is beyond the co | ion of the larly in ntrol of | Monitoring data indicate that the proposed ERLs do not raise health or safety concerns. |
| growers and may result in signific organochlorines have not been per agriculture for many years. An EF | ermitted or registered for LL is the maximum perr | or use in nitted | 20 th ATDS: not detected in any foods sampled |
| limit of a pesticide residue, arising other than the use of a pesticide of An 'E' appearing with a limit deno | lirectly or indirectly on t | the food. | 19 th ATDS: not detected in any foods sampled |
| listed under aldrin and dieldrin in a for a number of commodities. The detections of residues on vegetable such as pumpkins and melons, for the Code. These detections have residues persisting in the soil. AU representing vegetable growers, restablishing dieldrin ERLs for the cucurbits and root and tuber vegethis issue. This would be consisted and Codex standards. | Schedule 2 of Standardere have been sporadicules grown in contact with which no ERLs are listed been at levels consisted SVEG, the national peacequested that FSANZ crop groups fruiting vertables at 0.1 mg/kg to a | ith soil, sted in ent with ak body consider getables, address | Foods were analysed for dieldrin residues in the 23 rd ATDS. The data are currently being examined. |
| Carrot | Omit | E0.1 | |
| Cucumber | Omit Insert | E0.1 E0.1 | |
| Fruiting vegetables, cucurbits Horseradish | Omit | E0.1 | |
| Parsnip | Omit | E0.1 | |
| Potato | Omit | E0.1 | |
| Radish | Omit | E0.1 | |
| Root and tuber vegetables | Insert | E0.1 | |
| Etoxazole Etoxazole is an insecticide. It inhil by disrupting the cell wall. It is use pome fruit, stone fruit and table grapermit for its use to control mite vegetables. | ed to control various mi rapes. The APVMA has | tes on issued | NEDI = 2% of ADI |
| Note: The APVMA requested an egrapes. The APVMA reduced the T0.3 mg/kg to 0.1 mg/kg in the MI current domestic use pattern. Pre on including the T0.3 mg/kg MRL Table Grape Commission submitt was required. This MRL was subs FSANZ notes that the current US grapes is 0.5 ppm and for this reathe MRL of T0.5 mg/kg in the Coo | etoxazole MRL for gra RL Standard to reflect to viously, when FSANZ of in the Code, the Califoled that an MRL of T0.5 sequently gazetted in the tolerance for etoxazole son is consulting on re | pes of he consulted rnia 5 mg/kg ne Code. | |
| | | | NESTI as % of ARfD 2-6 years 2+ years |

| | sed in milligrams of | the | | y Exposure sment | |
|--|---|---|--|--|-------------|
| chemical per kilogram of the fo | Omit | 0.2 | ASSES | SIIIGIII | |
| Apple | | | -4 | | -4 |
| Citrus fruits | Insert | T0.1 | <1 | | <1 |
| Dried grapes | Insert | 0.2 | <1 | | <1 |
| Fruiting vegetables, other than | Insert | T0.1 | <1 | Eggplant | <1 |
| cucurbits | | | <1 | Peppers, Sweet | <1 |
| | | | <1 | Tomato | <1 |
| | | | <1 | | <1 |
| Grapes | Retain | T0.5 | | | |
| Pear | Omit | T0.2 | | | |
| Pome fruits | Insert | 0.2 | <1 | Apple | <1 |
| | | | <1 | Pear | <1 |
| Stone fruits | Omit | T0.5 | | | |
| Stone fruits [except cherries] | Insert | 0.1 | <1 | Apricot | <1 |
| | | _ | <1 | Nectarine | <1 |
| | | | <1 | Peach | <1 |
| | | | <1 | Plums | <1 |
| | | | 7.1 | (including | ' ' |
| | | | | • | |
| Fenhexamid | | | | prunes) | |
| | hita garm tuha alanga | tion and | NEDI. | - E0/ of ADI | |
| Fenhexamid is a fungicide. It inhi | | | NEDI - | = 5% of ADI | |
| mycelium growth. Internationally | | | | | |
| cinerea, Monilla spp. and related | | | | | |
| vegetables and ornamentals. In A | | | | | |
| bunch rot (Botrytis cinerea) on gr | | | | | |
| strawberries. Bayer CropScience | e (Bayer) has requeste | d that | | | |
| FSANZ consider incorporating th | e Codex fenhexamid I | MRL for | | | |
| kiwifruit in the Code to account for | or legitimate residues t | hat may | | | |
| occur in kiwifruit. Bayer has provi | ided information that k | iwifruit are | | | |
| imported to Australia in the off-se | | | | | |
| anomaly in the Code in relation to | | | | | |
| residues in kiwifruit and that there | | | | | |
| as a consequence. | o may be implicatione | | | | |
| as a consequence. | | | | | |
| Kiwifruit | Incort | | | | |
| | Insert | 15 | | | |
| Fenvalerate | | | | | |
| Fenvalerate Fenvalerate is a pyrethroid, non- | systemic insecticide w | ith contact | NEDI : | = 48% of ADI | |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the | systemic insecticide w e nervous system of ir | ith contact sects and | | | |
| Fenvalerate Fenvalerate is a pyrethroid, non- | systemic insecticide w e nervous system of ir | ith contact sects and | | = 48% of ADI estimated daily die | etary |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons by | systemic insecticide we nervous system of ir | ith contact sects and sodium | Mean | | - |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used | systemic insecticide we nervous system of ir by interaction with the did to control a wide range | ith contact sects and sodium ge of | Mean exposi | estimated daily die | - |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse | systemic insecticide we nervous system of ir by interaction with the d to control a wide rangets in fruits, vines, ho | ith contact sects and sodium ge of os, nuts, | Mean exposi | estimated daily die ure based on mear | - |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, to | systemic insecticide we nervous system of ir by interaction with the d to control a wide rangets in fruits, vines, ho bacco, sugar cane, orr | ith contact sects and sodium ge of os, nuts, amentals | Mean exposi analyti | estimated daily die ure based on mear cal results: | n |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, to and forestry; flying and crawling | systemic insecticide we nervous system of ir by interaction with the doto control a wide rangets in fruits, vines, ho bacco, sugar cane, orrinsects in public health | ith contact asects and sodium ge of os, nuts, amentals | Mean exposi analyti | estimated daily die ure based on mear cal results: FDS: not detected | n |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, tot and forestry; flying and crawling if animal housing situations; and as | systemic insecticide we nervous system of ir by interaction with the doto control a wide rangects in fruits, vines, ho bacco, sugar cane, orrinsects in public healths an animal ectoparasi | ith contact asects and sodium ge of os, nuts, amentals and ticide. The | Mean exposi analyti | estimated daily die ure based on mear cal results: | n |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, tot and forestry; flying and crawling if animal housing situations; and as FBIA has requested that FSANZ | systemic insecticide we nervous system of ir by interaction with the doto control a wide rangects in fruits, vines, ho bacco, sugar cane, orrinsects in public health an animal ectoparasi consider incorporating | ith contact asects and sodium ge of os, nuts, namentals and ticide. The | Mean exposision analytic 20 th Afoods | estimated daily die ure based on meal cal results: FDS: not detected sampled | n in any |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, to and forestry; flying and crawling animal housing situations; and as FBIA has requested that FSANZ Codex fenvalerate MRL for berrie | systemic insecticide we nervous system of ir by interaction with the doto control a wide rangects in fruits, vines, ho bacco, sugar cane, orrespects in public health an animal ectoparasi consider incorporating in the Code. Goji be | ith contact assects and sodium ge of os, nuts, namentals and ticide. The prices are | Mean exposis analytic 20 th A ⁻¹ foods s | estimated daily die ure based on mear cal results: FDS: not detected sampled | in any |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, to and forestry; flying and crawling in animal housing situations; and as FBIA has requested that FSANZ Codex fenvalerate MRL for berrie imported to Australia and legitima | systemic insecticide we nervous system of ir by interaction with the doto control a wide rangects in fruits, vines, ho bacco, sugar cane, orresponding the altresponding an animal ectoparasi consider incorporating in the Code. Goji be ate residues may occur | ith contact assects and sodium ge of os, nuts, namentals and ticide. The geries are r. FSANZ | Mean exposis analytic 20 th A ⁻¹ foods s | estimated daily die ure based on meal cal results: FDS: not detected sampled | in any |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, tot and forestry; flying and crawling in animal housing situations; and as FBIA has requested that FSANZ Codex fenvalerate MRL for berrie imported to Australia and legitime has noted the anomalies in the Co | systemic insecticide we nervous system of ir by interaction with the doto control a wide rangets in fruits, vines, howacco, sugar cane, orrinsects in public health an animal ectoparasiconsider incorporating in the Code. Goji be atteresidues may occur code in relation to Code | ith contact asects and sodium ge of os, nuts, namentals and ticide. The gries are r. FSANZ ex | Mean exposis analytic 20 th A ⁻¹ foods s | estimated daily die ure based on mear cal results: FDS: not detected sampled | in any |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, to and forestry; flying and crawling animal housing situations; and as FBIA has requested that FSANZ Codex fenvalerate MRL for berrie imported to Australia and legitima has noted the anomalies in the C standards for residues in berries | systemic insecticide we nervous system of ir by interaction with the d to control a wide rangets in fruits, vines, ho bacco, sugar cane, orrespects in public health an animal ectoparasiconsider incorporating in the Code. Goji be atteresidues may occur and that there may be | ith contact asects and sodium ge of os, nuts, namentals and ticide. The gries are r. FSANZ ex | Mean exposis analytic 20 th A ⁻¹ foods s | estimated daily die ure based on mear cal results: FDS: not detected sampled | in any |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, tot and forestry; flying and crawling in animal housing situations; and as FBIA has requested that FSANZ Codex fenvalerate MRL for berrie imported to Australia and legitime has noted the anomalies in the Co | systemic insecticide we nervous system of ir by interaction with the d to control a wide rangets in fruits, vines, ho bacco, sugar cane, orrespects in public health an animal ectoparasiconsider incorporating in the Code. Goji be atteresidues may occur and that there may be | ith contact asects and sodium ge of os, nuts, namentals and ticide. The gries are r. FSANZ ex | Mean exposis analytic 20 th A ⁻¹ foods s | estimated daily die ure based on mear cal results: FDS: not detected sampled | in any |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, to and forestry; flying and crawling in animal housing situations; and as FBIA has requested that FSANZ Codex fenvalerate MRL for berrie imported to Australia and legitima has noted the anomalies in the O standards for residues in berries implications for trade in goji berrie | systemic insecticide we nervous system of ir by interaction with the d to control a wide rangets in fruits, vines, ho bacco, sugar cane, orresects in public health an animal ectoparasi consider incorporating es in the Code. Goji be atteresidues may occur and that there may be es as a consequence. | ith contact isects and sodium ge of os, nuts, iamentals and ticide. The githe erries are r. FSANZ | Mean exposis analytic 20 th A ⁻¹ foods s | estimated daily die ure based on mear cal results: FDS: not detected sampled | in any |
| Fenvalerate Fenvalerate is a pyrethroid, non- and stomach action. It acts on the disrupts the function of neurons to channel. Internationally, it is used chewing, sucking and boring inse vegetables, oilseeds, cereals, to and forestry; flying and crawling a nimal housing situations; and as FBIA has requested that FSANZ Codex fenvalerate MRL for berrie imported to Australia and legitima has noted the anomalies in the C standards for residues in berries | systemic insecticide we nervous system of ir by interaction with the d to control a wide rangets in fruits, vines, ho bacco, sugar cane, orrespects in public health an animal ectoparasiconsider incorporating in the Code. Goji be atteresidues may occur and that there may be | ith contact asects and sodium ge of os, nuts, namentals and ticide. The gries are r. FSANZ ex | Mean exposis analytic 20 th A ⁻¹ foods s | estimated daily die ure based on mear cal results: FDS: not detected sampled | in any |

| Requested MRLs/ERLs express chemical per kilogram of the fo | | of the | Dietary Exposure Assessment |
|--|--|---|--------------------------------|
| Flubendiamide Flubendiamide is an insecticide. If agonist. It is used to control diamount butterfly, cluster caterpillar, heliott soybean looper in various vegetal MRL for corn is at the limit of quantitation. | ondback moth, ca nis (<i>Helicoverpa</i> sole crops. The rec | bbage white spp.), and | NEDI = 35% of ADI |
| New chemical | | | |
| Insert residue definition: | | | |
| Commodities of plant origin: Flube Commodities of animal origin: Sur N-(2-methyl-4-[1,2,2,2-tetrafluoro-(trifluoromethyl)ethyl]phenyl)phtha flubendiamide | m of flubendiamid ·1- | | |
| Brassica (cole or cabbage) vegetables, Head cabbages, Flowerhead brassicas | Insert | Т3 | |
| Common bean (pods and/or immature seeds) | Insert | T2 | |
| Lettuce, head | Insert | T5 | |
| Lettuce, leaf | Insert | T5 | |
| Peppers, Sweet | Insert | T1 | |
| Sweet corn (corn-on-the-cob) | Insert | T*0.05 | |
| Tomato | Insert | T2 | |
| Glufosinate-ammonium Glufosinate-ammonium is a non-sinhibits glutamate synthesis, leading ammonium ions and inhibition of proceeding control broadleaf and grass weed FSANZ consider incorporating Communication of the synthesis of canola and soybean in the glufosinate-ammonium MRL of 0.1 requested MRL is the applicable sand Canada. These MRLs are recorded information that these control of glufosinate-ammonium on these Canada; and that these residues and that these residues and that these residues and that these residues and standards. | ing to accumulation bhotosynthesis. It is. Bayer has required as glufosinate-active Code. Bayer riche did as a formation and the Uriche Code are impured as a result of less are in the Unit may not comply with the Code and the Code are in the Unit may not comply with the Code and the Code are in the Unit may not comply with the Code and the Code are in the Unit may not comply with the Code and the Code are in the Unit may not comply with the Code and the Code are in the Code and the Code are in the Code and the Code are in the Co | on of is used to lested that mmonium equested a e. This is mmodity. The hited States te trade. Bayer aported from egitimate use ted States and vith current | NEDI = 7% of ADI |
| Maize Rape seed | Insert Omit Substitute | 0.2 *0.05 5 | |
| Soya bean (dry) | Insert | 2 | |

| Chemical per kilogram of the food (mg/kg) Assessment Halofuginone NEDI = 14% of ADI Halofuginone belongs to the quinazolone group of chemicals, which are derivatives of the quinolone group of antimicrobials. It destroys infected lymphocytes; resulting in the release of schizonts, which are then susceptible to the defence system of the host. It is orally administered to calves aged 1 – 21 days for the prevention and treatment of scours caused by Cryptosporidium parvum. Quinolones are used in human medicine, notably nalidixic acid which is indicated for the treatment of urinary tract infections. There are alternative chemical treatments available for this purpose. FSANZ understands that halofuginone is not used in human medicine in Australia or New Zealand and is currently the only quinolone registered for use in food producing animals. The APVMA consulted with the National Health and Medical Research Council on the assessment of the proposed use pattern. The assessment included rigorous consideration of the risk of antimicrobial resistance arising from consumption of residues that may occur in edible calf tissues. The APVMA has advised that the use of halofuginone associated with the proposed MRLs is not considered to present a significant risk in the development of antimicrobial resistance in the treatment of infections in humans. The proposed MRLs are the same as the limits that apply in the European Union. NESTI as % of ARfD Cattle fat Insert 0.025 Cattle kidney Omit T*0.01 Substitute 0.03 9 29 Cattle liver Omit T*0.01 26.9 cears 2 cears C |
|---|
| Halofuginone belongs to the quinazolone group of chemicals, which are derivatives of the quinolone group of antimicrobials. It destroys infected lymphocytes; resulting in the release of schizonts, which are then susceptible to the defence system of the host. It is orally administered to calves aged 1 – 21 days for the prevention and treatment of scours caused by Cryptosporidium parvum. Quinolones are used in human medicine, notably nalidixic acid which is indicated for the treatment of urinary tract infections. There are alternative chemical treatments available for this purpose. FSANZ understands that halofuginone is not used in human medicine in Australia or New Zealand and is currently the only quinolone registered for use in food producing animals. The APVMA consulted with the National Health and Medical Research Council on the assessment of the proposed use pattern. The assessment included rigorous consideration of the risk of antimicrobial resistance arising from consumption of residues that may occur in edible calf tissues. The APVMA has advised that the use of halofuginone associated with the proposed MRLs is not considered to present a significant risk in the development of antimicrobial resistance in the treatment of infections in humans. The proposed MRLs are the same as the limits that apply in the European Union. Cattle fat Insert 0.025 |
| Cattle fat Insert 0.025 2 2 Cattle kidney Omit T*0.01 Substitute 0.03 9 29 Cattle liver Omit T*0.01 Substitute 0.03 9 29 Cattle meat Omit T*0.01 Cattle muscle Insert 0.01 42 23 Indoxacarb Indoxacarb Indoxacarb is an insecticide. It is active by contact and ingestion. It blocks sodium ion channels in nerve cells causing cessation of |
| Cattle fat Insert 0.025 2 2 Cattle kidney Omit T*0.01 Substitute 0.03 9 29 Cattle liver Omit T*0.01 Substitute 0.03 9 29 Cattle meat Omit T*0.01 Cattle muscle Insert 0.01 42 23 Indoxacarb Indoxacarb is an insecticide. It is active by contact and ingestion. It blocks sodium ion channels in nerve cells causing cessation of |
| Cattle kidney Omit Substitute 0.03 9 29 Cattle liver Omit T*0.01 Substitute 0.03 9 29 Cattle meat Omit T*0.01 T*0.01 Substitute 0.03 9 29 Cattle meat Omit T*0.01 Cattle muscle Insert 0.01 42 23 Indoxacarb Indoxacarb Indoxacarb is an insecticide. It is active by contact and ingestion. It blocks sodium ion channels in nerve cells causing cessation of |
| Cattle liver Omit Substitute 0.03 9 29 Cattle meat Omit T*0.01 Cattle muscle Insert 0.01 42 23 Indoxacarb Indoxacarb is an insecticide. It is active by contact and ingestion. It blocks sodium ion channels in nerve cells causing cessation of |
| Cattle meat Omit T*0.01 Cattle muscle Insert 0.01 42 23 Indoxacarb Indoxacarb is an insecticide. It is active by contact and ingestion. It blocks sodium ion channels in nerve cells causing cessation of |
| Cattle muscleInsert0.014223IndoxacarbIndoxacarb is an insecticide. It is active by contact and ingestion.NEDI = 15% of ADIIt blocks sodium ion channels in nerve cells causing cessation of |
| Indoxacarb Indoxacarb is an insecticide. It is active by contact and ingestion. It blocks sodium ion channels in nerve cells causing cessation of |
| Indoxacarb is an insecticide. It is active by contact and ingestion. It blocks sodium ion channels in nerve cells causing cessation of |
| used to control Lepidoptera in cotton, fruit and vegetables. The APVMA has issued permits for its use to control helithis, light brown apple moth, lucerne leaf roller and vegetable weevil on celery and light brown apple moth on field grown berries. NESTI as % of ARfD |
| Berries and other small fruits Insert T1 21 12 |
| Berries and other small fruits Insert T1 21 12 [except grapes] |
| Celery Insert T5 24 Celery 7 |
| 27 Celery, raw 8 Strawberry Omit T1 21 12 |

| Requested MRLs/ERLs expressed in milligrams of the chemical per kilogram of the food (mg/kg) | | | Dietary Exposure Assessment |
|--|--------------------|--------|---|
| Isoxaflutole Isoxaflutole is a systemic herbicide. It is a p-hydroxyphenyl pyruvate dioxygenase inhibitor. This enzyme converts p-hydroxyphenyl pyruvate to homogentisate, a key step in plastoquinone biosynthesis, giving rise to chlorosis of new growth. It is used for pre- and post-emergent control of grasses and broadleaf weeds in chickpeas and sugar cane. The APVMA has advised that residues data are sufficient to establish MRLs in place of the TMRLs. The data indicate that residues did not concentrate in processed commodities. Animal commodity MRLs are recommended as treated produce may be used as stock feed. The permit for use of isoxaflutole in cereal grains has expired. | | | NEDI = 3% of ADI |
| Note: The requested chickpea, sugar cane and mammalian commodity MRLs were gazetted by the APVMA in July 2001 and consulted on in January 2002 in Application A450. The MRLs were not subsequently gazetted in the Code in error. | | | |
| Cereal grains | Omit | T*0.05 | |
| Chick-pea (dry) | Omit | T*0.03 | |
| The production of the producti | Substitute | *0.03 | |
| Edible offal (mammalian) | Omit | T*0.05 | |
| , | Substitute | *0.05 | |
| Eggs | Omit | T*0.05 | |
| | Substitute | *0.05 | |
| Meat (mammalian) | Omit | T*0.05 | |
| | Substitute | *0.05 | |
| Milks | Omit | T*0.05 | |
| | Substitute | *0.05 | |
| Poultry, edible offal of | Omit | T*0.05 | |
| | Substitute | *0.05 | |
| Poultry meat | Omit | T*0.05 | |
| | Substitute Omit | *0.05 | |
| Sugar cane | T*0.01 | | |
| Substitute *0.01 Lambda-cyhalothrin | | | NEDI 50% (AD) |
| Lambda-cyhalothrin is a synthetic pyrethroid insecticide. It is a | | | NEDI = 58% of ADI |
| sodium channel modulator. It causes excessive stimulation of neurons by preventing the closure of voltage sensitive sodium | | | This is equivalent to 3% of the |
| channels. It is used to control a wide spectrum of insect pests in | | | This is equivalent to 3% of the cyhalothrin ADI |
| cereal, fruit and vegetable crops. The APVMA has issued a | | | |
| permit for its use to control thrips, mites and onion maggot on | | | |
| garlic. The recommended MRL is at the LOQ. | | | |
| Note: MRLs for lambda-cyhalothrin are listed under cyhalothrin | | | |
| Garlic Insert *0.05 | | | |

| Requested MRLs/ERLs expressed in milligrams of the chemical per kilogram of the food (mg/kg) | | | Dietary Exposure Assessment |
|---|------------------------------|---------------|--|
| Linuron Linuron is a herbicide. It inhibits electron transport in photosystem II. It is used to control annual grasses and broad leaf weeds in vegetable crops. The APVMA has issued a permit for its use to control weeds in celeriac. | | | NEDI = 15% of ADI |
| Celeriac Vegetables [except celery and leek] | Insert Omit | T0.5 *0.05 | |
| Vegetables [except celeriac; celery; leek] | Insert | *0.05 | |
| Maldison This is a minor technical amendment to ensure consistent use of the commodity name for black currants. | | | Dietary exposure assessment not required. |
| Amendment to commodity name Omit: Currants, black | | | |
| Substitute: Currant, black Mancozeb | | | |
| Mancozeb is a fungicide. It is in the dithiocarbamate group of chemicals. It interferes with various enzymes involved in the | | | NEDI = 95 % of the mancozeb ADI |
| respiration process, thereby inhibiting spore generation and mycelial growth. It is used to control many fungal diseases in a wide range of field crops. The APVMA has issued a permit for its use to control quarantine pests on nursery stocks of culinary herbs and leafy vegetables entering Western Australia from other states. A conservative temporary MRL has been recommended | | | 19 th ATDS – 63% of the thiram ADI for toddlers of 2 years and 20% – 29% of this ADI for other population groups assessed. |
| for herbs in line with the mancozeb MRL for leafy vegetables which may be treated at similar rates. Residues in herbs are expected to be substantially lower than the MRL as it will be 8 – | | | This protectively overestimates exposure as thiram has the lowest ADI of the chemicals in |
| 10 weeks between treatment and harvest. The APVMA has also issued a permit for its use to control lychee pepper spot (<i>Colletotrichum gloeosporoides</i>) on lychees. The APVMA has advised that the residues data provided are sufficient to establish the recommended MRL in place of the temporary MRL. The commodity name 'Litchi' is used for lychees in the Code in line with the Codex classification of foods and animal feeds. | | | the dithiocarbamate group and some of the chemical residues measured will have come from other dithiocarbamates and natural compounds in onions and brassicas. |
| Note: MRLs for mancozeb are listed under dithiocarbamates | | | Foods were analysed for dithiocarbamates residues in the 23 rd ATDS. The data are currently being examined. |
| Herbs [except parsley] Litchi | Insert Omit Substitute | T5 T5 5 | The APVMA has listed the dithiocarbamates group for review. |

| Requested MRLs/ERLs expressed in milligrams of the | | | Dietary Exposure | |
|--|------------------------|--------------|--|------------|
| chemical per kilogram of the food (mg/kg) Methomyl | | | Assessment | |
| Methomyl is a carbamate insecticid | NEDI = 84% of ADI | | | |
| and stomach action. It is a cholinesterase inhibitor. It is used to control a wide range of pests on fruits, vines, vegetables and field | | | 19 th ATDS: not detected in any foods sampled | |
| crops. The APVMA has issued permits for its use to control heliothis (<i>Helicoverpa</i> spp.), loopers and webworm on beetroot; | | | loods sampled | |
| cabbage white butterfly, cabbage c | | | * The NESTIs indica | ted were |
| and cluster caterpillar on radish, sw | | | calculated using con | |
| flower thrips on spring onion, shallo | | | data for all bulb vege | |
| APVMA has advised that the residu | | | consumption data fo | |
| sufficient to establish the recomme | | | relevant food were n | |
| the temporary MRL. The APVMA a | | shallot | for that population g | roup. |
| and Welsh onion MRLs in May 200 | 9. | | NESTI as % of ARfD |) |
| | | | | 2+ years |
| Beetroot | Omit | T1 | <u>= 0 </u> | |
| | Substitute | 1 | 21 | 7 |
| Onion, Welsh | Insert | 1 | 58* *Bulb | 20* |
| Dadiah | lmaant | ⊤ ₄ | vegetable | |
| Radish Shallot | Insert Insert | T1 1 | 8 58* | 8 3 |
| Spring onion | Insert | 1 | 58* | 5 5 |
| Swede | Insert | T1 | 24 | 30 |
| Turnip, garden | Insert | T1 | 24 | 14 |
| Metribuzin | | | | |
| Metribuzin is a selective systemic h | | | NEDI = 5% of ADI | |
| photosynthetic electron transport in | | | | |
| receptor site of weeds. It is used for | | | | |
| control of many grass and broad leaf weeds in cereal, sugar cane and vegetable crops. The APVMA has approved an extension of | | | | |
| use of metribuzin to control weeds | | | | |
| recommended MRL for sugar cane | | | | |
| · | | | NESTI as % of ARfD | |
| 0 | Oit | 0.4 | <u>2-6 years</u> | 2+ years |
| Sugar cane | Omit Substitute | 0.1 *0.02 | <1 Sugar from | all <1 |
| Sugar cane molasses | Insert | 0.02 | sources | all \1 |
| Phosphorous acid | | 0.1 | 3001003 | |
| Phosphorous acid is a selective sys | stemic phosphonate fun | gicide | NEDI = 7% of ADI | |
| with multi site activity. It is used to control fungal diseases on | | | | |
| fruits and vegetables. The APVMA has issued a permit for its use | | | | |
| to control root rot (Phytophthora cir | | | | |
| Assorted tropical and subtropical | Omit | T100 | | |
| fruits –inedible peel | Onn | 1 100 | | |
| Assorted tropical and sub-tropical | Insert | T100 | | |
| fruits – inedible peel [except | | | | |
| avocado] | | | | |
| Avocado | Insert | T500 | | |
| Pirimicarb Pirimicarb is an anticholinostorase insecticide. It is selective and | | | NEDI - 95% of ADI | |
| Pirimicarb is an anticholinesterase insecticide. It is selective and systemic and has contact, stomach and respiratory action. It is | | | NEDI = 85% of ADI | |
| used to control certain aphids on crops and pastures. The | | | Mean estimated dail | v dietarv |
| APVMA has issued a permit for its use to control soybean aphid | | | exposure based on r | |
| on soya beans. | | | analytical results: | |
| | | | 20 th ATDS: <1% of A | DI for all |

| Requested MRLs/ERLs expresse | ed in milligrams of the | | Dietary Exposure | |
|--|--|--------|-------------------------------|---------------------------------|
| chemical per kilogram of the foo | | | Assessment | |
| Soya bean (dry) | Insert | T0.5 | population groups a | ssessed |
| Vegetables [except as otherwise | Omit | 1 | hahamam 2. aaba a | |
| listed under this chemical] | | - | 19 th ATDS: <1% of | ADI for all |
| Vegetables [except leafy | | | population groups a | |
| vegetables; lupin (dry); soya bean | Insert | 1 | 7 - 1 - 1 - 1 | |
| (dry)] | | • | | |
| Prochloraz | | | | |
| Prochloraz is a pyrazole fungicide. | It inhibits steroid | | NEDI = 32% of ADI | |
| demethylation (ergosterol biosynth | | ectant | | |
| and eradicant fungicide against a v | | | | |
| affecting field, fruit and vegetable of | crops. The APVMA has is | sued | | |
| a permit for its use to control anthro | | | | |
| | | | NESTI as % of ARf | D |
| | | | 2-6 years | 2+ years |
| Mandarins | Insert | T10 | 35 | 10 |
| Profoxydim | | | | |
| Profoxydim is a herbicide. It is a fa | tty acid synthesis inhibito | r. it | NEDI = <1% of ADI | |
| inhibits acetyl CoA carboxylase (A | | | ,,,,,,,,, | |
| throughout the plant and to the me | | | | |
| growing, followed by yellowing or r | | | | |
| is used for post-emergence control | | | | |
| grasses in rice crops. The APVMA | | | | |
| residues are unlikely to occur in ric | | | | |
| recommended for animal commod | | e fed | | |
| to animals. The recommended MR | | | | |
| poultry offal are at the LOQ. | o .o. oggo, mod.o, m | ana | | |
| pountry onar are at the Log. | | | | |
| New chemical | | | | |
| Insert residue definition: | | | | |
| Sum of profoxydim and all metabol | lites converted to dimoth | /l_3_ | | |
| | | | | |
| (3-thianyl)glutarate-S-dioxide after oxidation and treatment with acidic methanol, expressed as profoxydim | | | | |
| acidic methanor, expressed as pro | ioxyuiiii | | | |
| Edible offal (mammalian) | Insert | 0.5 | | |
| Eggs | Insert | *0.05 | | |
| Meat (mammalian) | Insert | *0.05 | | |
| Milks | Insert | *0.01 | | |
| Poultry, edible offal of | Insert | *0.05 | | |
| Poultry meat | Insert | *0.05 | | |
| Rice | Insert | 0.05 | | |
| Propachlor | | 3.50 | | |
| Propachlor is a selective chloroace | etamide herbicide. It is | | Dietary exposure as | ssessment |
| | absorbed by seedling shoots with secondary translocation | | | · · · · · · · · · · · · · · · · |
| throughout the plant. It is used to control grass and broadleaf | | | not required. | |
| weeds in cereal and vegetable cro | | | | |
| Amendment to residue definition | | | | |
| Omit: Propachlor | | | | |
| Substitute: Sum of propachlor and isopropylaniline, expressed as pro | | to N- | | |

| Requested MRLs/ERLs expressed in milligrams of the chemical per kilogram of the food (mg/kg) | | | Dietary Exposure Assessment |
|---|----------------------------|-------------------------|---|
| Pymetrozine Pymetrozine is an azomethine insecticide. It is selective against Homoptera, causing them to stop feeding. It is used to control juvenile and adult stages of aphids and whitefly in vegetables, fruit and cotton. The APVMA has renewed a permit for its use to control green peach aphid (<i>Myzus persicae</i>) on almonds. Residue data support the recommended MRL at the LOQ. | | | NEDI = 20% of ADI |
| Almonds | Omit Substitute | T*0.02 T*0.01 | |
| Pyraclostrobin Pyraclostrobin is a fungicide. It inhibits mitochondrial respiration by blocking electron transfer at the cytochrome bc1 complex. It is used to control plant pathogens in fruit and vegetable crops. It is used to control black spot, powdery mildew and Alternaria in apples. The APVMA has issued a permit for its use to control powdery mildew on sunflowers. | | | NEDI = <1% of ADI |
| , | | | NESTI as % of ARfD 2-6 years 2+ years |
| Apple Sunflower seed | Insert Insert | 1 T0.3 | 78 19 <1 <1 |
| Pyroxsulam Pyroxsulam is a herbicide. It in acetolactate synthase (ALS). I broadleaf weeds in wheat. The LOQ. | NEDI = <1% of ADI | | |
| New chemical | | | |
| Insert residue definition: | | | |
| Pyroxsulam | | | |
| Edible offal (mammalian) Eggs Meat (mammalian) | Insert Insert Insert | *0.01 *0.01 *0.01 | |
| Milks | Insert | *0.01 *0.01 | |
| Poultry, edible offal of Poultry meat Wheat | Insert Insert Insert | *0.01 *0.01 *0.01 | |

Requested MRLs/ERLs expressed in milligrams of the chemical per kilogram of the food (mg/kg)

Sulphur dioxide

Sulphur dioxide is a non systemic protective fungicide and acaricide with contact and vapour action. It is used to control powdery mildews on fruit and mites on a range of crops. The APVMA has renewed permits for its use to control *Botrytis cinerea* on blueberries; and post-harvest rots and to prevent skin browning on longans. The APVMA has established an MRL of 150 mg/kg for sulphur dioxide in whole longans. The current limit in the Code for sulphur dioxide residues in longans is 10 mg/kg. The APVMA has advised that residues data indicate that following application at the maximum rate, residues in the edible portion of the fruit will be below 10 mg/kg. For clarity, a qualification that the longan limit applies to the edible portion; and a cross reference in Standard 1.4.2 to Standard 1.3.1 is proposed.

Note: Residue limits for sulphur dioxide are listed in Standard 1.3.1. Limits in Standard 1.3.1 are known as maximum permitted levels (MPLs).

Standard 1.3.1

Schedule 1 Permitted uses of food additives by food type, 4.1 Unprocessed fruits and vegetables:

Insert: blueberries

INS number: 220 221 222 223 224 225 228

Additive name: Sulphur dioxide and sodium and potassium

sulphites

Maximum Permitted Level: 10 mg/kg

Retain longan MPL of 10 mg/kg

Insert the following qualification in relation to the longan entry:

edible aril only, that is, the edible portion of the fruit

Standard 1.4.2

New entry

Insert chemical name and cross reference to Standard 1.3.1:

Sulphur dioxide see Standard 1.3.1

Dietary Exposure Assessment

Mean estimated daily dietary exposure based on mean analytical results:

21st ATDS: ≤ 80% of the ADI for all population groups assessed.

The 21st ATDS indicated that sulphite intakes may exceed the ADI for some population groups. FSANZ has raised a proposal to address this.

Extending the permissions for addition of sulphur dioxide set out in the Code to blueberries may increase the population exposure to sulphur dioxide to a small extent. It should be noted that the dietary exposure to sulphur dioxide from blueberries and longans is likely to be minor compared to exposure from other dietary contributors. Thus any increase in sulphur dioxide exposure from consumption of these foods is not of concern.

| Requested MRLs/ERLs expressed in milligrams of the chemical per kilogram of the food (mg/kg) | | Dietary Exposure Assessment | |
|--|---|---|------------------|
| Trinexapac-ethyl Trinexapac-ethyl is a plant gro elongation disruptor. It is used sugar yield and prevent lodgin APVMA has issued a permit fo previously proposed under pro The APVMA has advised that processed commodities was o | to increase seed set, a g and stem elongation. or its use at a higher rate oduct registration for sug no accumulation of resi | Ilkaloid and The e than gar cane. dues in | NEDI = 2% of ADI |
| Sugar cane | Omit Substitute | 0.1 T0.2 | |

Safety Assessment Methodology

1.1 Determining the Residues of a Chemical in a Treated Food

The APVMA assesses a range of data when considering the proposed use of a chemical product on a food. These data enable the APVMA to determine what the likely residues of a chemical will be on a treated food. These data also enable the APVMA to determine what the maximum residues will be on a treated food if the chemical product is used as proposed and from this, the APVMA determines an MRL.

The MRL is the maximum level of a chemical that may be in a food and it is not the level that is usually present in a treated food. However, incorporating the MRL into food legislation means that the residues of a chemical are minimised (i.e. must not exceed the MRL), irrespective of whether the dietary exposure assessment indicates that higher residues would not risk public health and safety.

1.2 Determining the Acceptable Reference Health Standard for a Chemical in Food

The Office of Chemical Safety (OCS) assesses the toxicology of agricultural and veterinary chemicals and establishes the acceptable daily intake (ADI) and where appropriate, the acute reference dose (ARfD) for a chemical. In the case that an Australian ADI or ARfD has not been established, a Joint Food and Agriculture Organization / World Health Organization Meeting on Pesticide Residues (JMPR) ADI or ARfD may be used for risk assessment purposes if the OCS advises this is appropriate.

Both the APVMA and FSANZ use these reference health standards in dietary exposure assessments.

The ADI is the daily intake of an agricultural or veterinary chemical, which, during the consumer's entire lifetime, appears to be without appreciable risk to the health of the consumer. This is on the basis of all the known facts at the time of the evaluation of the chemical. It is expressed in milligrams of the chemical per kilogram of body weight.

The ARfD of a chemical is the estimate of the amount of a substance in food, expressed on a body weight basis that can be ingested over a short period of time, usually during one meal or one day, without appreciable health risk to the consumer, on the basis of all the known facts at the time of evaluation.

1.3 Calculating Dietary Exposure

The APVMA and FSANZ undertake chronic dietary exposure assessments for all agricultural and veterinary chemicals and undertake acute dietary exposure assessments where either the OCS or JMPR has established an ARfD.

The APVMA and FSANZ have agreed that all dietary exposure assessments for agricultural and veterinary chemicals undertaken by the APVMA will be based on food consumption data for raw commodities, derived from individual dietary records from the latest National Nutrition Survey (NNS) and chemical residue data provided by the APVMA or FSANZ. The Australian Bureau of Statistics with the then Australian Government Department of Health and Aged Care undertook the latest NNS over a 13-month period (1995 to early 1996).

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The sample of 13,858 respondents aged 2 years and older was a representative sample of the Australian population and, as such, a diversity of food consumption patterns was reported.

1.3.1 Chronic Dietary Exposure Assessment

The National Estimated Daily Intake (NEDI) represents an estimate of chronic dietary exposure. Chemical residue data, as opposed to the MRL, are the preferred concentration data to use if they are available, as they provide a more realistic estimate of dietary exposure. The NEDI calculation may incorporate more specific data including food consumption data for particular sub-groups of the population. The NEDI calculation may take into account such factors as the proportion of the crop or commodity treated; residues in edible portions and the effects of processing and cooking on residue levels; and may use median residue levels from supervised trials rather than the MRL to represent pesticide residue levels. Monitoring and surveillance data or data from total diet studies may also be used, such as the 19th and 20th Australian Total Diet Surveys (ATDS).

FSANZ is currently undertaking the 23rd ATDS (now the Australian Total Diet Study). The study will analyse the levels of various agricultural and veterinary chemicals in food and estimate the potential dietary exposure of population groups in Australia to those chemicals.

In conducting chronic dietary exposure assessments, the APVMA and FSANZ consider the residues in foods that could result from the permitted uses of a chemical product. Where data are not available on the specific residues in a food then a cautious approach is taken and the MRL is used. The use of the MRL in dietary exposure estimates may result in considerable overestimates of exposure because it assumes that the 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 that the entire national crop contains residues equivalent to the MRL. In agriculture and animal husbandry this is not the case, but for the purposes of undertaking a risk assessment, it is important to be conservative in the absence of reliable data to refine the dietary exposure estimates further. In reality, only a portion of a specific crop is treated with a pesticide; most treated crops contain residues well below the MRL at harvest; and 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 over the lifetime of consumers.

The residues that are likely to occur in all foods are multiplied by the mean daily consumption of these foods derived from individual dietary records from the latest NNS for all survey respondents regardless of whether they consumed the food or not. These calculations provide information on the level of a chemical that is consumed for each food and take into account the consumption of processed foods e.g. apple pie and bread. The estimated exposure for each food is added together to provide the total mean dietary exposure to a chemical from all foods with MRLs.

The estimated mean dietary exposure is then divided by the average Australian's bodyweight to provide the amount of chemical consumed per day per kg of human bodyweight.

1.3.2 Acute Dietary Exposure Assessment

The National Estimated Short Term Intake (NESTI) is used to estimate acute dietary exposure. Acute (short term) dietary exposure assessments are undertaken where the OCS has determined an ARfD for a chemical or advised that a JMPR ARfD is appropriate.

Acute dietary exposures are normally only estimated for raw unprocessed commodities (fruit and vegetables) but may include consideration of meat, offal, cereal, milk or dairy product consumption on a case-by-case basis.

The NESTI is calculated in a similar way to the chronic dietary exposure. Generally, the residues of a chemical in a specific food are multiplied by the 97.5th percentile food consumption of that food based on consumers only, if appropriate the exposure is divided by a mean body weight for the population group being assessed and this result is compared to the ARfD. The exact equations for calculating the NESTIs differ depending on the type or size of the commodity. These equations are set and used internationally. NESTIs are calculated from ARfDs set by the OCS or JMPR, consumption data from the 1995 NNS and the MRL when the data on the actual residues in foods are not available.

The NESTI calculation incorporates the large portion (97.5 percentile) food consumption data and can take into account such factors as the highest residue on a composite sample of an edible portion; the supervised trials median residue (STMR), representing typical residue in an edible portion resulting from the maximum permitted pesticide use pattern; processing factors which affect changes from the raw commodity to the consumed food and the variability factor where appropriate.

1.3.3 Risk Characterisation

The estimated mean chronic dietary exposure is compared to the ADI to characterise risk to the Australian population. FSANZ considers that the chronic and acute dietary exposure to the residues of a chemical is acceptable where the best estimates of mean chronic and acute dietary exposure do not exceed the ADI or ARfD.

Background Information

1.1 Maximum Residue Limits

The MRL is the highest concentration of a chemical residue that is legally permitted or accepted in a food. The MRL does not indicate the amount of chemical that is always present in a treated food but it does indicate the highest residue that could possibly result from the registered conditions of use. The concentration is expressed in milligrams of the chemical per kilogram (mg/kg) of the food.

MRLs in the Code apply in relation to the sale of food under State and Territory food legislation and the inspection of imported foods by the Australian Quarantine and Inspection Service. MRLs assist in indicating whether an agricultural or veterinary chemical product has been used according to its registered use and if the MRL is exceeded then this indicates a likely misuse of the chemical product. MRLs are also used as standards for international trade in food. In addition, MRLs, while not direct public health limits, act to protect public health and safety by minimising residues in food consistent with the effective control of pests and diseases.

Some of the proposed MRLs in this Proposal are at the limit of quantification (LOQ) and are indicated by an * in front of the MRL. The LOQ is the lowest concentration of an agricultural or veterinary chemical residue that can be identified and quantitatively measured in a specified food, agricultural commodity or animal feed with an acceptable degree of certainty by a regulatory method of analysis. MRLs at the LOQ mean that no detectable residues of the relevant chemical should occur. FSANZ incorporates MRLs at the LOQ in the Code to assist in identifying a practical benchmark for enforcement. Future developments in methods of detection may lead to lowering these limits.

Some of the proposed MRLs in this Application are temporary and are indicated by a 'T' in front of the MRL. These MRLs may include uses associated with the APVMA minor use program; off-label permits for minor and emergency uses; or trial permits for research.

FSANZ does not issue permits or grant permission for the temporary use of agricultural and veterinary chemicals. Further information on permits for the use of agricultural and veterinary chemicals can be found on the APVMA website at www.apvma.gov.au or by contacting the APVMA on +61 2 6210 4700.

1.2 Use of Agricultural and Veterinary Chemicals

In Australia, the APVMA is responsible for assessing and registering agricultural and veterinary chemical products, and regulating them up to the point of sale. Following the sale of such products, the use of the chemicals is regulated by State and Territory 'control of use' legislation.

Before registering a product, the APVMA independently evaluates its safety and performance, making sure that the health and safety of consumers, those handling or applying the chemical, animals, crops and the environment are protected. This evaluation includes a dietary exposure assessment where appropriate. When a chemical product is registered for use or a permit for use approved, the APVMA includes MRLs in The MRL Standard.

MRLs assist States and Territories in regulating the use of agricultural and veterinary chemicals.

1.3 Maximum Residue Limit Notifications and Submissions

After registering agricultural or veterinary chemical products or conducting a review based on scientific evaluations, the APVMA notifies FSANZ to incorporate the MRL variations in Standard 1.4.2 of the Code.

Appropriate toxicology, residue, animal transfer, processing and metabolism studies are provided to the APVMA in accordance with *The Manual of Requirements and Guidelines – MORAG – for Agricultural and Veterinary Chemicals 1 July 2005* to support the requested MRLs.

Reports for individual chemicals are available on request from the relevant Project Coordinator at FSANZ on +61 2 6271 2222.

FSANZ is committed to ensuring that the implications of MRL variations are considered. Under the current process for considering variations to the Code, FSANZ encourages submissions including specific data demonstrating a need for certain MRLs to be retained or varied. FSANZ will consider retaining MRLs proposed for deletion or reduction where these MRLs are necessary to continue to allow the sale of safe food; and where the MRLs are supported by adequate data or information demonstrating that the residues associated with these MRLs do not raise any public health or safety concerns. Further information on data requirements may be obtained from FSANZ.

The processes of FSANZ are open to public scrutiny, and any submissions received will ordinarily be placed on the public register of FSANZ and made available for inspection.

FSANZ may also consider varying limits for residues of agricultural or veterinary chemicals in food in a Proposal where interested parties have identified anomalies between the Code and international standards that may result in adverse impacts. FSANZ must have regard to its WTO obligations, the promotion of consistency between domestic and international food standards; and the promotion of fair trading in food. These matters encompass a consideration of international standards and trade issues. The assessment gives careful consideration to public health and safety and includes public consultation.

FSANZ reviews the information provided and validates whether the estimated dietary exposure is within appropriate safety limits. If satisfied that the residues are within safety limits and subject to adequate resolution of any issues raised during public consultation, FSANZ will agree to incorporate the proposed limits in the Code.

FSANZ notifies the Ministerial Council when variations to the Code are approved. If the Ministerial Council does not request a review of the draft variations, the changes are gazetted and automatically adopted by reference into the food laws of the Australian States and Territories.

1.4 Antibiotics

Applicants seeking to register antibiotics for veterinary uses are required to provide suitable data to the Office of Chemical Safety to permit establishment of an ADI based on a microbiological endpoint as well as a toxicological one. The ADI is based on whichever is the most sensitive. This ensures that any antibiotic residues which may be present in food will not facilitate the development of antibiotic resistance in the microflora of the colon when ingested.

The National Health and Medical Research Council (NHMRC), with reference to the former Expert Advisory Group on Antimicrobial Resistance (EAGAR), has developed the principles by which government and regulatory agencies conduct assessments on antimicrobial resistance issues and measures designed to reduce the risk of antimicrobial resistance developing.

As part of its registration and chemical review processes, the APVMA conducts rigorous risk assessments for new antibiotics and extensions of indications, applying the NHMRC/EAGAR principles, to determine the likely impact on the efficacy of antibiotics that are essential for human therapeutics. If the risk of antimicrobial resistance associated with a proposed use pattern can not be adequately managed, the APVMA will not grant registration for that use pattern.

The APVMA consults with the NHMRC and other independent experts on risk assessments for antibiotics. Formerly the NHMRC provided advice on antimicrobial resistance issues via EAGAR. EAGAR's term of appointment expired on 31 December 2007 and the Committee has not been reappointed. Currently the NHMRC draws on members of its Expert Panel on Health Advice in regard to provision of advice to agencies on antimicrobial resistance.

1.5 Australia and New Zealand Joint Food Standards

The Agreement between the Government of Australia and the Government of New Zealand concerning a Joint Food Standards System (the Treaty), excludes MRLs for agricultural and veterinary chemicals in food from the system setting joint food standards. Australia and New Zealand independently and separately develop MRLs for agricultural and veterinary chemicals in food.

The Trans Tasman Mutual Recognition Arrangement (TTMRA) between Australia and New Zealand commenced on 1 May 1998. The following provisions apply under the TTMRA.

- Food produced or imported into Australia that complies with Standard 1.4.2 of the Code can be legally sold in New Zealand.
- Food produced or imported into New Zealand that complies with the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards 2008 (and amendments) can be legally sold in Australia.