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FINAL ASSESSMENT REPORT

APPLICATION A590

MAXIMUM RESIDUE LIMITS AVOPARCIN AND OXOLINIC ACID (ANTIBIOTICS)

For Information on matters relating to this Assessment Report or the assessment process generally, please refer to http://www.foodstandards.gov.au/standardsdevelopment/

Executive Summary

Application A590 seeks to amend Maximum Residue Limits (MRLs) for veterinary chemicals in Standard 1.4.2 – Maximum Residue Limits of the *Australia New Zealand Food Standards Code* (the Code) by deleting all entries for avoparcin and oxolinic acid. It is a routine Application from the Australian Pesticides and Veterinary Medicines Authority (APVMA), to update the Code in order to reflect the status of two antibiotic veterinary chemicals currently not registered or permitted for use in Australia. The APVMA confirms that there are no currently registered or permitted uses for these antibiotics in food producing animal species in Australia and accordingly MRLs are not required.

Food Standards Australia New Zealand's (FSANZ) 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. As the variation under consideration is deleting all entries for the antibiotics avoparcin and oxolinic acid from Standard 1.4.2, conducting dietary exposure assessments is not required. FSANZ considers that the application raises no safety concerns from a dietary exposure or microbiological perspective.

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 decided, pursuant to section 36 of the *Food Standards Australia New Zealand Act* 1991 (FSANZ Act), not to invite public submissions in relation to the Application prior to making a Draft Assessment. In making this decision, FSANZ was satisfied that the Application raised issues of minor significance or complexity only.

Purpose

The purpose of this Application is to update the Code by deleting MRLs for two veterinary chemicals not currently registered or permitted for use in Australia. As there are no approved uses for avoparcin or oxolinic acid, it is proposed the MRLs for these antibiotics be deleted. This will remove discrepancies between agricultural and food standards.

Decision

FSANZ has made an assessment and recommends approving the proposed draft variation to Standard 1.4.2 – Maximum Residue Limits to remove all entries for avoparcin and oxolinic acid.

Reasons for Decision

FSANZ recommends approving the proposed draft variation to Standard 1.4.2 for the following reasons:

- FSANZ does not consider it appropriate to retain MRLs in the Code for specific food/chemical combinations where these residues are unlikely to occur in food. This approach ensures that the dietary exposure assessment is as accurate as possible for the chemical concerned. This approach also ensures openness and transparency in relation to the residues that could reasonably occur in food.
- The proposed deletion of all MRLs for avoparcin and oxolinic acid poses no adverse consequences to human health.
- The proposed draft variation would remove discrepancies between agricultural and food standards and provide certainty and consistency for growers and producers of domestic and export food commodities, importers and Australian, State and Territory enforcement agencies.
- FSANZ has undertaken a regulation impact assessment and concluded that the proposed draft variation is necessary and cost-effective.
- The proposed changes are consistent with the section 18 objectives in the FSANZ Act.

Consultation

FSANZ has now completed the assessment of Application A590 and held a single round of public consultation under section 36 of the FSANZ Act. This Final Assessment Report and its recommendations have been approved by the FSANZ Board and notified to the Australia and New Zealand Food Regulation Ministerial Council (Ministerial Council). If the Ministerial Council does not request FSANZ review the draft amendment to the Code, an amendment to the Code is published in Australia in the *Food Standards Gazette* and in New Zealand as part of the *New Zealand Gazette* and adopted by reference and without amendment under Australian State and Territory food law.

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INTRODUCTION

This Application was received from the Australian Pesticides and Veterinary Medicines Authority (APVMA) on 6 October 2006 seeking to vary the *Australia New Zealand Food Standards Code* (the Code). The proposed variation to Standard 1.4.2 – Maximum Residue Limits would remove all Maximum Residue Limits (MRLs) for the antibiotics avoparcin and oxolinic acid from the Code. These MRLs have been deleted from the APVMA MRL Standard. As there are no currently registered or permitted uses for these antibiotics in food producing animal species in Australia, MRLs are not required.

Food Standards Australia New Zealand's (FSANZ) 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.

FSANZ will not agree to adopt MRLs into the Code where dietary exposure to residues of a chemical presents a risk to public health and safety. In assessing this risk, FSANZ reviews dietary exposure assessments in accordance with internationally accepted practices and procedures. As the variation under consideration is deleting all entries for the antibiotics avoparcin and oxolinic acid from Standard 1.4.2, conducting dietary exposure assessments is not required. FSANZ considers that the Application raises no safety concerns from a dietary exposure perspective.

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.

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 are 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.

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.

The MRLs proposed for deletion in this Application are at the limit of quantification (LOQ); this is indicated by an * in front of the MRL. MRLs at the LOQ mean that no detectable residues of the relevant chemical should occur. 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. FSANZ incorporates MRLs at the LOQ in the Code to assist in identifying a practical benchmark for enforcement and to allow for future developments in methods of detection that could lead to a lowering of this limit.

1. Background

1.1 Current Standard

The APVMA has advised that there are no registered or permitted uses for veterinary chemical products containing the antibiotics avoparcin or oxolinic acid in food producing species in Australia and has made amendments to the APVMA MRL Standard accordingly. Consequently there are discrepancies between the APVMA MRL Standard and Standard 1.4.2 of the Code.

Currently there are MRLs at the LOQ for avoparcin in edible offal (mammalian); meat (mammalian); milks; poultry, edible offal of and poultry meat and for oxolinic acid in Pacific salmon in Standard 1.4.2.

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 sale of such products, 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 people, animals and the environment are protected.

When a chemical product is registered for use or a permit for use granted, the APVMA includes MRLs in the APVMA MRL Standard. These MRLs are then adopted into control of use legislation in some jurisdictions and assist States and Territories in regulating the use of agricultural and veterinary chemicals.

The APVMA has advised that currently there are no registered or permitted uses for avoparcin or oxolinic acid in food producing animal species in Australia and accordingly MRLs are not required. Avoparcin has been used in livestock feeds to improve animal feed conversion efficiency in broiler chickens, growing pigs, calves and beef cattle; and in the prevention of necrotic enteritis (*Clostridium perfringens*) in broiler chickens. Oxolinic acid is not registered as an approved active; there are no veterinary products containing it registered for use in Australia and no permits have ever been issued for its use in any food producing species, including fish. The APVMA advised that Australia produces no Pacific salmon and imports very little of the commodity.

1.3 Maximum Residue Limit Applications

After registering agricultural or veterinary chemical products, or varying use patterns based on scientific evaluations, the APVMA makes applications to FSANZ to adopt or vary MRLs in Standard 1.4.2 of the Code. FSANZ reviews information provided by the APVMA and validates whether 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 MRLs in Standard 1.4.2.

As the variation under consideration in this Application is deleting all entries for the antibiotics avoparcin and oxolinic acid from Standard 1.4.2, conducting dietary exposure assessments is not required.

FSANZ notifies the Australia and New Zealand Food Regulation Ministerial Council (Ministerial Council) when variations to the Code are approved. If the Ministerial Council does not request a review of the draft variations to Standard 1.4.2, the MRLs are automatically adopted by reference into the food laws of the Australian States and Territories.

1.4 Proposed Variation to Standard 1.4.2 – Maximum Residue Limits

The amendment under consideration in Application A590 is deleting the antibiotics avoparcin and oxolinic acid and all associated entries from Standard 1.4.2. The requested changes are outlined in the table below and the draft variation to the Code is at **Attachment 1**.

A guide to the table with notes on terms used and a list of acronyms appearing in MRL application reports are provided in **Attachment 2**.

Requested MRLs		Dietary Exposure Estimates	
Avoparcin			
Avoparcin is a glycopeptide an	tibiotic with a gram	n positive	Complete chemical deletion –
spectrum of activity produced			dietary exposure assessment not
Streptomyces candidus. Glycop			required.
medicine, most notably vancor			
has been used in livestock feed	•		
conversion efficiency in broiler			
and beef cattle; and in the prev			
(Clostridium perfringens) in br			
confirms that there are no curre			
for avoparcin in food producing			
accordingly MRLs are not requ			
chemical is to be omitted.			
Edible offal (mammalian)	Omit	*0.1	
Meat (mammalian)	Omit	*0.1	
Milks	Omit	*0.01	
Poultry, edible offal of	Omit	*0.1	
Poultry meat	Omit	*0.1	
Oxolinic acid			
Oxolinic acid belongs to the qu	Complete chemical deletion –		
effects antibacterial activity by	dietary exposure assessment not		
topoisomerase IV enzyme. Oxo	required.		
therapeutics in Australia. The A			
acid is not registered as an app			
veterinary products containing			
Australia; no permits have even			
food producing species, includ			
Pacific salmon and imports ver			
Accordingly, MRLs are not rec			
chemical is to be omitted.			
Salmon, Pacific	Omit	*0.01	

In considering the issues associated with MRLs it should be noted that MRLs and variations to MRLs 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.

1.5 Antimicrobial Resistance

Avoparcin is a glycopeptide antibiotic with a gram positive spectrum of activity produced by fermentation of a strain of *Streptomyces candidus*. Avoparcin was in continual use in Australian livestock feeds from 1978 until 2000 to improve animal feed conversion efficiency in broiler chickens, growing pigs, calves and beef cattle. It was also used in the prevention of necrotic enteritis (*Clostridium perfringens*) in broiler chickens. It is not used in human medicine. Other glycopeptides are used in human medicine, most notably vancomycin and teicoplanin.

The National Health and Medical Research Council established the Expert Advisory Group on Antimicrobial Resistance (EAGAR) to provide advice to government and regulatory agencies on antimicrobial resistance and measures to reduce the risks of antimicrobial resistance. Vancomycin and teicoplanin are classified as antibiotics of high importance in the EAGAR Importance Ratings and Summary of Antibiotic Uses in Humans in Australia. This indicates that if resistance develops there will be limited or no alternatives available to treat serious bacterial infections. Glycopeptides are used to treat serious infections including those caused by multiresistant *Staphylococcus aureus*, enterococci and antibiotic resistant pneumococci. Antibiotics of high importance have also been called 'last line' or 'last resort' antibiotics.

The APVMA (then the National Registration Authority for Agricultural and Veterinary Chemicals (NRA)) began a review of avoparcin in 1998. This followed concerns that the continued use of avoparcin in food producing animals may lead to development of acquired bacterial resistance in the gut of the animals and pose a possible threat to human health through contributing in the emergence of Vancomycin Resistant Enterococci (VRE). The review report notes that although several studies concluded that avoparcin residues were highly unlikely to enter the human food chain and factor in the emergence of VRE in humans, the primary registrant informed the NRA that it was withdrawing avoparcin from the market for commercial reasons. The other registrant also allowed the registration of its product to lapse. The NRA did not continue with the review as it was unlikely to have been completed before the anticipated withdrawal.

Oxolinic acid belongs to the quinolone class of antibiotics; it is active against gram-negative organisms. It effects antibacterial activity by inhibiting DNA gyrase or topoisomerase IV enzyme. It is used as both a prophylactic and a therapeutic agent in aquaculture internationally. Although many more recently developed quinolone analogues are more effective, it remains a cost effective option in aquaculture. Oxolinic acid, a first generation quinolone, is not used in human therapeutics in Australia. Quinolones are classified as antibiotics of medium importance in the EAGAR Importance Ratings and Summary of Antibiotic Uses in Humans in Australia. This indicates that there are alternatives available, but fewer than for those classified as low.

As avoparcin and oxolinic acid are not currently registered as approved actives and there are no permitted uses for these chemicals in Australia, there are no anticipated public health and safety concerns arising from this Application.

1.6 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, 2007 (and amendments) can be legally sold in Australia.

2. The Issue / Problem

Currently there are MRLs in the Code for avoparcin and oxolinic acid and there are no registered or permitted uses for these chemicals in Australia. Changes to Australian MRLs reflect the changing patterns of agricultural and veterinary chemicals available to farmers. Deleting MRLs from the Code has the effect of prohibiting the sale of treated produce. It is illegal to sell foods containing chemical residues where there is no MRL.

3. Objectives

In assessing this Application FSANZ aims to ensure that approving the proposed draft variation does not present public health and safety concerns. The APVMA has already deleted the avoparcin and oxolinic acid MRLs under its legislation, and now seeks to have them omitted from the Code through this Application to vary Standard 1.4.2.

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

- the protection of public health and safety;
- 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 Ministerial Council.

The Ministerial Council has endorsed a Policy Guideline for the Regulation of Residues of Agricultural and Veterinary Chemicals in Food¹, which has now been provided to FSANZ. In consultation with stakeholders, FSANZ will explore alternative options for regulating chemical residues in food. To ensure appropriate consultation, this process will take some time to complete.

The proposed draft variation to Standard 1.4.2 is consistent with the FSANZ Act section 18 objectives of food regulatory measures, including the Ministerial Policy Guidelines on the Regulation of Residues of Agricultural and Veterinary Chemicals in Food.

4. Key Assessment Questions

FSANZ's primary role in developing food regulatory measures for agricultural and veterinary chemicals is to ensure that the potential residues in treated food do not present public health and safety concerns.

Before an agricultural or veterinary chemical is registered, the *Agricultural and Veterinary Chemicals Code Act 1994* (Ag Vet Code Act) requires the APVMA to be satisfied that there will not be any appreciable risk to the consumer, to the person handling, applying or administering the chemical, to the environment, to the target crop or animal or to trade in an agricultural commodity.

As noted in the table in section 1.4, Application A590 seeks to delete the antibiotics avoparcin and oxolinic acid and all associated entries from Standard 1.4.2, therefore, a dietary exposure assessment is not required in this case.

RISK ASSESSMENT

5. Safety Assessment

The variation under consideration in Application A590 is deleting all entries for the antibiotics avoparcin and oxolinic acid from Standard 1.4.2. FSANZ considers that the Application raises no safety concerns from a dietary exposure or microbiological perspective.

http://www.health.gov.au/internet/wcms/publishing.nsf/Content/2087CDEAEE7C703CCA256F190003AF4B/\$File/pol-g-line-reg-res.pdf accessed 17 August 2007.

RISK MANAGEMENT

6. Options

6.1 Option 1 – no change to existing avoparcin and oxolinic acid MRLs in the Code

Under this option, there would be no changes to existing MRLs in the Code.

6.2 Option 2 – vary the Code in Schedule 1 of Standard 1.4.2 - Maximum Residue Limits to omit avoparcin and oxolinic acid MRLs and all associated entries as proposed

Under this option, the avoparcin and oxolinic acid entries would be deleted from the Code.

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 the affected parties, any alternative options consistent with the objective of the proposed changes, and the potential impacts of any regulatory or non-regulatory provisions. Information from public submissions is needed to make a final assessment of the proposed change.

7.1 Affected Parties

The parties affected by proposed MRL amendments include:

- domestic and international consumers;
- growers and producers of domestic and export food commodities;
- importers of agricultural produce and foods; 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 – no change to existing avoparcin and oxolinic acid MRLs in the Code

7.2.1.1 Benefits

No discernable benefits have been identified.

7.2.1.2 Costs

for consumers there are unlikely to be any discernable costs;

- for producers of domestic and export food commodities a discrepancy between agricultural and food standards may create uncertainty, inefficiency and confusion;
- for importers, this option would not result in any discernable costs; and
- for Australian Government, State and Territory agencies, adopting this option would allow discrepancies between agricultural and food standards thereby potentially creating uncertainty, inefficiency and confusion in the enforcement of regulations.
- 7.2.2 Option 2 vary the Code in Schedule 1 of Standard 1.4.2 Maximum Residue Limits to omit avoparcin and oxolinic acid MRLs and all associated entries as proposed

7.2.2.1 Benefits

- maintaining consumer confidence in the food supply in relation to residues of agricultural and veterinary chemicals;
- consistency between agricultural and food standards potentially minimises compliance costs for producers of domestic and export food products;
- for importers, removing the discrepancy between agricultural and food standards would promote certainty; and
- for Australian Government, State and Territory agencies, this option would foster community confidence that regulatory authorities are maintaining standards to minimise residues in the food supply and removing the discrepancy between agricultural and food standards would create certainty and allow efficient enforcement of regulations.

7.2.2.2 Costs

- for consumers there are no discernable costs:
- for growers and producers of domestic and export food commodities, there are no discernable costs, as there are no registered or permitted uses for avoparcin or oxolinic acid;
- for importers there are no discernable costs as the MRLs proposed for deletion are at the LOQ this means that no detectable residues of the chemicals should occur currently; and
- for Australian Government, State and Territory agencies, this option would not result in any discernable costs.

7.3 Comparison of Options

In assessing applications, 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. For Application A590, there are no options other than a variation to Standard 1.4.2.

FSANZ recommends approving option 2 – to vary the Code in Schedule 1 of Standard 1.4.2 - Maximum Residue Limits to omit avoparcin and oxolinic acid MRLs and all associated entries as proposed for the following reasons:

- There are no public health and safety concerns associated with the proposed MRL amendment (this benefit also applies to option 1).
- This approach ensures openness and transparency in relation to the residues that could reasonably occur in food.
- The change would update the Code by removing discrepancies between agricultural and food standards assisting enforcement.

COMMUNICATION AND CONSULTATION STRATEGY

8. Communication

Applications by the APVMA to amend maximum residue limits in the Code do 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 the Application 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 advice 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 and other advice, as required.

9. Consultation

FSANZ decided, pursuant to section 36 of the FSANZ Act, not to invite public submissions in relation to Application A590 prior to making a Draft Assessment. FSANZ made its decision under section 36 because it was satisfied that Application A590 raised issues of minor significance or complexity only. Section 63 of the FSANZ Act provides that, subject to the *Administrative Appeals Tribunal Act 1975*, an application for review of the decision to omit to invite public submissions prior to making a Draft Assessment, may be made to the Administrative Appeals Tribunal.

Public comment was sought on any cost/benefit impacts of the proposed deletions of specific MRLs; any public health and safety considerations; and any other affected parties to this Application.

Submissions were received from Food Technology Association of Australia Inc., the Queensland Government, the NSW Food Authority and the Australian Food and Grocery Council (AFGC). Submissions received are summarised in **Attachment 3**.

All submissions support approving option 2 – to vary the Code in Schedule 1 of Standard 1.4.2 - Maximum Residue Limits as proposed with the exception of the AFGC submission. The AFGC raised the issue of impacts on imported foods if those foods contained residues of avoparcin and oxolinic acid. The AFGC suggested that in the absence of a default limit for international trade based on Codex or other international standards, this will create difficulties with imported produce from countries where the use of avoparcin and oxolinic acid are permitted. Similarly, although the NSW Food Authority (the Authority) supported option 2, the Authority suggested that FSANZ assess the impact of proposed MRL withdrawals on trade of imported foods. The Authority stated that it would not like to deploy its resources in the recall of long shelf life foods affected by the MRL withdrawals proposed in this Application.

Evaluation

Foods containing agricultural or veterinary chemical residues must comply with the requirements in Standard 1.4.2 of the Code. MRL reductions and deletions have the potential to restrict the importation of foods as foods containing residues where there is no MRL in the Code could not be legally imported or sold in Australia. It can be difficult to determine the likely impacts of MRL reductions and deletions and FSANZ relies on public consultation to determine those foods which may be implicated by reductions and deletions. FSANZ advertises and publicly consults on proposed changes to MRLs and lists all amendments on the FSANZ website to assist industry sectors and other interested parties in identifying any impacts following deletions or reductions of specific MRLs.

At Initial / Draft Assessment, FSANZ requested comment as to any possible ramifications of deleting the MRLs for imported foods. Submitters raised no specific trade impact issues in regard to the proposed deletions. No submissions were received from importers commenting on the significance of the proposed deletions. On this basis and without detailed supporting data or incidences where deletions in other parts of the world for both antibiotics have impacted on imported foods, FSANZ cannot determine that there will be impacts on trade of imported foods as a result of variations to the Code through this Application. However, if subsequent impacts are identified then it is possible to make an Application to FSANZ to amend MRLs in the Code and any Application would be considered in accordance with the FSANZ Act.

In regard to the concept of a default level or recognition of Codex MRLs as raised in the AFGC submission, in consultation with stakeholders FSANZ will explore alternative options for regulating chemical residues in food. FSANZ considers the current regulatory approach is consistent with the Ministerial Policy Guidelines provided to FSANZ on the Regulation of Residues of Agricultural and Veterinary Chemicals in Food¹.

9.2 World Trade Organization (WTO)

As a member of the 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.

MRLs prescribed in the Code constitute a mandatory requirement applying to all food products of a particular class whether produced domestically or imported. Food products exceeding the relevant MRL set out in the Code cannot legally be supplied in Australia.

Application A590 requests deleting all MRLs for avoparcin and oxolinic acid from the Code. Codex Alimentarius Commission (Codex) standards are used as the relevant international standard or basis as to whether a new or changed standard requires a WTO notification. There are no avoparcin or oxolinic acid MRLs in the international Codex standard. Avoparcin and oxolinic acid residues may have an effect on trade in food products between WTO members. The existing MRLs in the Code for avoparcin and oxolinic acid are at the LOQ. This means that residues should not occur. Deleting the MRLs would prohibit the sale of treated produce. It is illegal to sell foods containing chemical residues where there is no MRL. It is considered unlikely that the proposed variation will have an effect on trade as the proposed variation to delete the avoparcin and oxolinic acid entries would not change the current Standard in that residues of these veterinary chemicals are not permitted currently. For these reasons it was determined that there is no need to notify this Application as a Sanitary and Phytosanitary (SPS) measure in accordance with the WTO Agreement on the Application of SPS Measures.

Internationally, countries set MRLs under their own regulations and 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 permissions for products differ. This means that residues in imported foods may be different from those in domestically produced foods. Residues of oxolinic acid have not been detected in domestic or imported farmed fish in the Australian market.

Avoparcin has not been used in New Zealand since 2000. There are no avoparcin MRLs listed in the New Zealand MRL Standards. New Zealand has not established MRLs above the generally accepted default level of 0.1 mg/kg for oxolinic acid. Avoparcin is not authorised for use in veterinary medicine in the European Union. The European Agency for the Evaluation of Medicinal Products currently permits oxolinic acid residues in tissues of food producing species in the European Union. Avoparcin is not approved for use in the United States and off label use of glycopeptides is prohibited. Quinolones are not approved for use in food fish in the United States. The United States Environmental Protection Agency has not established tolerances for residues of avoparcin or oxolinic acid.

CONCLUSION

10. Conclusion and Decision

This Application has been assessed against the requirements of the FSANZ Act. FSANZ recommends approving the proposed draft variation to Standard 1.4.2.

The recommendation is to adopt option 2 to vary Schedule 1 of Standard 1.4.2 to omit avoparcin and oxolinic acid MRLs and all associated entries as proposed.

Decision

FSANZ has made an assessment and recommends approving the proposed draft variation to Standard 1.4.2 – Maximum Residue Limits to remove all entries for avoparcin and oxolinic acid.

10.1 Reasons for Decision

FSANZ recommends approving the proposed draft variation to Standard 1.4.2 for the following reasons:

- FSANZ does not consider it appropriate to retain MRLs in the Code for specific food/chemical combinations where these residues are unlikely to occur in food. This approach ensures that the dietary exposure assessment is as accurate as possible for the chemical concerned. This approach also ensures openness and transparency in relation to the residues that could reasonably occur in food.
- The proposed deletion of all MRLs for avoparcin and oxolinic acid poses no adverse consequences to human health.
- The proposed draft variation would remove discrepancies between agricultural and food standards and provide certainty and consistency for growers and producers of domestic and export food commodities, importers and Australian, State and Territory enforcement agencies.
- FSANZ has undertaken a regulation impact assessment and concluded that the proposed draft variation is necessary and cost-effective.
- 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 Existing 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 chemical residues in foods.

The amendment in this Application will take effect on gazettal and the relevant food commodities will be subject to existing monitoring arrangements.

ATTACHMENTS

- 1. Draft Variation to the Australia New Zealand Food Standards Code
- 2. A Guide to the Table Outlining the Requested Variation to Standard 1.4.2 Maximum Residue Limits of the *Australia New Zealand Food Standards Code* and Terms Used in Dietary Exposure Assessments
- 3. Summary of Submissions

Attachment 1

Draft variation to the Australia New Zealand Food Standards Code

Section 94 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 1.4.2 of the Australia New Zealand Food Standards Code is varied by omitting from Schedule 1 all entries for the following chemicals –

Avoparcin Oxolinic acid

A Guide to the Table Outlining the Requested Variation to Standard 1.4.2 – Maximum Residue Limits of the Australia New Zealand Food Standards Code and Terms Used in Dietary Exposure Assessments

ADI – Acceptable Daily Intake - 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 based on all the known facts at the time of the evaluation of the chemical. The ADI is expressed in milligrams of the chemical per kilogram of body weight.

ARfD – Acute Reference Dose - The ARfD 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.

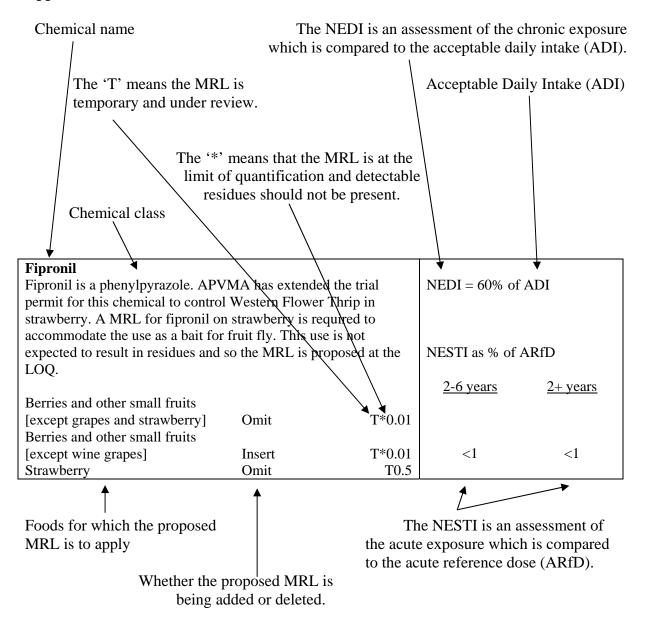
LOQ – Limit of Quantification - The LOQ is the lowest concentration of a pesticide residue that can be identified and quantitatively measured in a specified food, agricultural commodity or animal feed with an acceptable degree of certainty by a regulatory method of analysis.

NEDI - National Estimated Dietary Intake - The NEDI represents a realistic estimate of chronic dietary exposure and is the preferred calculation. It may incorporate more specific food consumption data including that 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; the effects of processing and cooking on residue levels; and may use median residue levels from supervised trials other than the MRL to represent pesticide residue levels. In most cases the NEDI is still an overestimation because more specific residue data are often not available and in these cases the MRL is used.

NESTI – National Estimated Short Term Intake - The NESTI is used to estimate acute dietary exposure. Acute (short term) dietary exposure assessments are undertaken when an ARfD has been determined for a chemical. Acute dietary exposures are normally only estimated based on consumption of 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. FSANZ has used ARfDs set by the TGA and Joint FAO/WHO Meeting on Pesticide Residues, the consumption data from the 1995 NNS and the MRL when the supervised trials median residue (STMR) is not available to calculate the NESTIs.

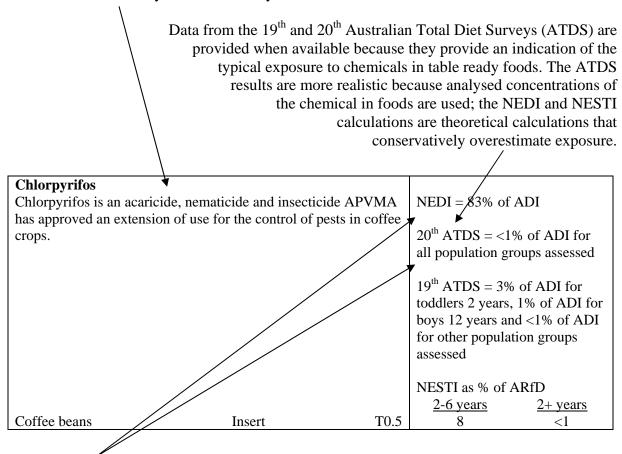
The NESTI calculation incorporates the large portion (97.5th percentile) food consumption data and can take into account such factors as the highest residue on a composite sample of an edible portion; the STMR, representing typical residue in an edible portion resulting from the maximum permitted pesticide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

The following are examples of entries and the proposed MRLs listed are not part of this Application.



There is more information on the NEDI, NESTI ADI and ARfD above and in **Attachment 3**. FSANZ considers that the chronic dietary exposure to the residues of a chemical is acceptable where the best estimate of this exposure does not exceed the ADI. And that the acute dietary exposure to the residues of a chemical is acceptable where the best estimate of acute dietary exposure does not exceed the ARfD.

Information about the use of the chemical is provided so consumers can see the reason why the residues may occur in food.



Small variations may be noted in the exposure assessment between different ATDSs. These variations are minor and typically result because of the different range of foods in the individual studies.

Acronyms:

1.	ADI	Acceptable Daily Intake
2.	APVMA	Australian Pesticides and Veterinary Medicines Authority
3.	ARfD	Acute Reference Dose
4.	ATDS	Australian Total Diet Survey
5.	the Code	Australia New Zealand Food Standards Code
6.	DIAMOND	Dietary Modelling of Nutritional Data
7.	FSANZ	Food Standards Australia New Zealand
8.	JMPR	Joint FAO/WHO Meeting on Pesticide Residues
9.	LOQ	Limit of Analytical Quantification
10.	MRL	Maximum Residue Limit
11.	NEDI	National Estimated Daily Intake
12.	NESTI	National Estimated Short Term Intake
13.	NNS	National Nutrition Survey of Australia 1995
14.	OCS	Office of Chemical Safety
15.	T or TMRL	Temporary MRL
16.	TGA	Therapeutic Goods Administration
17.	WHP	Withholding Period

Attachment 3

SUMMARY OF SUBMISSIONS

Submitter	Comments
Food Technology Association of Australia Inc.	Supported this Application.
Queensland Government	Supported this Application.
NSW Food Authority	Supported this Application but suggested that FSANZ assess the impact of proposed MRL withdrawals on trade of imported foods. The Authority stated that it would not like to deploy its resources in the recall of long shelf life foods affected by the MRL withdrawals proposed in this Application.
Australian Food and Grocery Council	Raised the issue of affects on imported foods if those foods contained residues of avoparcin and oxolinic acid. The AFGC suggested that in the absence of a default limit for international trade based on Codex or other international standards, this will create difficulties with imported produce from countries where the use of avoparcin and oxolinic acid are permitted.