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The Agricultural and Veterinary Chemical Code Act 1994 (the Act) commenced on 15 March 1995. The Agricultural and Veterinary Chemicals Code (the Agvet Code) scheduled to the Act requires notices to be published in the *Gazette* containing details of the registration of agricultural and veterinary chemical products and other approvals granted by the Australian Pesticides and Veterinary Medicines Authority. The Agvet Code and related legislation also requires certain other notices to be published in the *Gazette*. A reference to Agvet Codes in this publication is a reference to the Agvet Code in each state and territory jurisdiction.

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General information

The APVMA Gazette is published fortnightly and contains details of the registration of agricultural and veterinary chemicals products and other approvals granted by the APVMA, notices as required by the Agricultural and Veterinary Chemicals Code (the Agvet Code) and related legislation and a range of regulatory material issued by the APVMA.

Pursuant to section 8J(1) of the Agvet Code, the APVMA has decided that it is unnecessary to publish details of applications made for the purpose of notifying minor variations to registration details. The APVMA will however report notifications activity in quarterly statistical reports.

Distribution and subscription

The APVMA Gazette is published in electronic format only and is available from the APVMA website.

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Contents

Notice under section 34AC of the Agricultural and Veterinary Chemicals Code: Molinate reconsideration – final decision on reconsideration	1
Attachment A: Active constituent approval(s), product registration(s) and approved label(s) placed under reconsideration	2
Attachment B: Statement of reasons	3
Attachment C: Affirmed label	23

Notice under section 34AC of the Agricultural and Veterinary Chemicals Code: Molinate reconsideration – final decision on reconsideration

- The Australian Pesticides and Veterinary Medicines Authority (APVMA) has made a final regulatory decision in relation to a reconsideration of molinate active constituent approvals, product registrations and label approvals conducted under Part 2, Division 4 of the Agricultural and Veterinary Chemicals Code scheduled to the Agricultural and Veterinary Chemicals Code Act 1994 (Cth) (Agvet Code).
- 2) The molinate active constituent approvals, product registrations and label approvals affected by this decision are listed in Attachment A of this notice.
- 3) The APVMA has decided to:
 - a. affirm the molinate active constituent approvals listed in Attachment A, under section 34(1) of the Agyet Code;
 - b. vary the relevant particulars and conditions of registration of the product registrations listed in Attachment A, under section 34A(1) of the Agvet Code, to allow affirmation of the product registrations (as varied in the manner set out in paragraphs 27 (b) to (e) of the Statement of Reasons Attachment B, and described in Attachment C), under section 34(1) of the Agvet Code; and
 - c. vary the relevant particulars of the label approvals listed in Attachment A, under section 34A(1) of the Agvet Code, to allow affirmation of the label approvals (as varied in the manner set out in the paragraphs 42(a) to (g) of the Statement of Reasons Attachment B and described in Attachment C), under section 34(1) of the Agvet Code.
- 4) The APVMA has determined under section 81(3)(c) that section 81(3) of the Agvet Code will apply to the earlier approved labels (that is, the labels in Attachment A before variation), allowing supply of products bearing those earlier approved labels for a period of 2 years from the date of the final regulatory decision.

Statement of reasons for the final regulatory decision

5) The Statement of reasons for the final regulatory decision is provided at Attachment B of this notice.

Attachments

- Attachment A: Active constituent approval(s), product registration(s) and approved label(s) placed under reconsideration
- Attachment B: Statement of reasons
- Attachment C: Affirmed label

Attachment A: Active constituent approval(s), product registration(s) and approved label(s) placed under reconsideration

Туре	Approval or registration number	Name	Holder	Prior label approval number(s)	New label approval number(s)
Active constituent	44008	Molinate manufacturing concentrate	Nufarm Australia Limited	NA	NA
Active constituent	44458	Molinate	Nufarm Australia Limited	NA	NA
Active constituent	52439	Molinate	Sipcam Pacific Australia Pty Ltd	NA	NA
Product	49597	Ordram Herbicide	Nufarm Australia Limited	49597/1506	49597/RV22
Product	56744	Sirion Herbicide	Sipcam Pacific Australia Pty Ltd	56744/1508	56744/RV22

Attachment B: Statement of reasons

- The APVMA has reconsidered the public health, work health and safety, and environmental aspects of the active constituent molinate, product registrations containing molinate and associated label approvals under Part 2, Division 4 of the Agricultural and Veterinary Chemicals Code scheduled to the Agricultural and Veterinary Chemicals Code Act 1994 (Cth) (Agvet Code) to determine whether the approved active constituents, registered products and label approvals meet the relevant criteria, including the safety criteria (see section 5A of the Agvet Code) and labelling criteria (see section 5D of the Agvet Code).
- 2) The APVMA has decided to:
 - a. affirm the molinate active constituent approvals listed in Attachment A, under section 34(1) of the Agyet Code;
 - b. vary the relevant particulars and conditions of registration of the molinate chemical product registrations listed in Attachment A, under section 34A(1) of the Agvet Code, to allow affirmation of the product registrations (as varied in the manner set out in paragraphs 27 (b) to (e) of this Statement of Reasons and in Attachment C), under section 34(1) of the Agvet Code; and
 - c. vary the relevant particulars of the molinate chemical product label approvals listed in Attachment A, under section 34A(1) of the Agvet Code, to allow affirmation of the label approvals (as varied in the manner set out in the paragraphs 42(a) to (g) of this Statement of Reasons and in Attachment C), under section 34(1) of the Agvet Code.
- 3) The APVMA has determined under section 81(3)(b) that section 81(3) of the Agvet Code apply to the earlier approved labels, allowing supply of products bearing those earlier approved labels for a period of 2 years from the date of the final regulatory decision.
- 4) The reasons for the decisions are set out below as outlined in the table of contents:

Table of contents

Legislative framework	4
Information on which the decision is based	5
Material findings of fact and reasons for the decisions	5
Scope of the reconsideration of molinate	5
Active constituent approval	6
Consideration of whether the active constituents meet the safety criteria	6
Conclusion on whether the active constituents meet the safety criteria	7
Consideration of whether the active constituents meet the prescribed regulations	8
Conclusion of consideration of active constituents	9
Registered chemical products	9
Consideration of whether the registered chemical products meet the safety criteria	9
Consideration of whether the registered chemical products can be varied in such a way as to meet the safety of	
Consideration of whether the registered chemical products meet the efficacy criteria	
Consideration of whether the registered chemical products meet the trade criteria	17
Consideration of whether the registered chemical products comply with any requirement prescribed by the regulations	17
Conclusion of considerations of chemical products	17

Label approvals	17
Consideration of whether the approved labels meet the labelling criteria	18
Conclusion of whether the labels meet the labelling criteria	20
Consideration of whether the labels can be varied to meet the labelling criteria	20
Conclusion of considerations of labels	22
Conclusion	22

Legislative framework

5) The following sections of the Agvet Code, and clause 4 of Part 2 of the Agricultural and Veterinary Chemicals Code (Efficacy Criteria) Determination 2014 (Cth) were relevant to the reconsideration of molinate.

Section	Provision
5A	Definition of meets the safety criteria
5B	Definition of meets the efficacy criteria
5C	Definition of meets the trade criteria
5D	Definition of meets the labelling criteria
19	How approval of active constituent takes place
20	How registration of chemical product takes place
21	How approval of label takes place
31	The APVMA may reconsider an approval or registration
33	The APVMA may require information, reports, results or samples
34	Reconsideration by APVMA
34A	Varying relevant particulars or conditions to allow affirmation
34AA	Suspension or cancellation
34AB	Notice of proposed decision
34AC	Notice of decision on reconsideration

Information on which the decision is based

- 6) The APVMA considered the following information in making its decision:
 - a. The relevant provisions of the Agvet Code, in particular those set out above.
 - b. Information provided in response to notices issued under section 32(1) of the Agyet Code from:
 - i. SIPCAM Australia Pacific, as identified in the Final molinate Review Technical Report.
 - c. Information provided in response to notices issued under section 33 of the Agvet Code from:
 - i. Ricegrowers Australia Inc., as identified in the Final molinate Review Technical Report
 - ii. Cropcare Australia, as identified in the Final molinate Review Technical Report.
 - d. Information provided in response to notice of proposed decision under section 34AB of the Agvet Code from:
 - i. NuFarm Australia Limited, as identified in the Final molinate Review Technical Report
 - e. Other information as detailed in the Final molinate Review Technical Report.
 - f. APVMA records for approval of relevant active constituents and labels, and registration records of the relevant products.

Material findings of fact and reasons for the decisions

Scope of the reconsideration of molinate

- 7) The reconsideration of molinate was initiated on the basis that information available showed that the APVMA might not be able to maintain its satisfaction that the continued approvals of the active constituent molinate and registration of products containing molinate based on the current use pattern would not be:
 - a. an undue hazard to the safety of people exposed to it during its handling;
 - b. likely to have an effect that is harmful to human beings; or
 - c. likely to have an unintended effect that is harmful to animals, plants or things or to the environment.
- 8) The following aspects of the active constituent approvals, product registrations and label approvals were specifically included in the reconsideration of molinate:
 - a. Toxicology, including the potential for:
 - i. impaired fertility and neuropathy in humans which might pose an undue hazard to human health; and
 - ii. adverse effects to humans resulting from exposure via the oral, dermal and inhalation routes.
 - b. Environmental, including the potential:
 - for contamination of waterways indicated by varying levels of molinate recorded in drainage water from rice fields; and
 - hazard to non-target fauna and flora.
 - c. Work health and safety, including:
 - i. possible risks to workers health associated with short and intermediate term occupational exposure
 - ii. the potential for hazards to worker safety.
 - d. The adequacy of instructions and warnings on product labels.

Attachment B

Active constituent approval

- 9) Section 34(1) of the Agvet Code provides that the APVMA must affirm the approval of an active constituent if and only if it is satisfied that the constituent:
 - a. meets the safety criteria; and
 - b. complies with any requirement prescribed by the regulations.

Consideration of whether the active constituents meet the safety criteria

- 10) Section 5A(1) of the Agvet Code provides that an active constituent meets the safety criteria if use of the active constituent, in accordance with any instructions approved or to be approved by the APVMA for the constituent is not, or would not be:
 - an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues: see section 5A(1)(a);
 - b. likely to have an effect that is harmful to human beings: see section 5A(1)(b); or
 - c. likely to have an unintended effect that is harmful to animals, plants or things or to the environment: see section 5A(1)(c).
- 11) In determining that the active constituents meet the safety criteria, the APVMA has had regard to the criteria set out in section 5A(2)(a) as follows:
 - a. Section 5A(2)(a)(i) the toxicity of the constituent and its residues, including metabolites and degradation
 products in relation to relevant organisms and ecosystems, including human beings, in accordance with
 section 5A(2)(a)(i).
 - i. In considering the toxicity of the constituent and its residues, the APVMA has had regard to acute, short term, chronic, reproduction, developmental, genotoxicity and neurotoxicity studies which are detailed in the Final molinate Review Technical Report.
 - ii. The use of the active constituent in agricultural chemical products.
 - iii. The fate of the active constituent in the environment, its toxicity to off target species and data on the discharge of irrigation water containing molinate to the environment.
 - iv. The acute dietary exposure estimated by the National Estimated Short-Term Intake (NESTI) calculation for molinate.
 - b. Section 5A(2)(a)(ii) the method by which the constituent is manufactured.
 - In considering the method of manufacture, the APVMA has had regard to the existing approval records.
 Additionally, there have been no concerns raised as part of this reconsideration regarding the method of manufacture.
 - c. Section 5A(2)(a)(iii) the extent to which the constituent will contain impurities.
 - In considering the extent to which the constituent will contain impurities, the APVMA has had regard to the existing approval records. Additionally, there have been no concerns raised as part of this reconsideration regarding impurities.
 - d. Section 5A(2)(a)(iv) whether an analysis of the chemical composition of the constituent has been carried out and, if so, the results of the analysis.
 - Batch analyses and a "Declaration of Composition" of the active constituent were assessed by the APVMA as part of the approval application.

- ii. There have been no concerns raised during this reconsideration regarding the chemical composition of the active constituent.
- e. Section 5A(2)(a)(v) any conditions to which its approval is subject, in accordance with section 5A(2)(v).
 - The conditions to which the approval of an active constituent is subject are set out in the table in regulation 17C of the *Agricultural and Veterinary Chemicals Code Regulations 1995* (Cth) (the Agvet Code Regulations). These are appropriate and apply to each active constituent.
 - The active constituent must be manufactured in accordance with the composition and purity entered for that active constituent in the Record.
 - iii. The active constituent must be manufactured by the manufacturer whose name is entered in the Record.
 - iv. The active constituent must be manufactured at the site of manufacture entered in the Record.
 - v. The identifying information for the holder of the approval and the nominated agent (if any), must be the identifying information entered in the Record.
- f. Section 5A(2)(a)(vi) any relevant particulars that are entered into the Record for molinate. These include the distinguishing number and the particulars prescribed by the Agvet Code Regulations (see section 19 of the Agvet Code). The particulars prescribed by the Agvet Code Regulations for the purposes of section 19(c) of the Agvet Code are set out in regulation 15 of the Agvet Code Regulations. The APVMA does not consider any changes are required to the particulars of any of the active constituents currently approved. The particulars on the record for each approved active constituent have been reviewed including: the IUPAC¹ name, the composition and purity of the active, the name of the manufacturer, the address of each site at which the active constituent is manufactured, the holder of the approval and the date of entry of these particulars. The entries are considered appropriate, and no concerns have been raised.
- g. Section 5A(2)(a)(via) whether the constituent conforms, or would conform, to any standard made for the constituent under section 6E to the extent that the standard relates to matters covered by subsection 5A(1).
 - i. The APVMA has established a standard for Molinate under section 6E.
 - ii. The *Final molinate Review Technical Report* concludes that the active constituents listed in Attachment A conforms to the standard.
- h. Section 5A(2)(a)(vii) any matters prescribed by the regulations.
 - i. Regulation 8AA prescribes the method of analysis (if any) of the chemical composition of the active constituent concerned for the purposes of section 5A(2)(a)(vii) of the Agvet Code. Details of the method of analysis used to determine the chemical composition of the active constituent were submitted and assessed as part of the application to approve the active constituent. There have been no concerns raised as part of this reconsideration regarding the method of analysis of the chemical composition of the active constituent.

Conclusion on whether the active constituents meet the safety criteria

- 12) Having regard to the matters in section 5A(2)(a), the APVMA is satisfied that use of molinate as an active constituent in agricultural chemical products is not, or would not be:
 - a. an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues: see section 5A(1)(a); or

¹ International Union of Pure and Applied Chemistry – see Regulation 15(1)(a).

Attachment B

- b. likely to have an effect that is harmful to human beings: section 5A(1)(b); or
- c. likely to have an unintended effect that is harmful to animals, plants or things or to the environment: see section 5A(1)(c).

13) Reasons for satisfaction:

- a. Section 5A(1)(a) the APVMA is satisfied that the use of the active constituent is not an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues because:
 - i. the toxicology assessment detailed in the *Final molinate Review Technical Report* found no objections on toxicological grounds to the ongoing approval of the active constituent molinate
 - ii. an acceptable daily intake (ADI) has been determined for molinate of 0.0003 mg/kg bw/d as a safe level of exposure for long term dietary exposure. The ADI is the level of intake of a chemical that can be ingested daily over an entire lifetime without appreciable risk to health. The ADI incorporates a 1,000-fold uncertainty factor to account for inter- and intra-species variation in sensitivity, as well as for the use of a lowest observed adverse effect level rather than a no observed adverse effect level
 - iii. an acute reference dose (ARfD) has been established for molinate of 0.002 mg/kg bw for safe levels of exposure for short term dietary exposure. The ARfD is the estimate of the amount of a substance in food or drinking water, expressed on a milligram per kilogram body weight basis, that can be ingested over a short period of time, usually one meal or one day, without appreciable health risk to the consumer on the basis of all known facts at the time of the evaluation
 - iv. the worker exposure assessment detailed in the *Final molinate Review Technical Report* has identified safe levels of exposure for occupational exposure to molinate
 - v. molinate will remain in Schedule 7 and Appendix J of the Standard for the Uniform Scheduling of Medicines and Poisons.
- b. Section 5A(1)(b) the APVMA is satisfied that the use of the active constituents is not, or would not be, likely to have an effect that is harmful to human beings because:
 - as noted above, the toxicology and worker exposure assessments detailed in the *Final molinate Review Technical Report* have established safe levels of exposure for both long- and short-term exposure to molinate respectively and also for occupational exposure
 - ii. the worker exposure assessment has identified safe levels of exposure for occupational exposure to molinate which includes a restriction on the amount handled per day
 - iii. acceptable ADI and ARfD are able to be established indicating there is a level of dietary exposure to molinate through consumption of foods containing residues of molinate which is not likely to have an effect that is harmful to human beings.
- c. Section 5A(1)(c) the APVMA is satisfied that the use of the active constituent is not, or would not be, likely to have an unintended effect that is harmful to animals, plants or things or to the environment because:
 - i. the assessment of water monitoring data, demonstrated adequate management of discharge to the environment from the current use pattern.
- 14) The APVMA is satisfied, for the purposes of section 34(1)(a), that the molinate active constituent approvals in Attachment A meet the safety criteria set out in section 5A(1) of the Agvet Code.

Consideration of whether the active constituents meet the prescribed regulations

15) The particulars to be recorded for an active constituent are listed under regulation 15. Based on the information submitted with the application for approval of each active constituent, the APVMA is satisfied that the current entries are correct and that no concerns have been raised as part of this reconsideration.

16) The conditions of approval for active constituents are detailed in regulation 17C(1). The APVMA is satisfied that these conditions are appropriate for all current active constituents.

Conclusion of consideration of active constituents

- 17) As the APVMA is satisfied that the active constituent meets the safety criteria, including compliance with requirements prescribed by the regulations, section 34(1) of the Agvet Code provides that the APVMA must affirm the approval of the active constituent.
- 18) As the APVMA is able to establish both an ADI and ARfD for safe levels of consumption for long-term and short-term dietary intake, respectively, the APVMA is satisfied that the use of the active constituent in products can be assessed as to whether it presents an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues. Both ADI and ARfD are health-based guidance values which underpin the assessment of product use patterns. Although they indicate safe levels of exposure, they are not relevant particulars that are entered into the Record for the active constituent. Therefore, a change to these values does not change any relevant particulars in the Record for the active constituent.
- 19) The relevant particulars and conditions of approval of the molinate active constituents listed in Attachment A can be affirmed.

Registered chemical products

- 20) Section 34(1) of the Agvet Code provides that the APVMA must affirm the registration for a chemical product if, and only if, it is satisfied that the product:
 - a. meets the safety criteria (section 5A);
 - b. meets the efficacy criteria (section 5B);
 - c. meets the trade criteria (section 5C); and
 - d. complies with any requirement prescribed by the regulations.

Consideration of whether the registered chemical products meet the safety criteria

- 21) As both registered products are 960 g/L molinate, emulsifiable concentrate formulations with the same use pattern, the following considerations have been made for each product and apply equally to each product.
- 22) Section 5A(1) of the Agvet Code provides that a chemical product 'meets the safety criteria' if use of the product, in accordance with any instructions approved, or to be approved, by the APVMA for the product or contained in an established standard is not, or would not be:
 - a. an undue hazard to the safety of people exposed to it during its handling or people using anything containing its residues: see section 5A(1)(a);
 - b. likely to have an effect that is harmful to human beings: see section 5A(1)(b); or
 - c. likely to have an unintended effect that is harmful to animals, plants or things or to the environment: see section 5A(1)(c).
- 23) In determining whether the chemical products meet the safety criteria the APVMA has had regard to the criteria set out in section 5A(3)(a) as follows:
 - a. Section 5A(3)(a)(i) the toxicity of the product and its residues, including metabolites and degradation products, in relation to relevant organisms and ecosystems, including human beings.
 - i. The existing product registration records the existing approval records for the active constituents.

- ii. The findings in the *Final molinate Review Technical Report*, that there are no objections on toxicological grounds to the ongoing approval of molinate as an active constituent.
- iii. The results of acute, short-term, chronic, reproduction, developmental, genotoxicity and neurotoxicity studies detailed in the *Final molinate Review Technical Report*.
- iv. The establishment of an ADI for molinate of 0.0003 mg/kg bw/d, based on degeneration or demyelination in the sciatic nerve in rats at 0.3 mg/kg bw/day following dosing for 2 years.
- v. The establishment of an ARfD for molinate of 0.002 mg/kg bw based on a low observed adverse effect level of 1.8 mg/kg bw in a rat development neurotoxicity study, and the application of a 1,000-fold safety factor to account for inter- and intra-species variation in sensitivity, as well as for the use of a low observed adverse effect level rather than a no observed adverse effect level.
- vi. The findings in the *Final molinate Review Technical Report* and existing product registration records, that the current molinate residue definition in the Maximum Residue Limit (MRL) standard remains appropriate as parent only (molinate) and confirming the current MRL *0.05 mg/kg in rice which is set at the limit of quantification.
- vii. The assessment of worker exposure detailed in the *Final molinate Review Technical Report* identified that the current use pattern may result in unsafe levels of occupational exposure to molinate and therefore the products would not meet the safety criteria. However, the report also detailed how the level of exposure could be reduced to be acceptable through the use of PPE, limiting the application rate and varying the use pattern to limit exposure.
- viii. The findings in the *Final molinate Review Technical Report* and existing product registration records, of the fate of the active in the environment, its toxicity to off target species and data on the discharge of irrigation water containing molinate to the environment.
- ix. There are no restrictions on the current label to account for the impact of spray drift on relevant organisms and ecosystems, including human beings.
- x. The history of use of the product and that no reports of crop damage from the use of molinate products have been received by the Adverse Experience Reporting Program of the APVMA.
- b. Section 5A(3)(a)(ii) the relevant poison classification of the product under the law in force in this jurisdiction.
 - Molinate was confirmed as a Schedule 7 Poison and is included in Appendix J of the Standard for the Uniform Scheduling of Medicines and Poisons.
- c. Section 5A(3)(a)(iii) how the product is formulated.
 - i. In considering how the products are formulated, the APVMA has had regard to the existing approval records. The currently registered products containing molinate as an active constituent are both formulated as 960 g/L molinate emulsifiable concentrate products.
 - ii. There have been no concerns raised as part of this reconsideration regarding the formulation of the products.
- d. Section 5A(3)(a)(iv) the composition and form of the constituents of the product.
 - i. In considering the composition and form of the constituents of the product, the APVMA has had regard to the existing approval records.
 - ii. There have been no concerns raised as part of this reconsideration regarding the composition and form of the constituents of the product.
- e. Section 5A(3)(a)(v) any conditions to which its registration is, or would be, subject.

- The products are currently subject to the conditions of registration detailed under regulation 17(c)(2) items 1,2, 5, 6 and 7 (items 3 and 4 do not apply to agricultural chemical products as prescribed under regulation 59).
- ii. The products are also subject to the conditions of registration of chemical products containers detailed under regulation 18.
 - (i) The *Final molinate Review Technical Report* identified the need for closed mixing and loading of molinate to prevent exceedance of safe exposure levels to workers during mixing and loading
 - (ii) Refillable containers are compatible with closed mixing and loading, all other types of containers are not.
 - (iii) The current conditions of registration of chemical products containers, are not sufficient to ensure the chemical products are supplied in appropriate refillable containers.
- iii. The products are currently subject to the following additional conditions routinely applied to all agricultural chemical products to assure quality of those products:
 - (i) Manufacture of active constituent the registrant must not supply the chemical product, or cause it to be supplied, unless the active constituent contained in the chemical product:
 - (a) complies with the APVMA Standard for that active constituent; and
 - (b) was manufactured at a site of manufacture listed in the Record of approved active constituents.
 - (ii) Analysis results the registrant must not supply the chemical product or cause it to be supplied unless the registrant has in its possession prior to the supply of each batch of the chemical product, batch analysis results that show:
 - the active constituent contained in the chemical product complied with the APVMA Standard for that active constituent;
 - (b) if there is an APVMA Standard for a constituent in the chemical product that is not an active constituent, the constituent complied with the APVMA Standard for that constituent;
 - (c) the batch number of the active constituent contained in the chemical product.
 - (iii) Records the registrant must, at or prior to the supply of a batch of the chemical product by the registrant or by another person on behalf of the registrant, make or have in its possession, a record that contains the following information:
 - (a) The name of the chemical product
 - (b) The APVMA product number of the chemical product
 - (c) If the chemical product was imported into Australia by another person on behalf of, or pursuant to an arrangement with the registrant, the name and address of that person
 - (d) If the chemical product was manufactured in Australia by another person on behalf of, or pursuant to an arrangement with the registrant, the name and address of that person
 - (e) The date of importation into, or manufacture in, Australia as the case may be
 - (f) The batch number of the chemical product from which the supply was made
 - (g) The quantity of the chemical product that constitutes the batch
 - (h) The batch number, and name and address of the manufacturer of the active constituent contained in the chemical product

Attachment B

- (iv) The registrant must produce, or cause to be produced, to the APVMA any batch analysis results or record within 10 working days of the request having been made by the APVMA, or other such period as determined by the APVMA.
- (v) The registrant must keep, or cause to be kept, any batch analysis results or record for 2 years after any batch analysis results or record is made.
- (vi) Possession of batch analysis results and records for the purposes of these conditions, batch analysis results or records are in the possession of the registrant if batch analysis results or records are:
 - (a) in the possession of the registrant; or
 - (b) in the possession of another person pursuant to an arrangement with the registrant.
- (vii) Compliance with the Standard for the purposes of these conditions, a constituent complies with the APVMA Standard if the constituent, when measured using a validated analytical method does not contain:
 - (a) less than the minimum purity and/or content of the constituent as set out in the APVMA Standard for the Constituent
 - (b) more than the maximum level of any impurity as set out in the APVMA Standard.
- (viii) Definitions and Interpretation in these conditions the following words have the following meanings:

'APVMA Standard' means the standard determined by the APVMA to which a constituent contained in chemical products must comply and which is published on the APVMA website.

'Batch' means a defined quantity of material produced in a single series of operations.

'Batch number' means that a distinctive combination of numbers and/or letters that specifically identifies a batch and from which the production history can be determined.

'Batch analysis results' means the results of analysis from each batch of the constituent that include:

- (a) the name of the manufacturer and the manufacturing site address
- (b) the date of the analysis
- (c) the batch number and date of manufacture of the batch
- (d) the analysis result(s) for the constituent purity and/or content and/or isomer ratio and/or the specified impurities as per the APVMA Standard for the constituent
- (e) full details and validation data for the analytical method(s) used for the determination of the constituent purity (linearity and precision) and/or the content and/or the isomer ratio and/or the specified impurities (linearity, precision, accuracy and limit of quantitation if relevant).

If analytical methods and validation data have been previously provided to the APVMA, a reference to that submission will suffice.

'Record' means a document in written or electronic form that contains the particulars set out in paragraph 3 and which is readily accessible for the purposes of Part 9 of the Agvet Codes (Enforcement).

'Supply' has the same meaning as given to it in Section 3 of the Agvet Codes and includes the doing of those things through, or pursuant to an arrangement with, another person.

- f. Section 5A(3)(a)(vi) any relevant particulars that are, or would be, entered in the Register for the product.
 - The distinguishing number remains appropriate.
 - ii. The instructions for use considered during the reconsideration were those previously applied to the product and detailed on the product labels. These instructions could not be supported due to unacceptable levels of exposure to workers under the current instructions for use, but it was determined that the instructions for use could be varied such that the product will meet the safety criteria. These are detailed in the *Final molinate Review Technical Report*.
 - iii. Other particulars prescribed by the Agvet Code Regulations (see regulation 16) were confirmed by existing product registration records.
- g. Section 5A(3)(a)(via) whether the product conforms, or would conform, to any standard made for the product under section 6E to the extent that the standard relates to matters covered by subsection (1).
 - i. There is no standard for these products made under section 6E.
- h. Section 5A(3)(a)(vii) any matters prescribed by the regulations.
 - i. Regulation 8AB(1)(a) of the Agvet Code Regulations prescribes the method of analysis (if any) of the chemical composition and form of the constituents of the chemical product. In considering method of analysis of the chemical composition and form of the constituents in the chemical products, the APVMA has had regard to the existing product records. Additionally, there have been no concerns raised as part of this reconsideration regarding analysis of the composition and form of the constituents in these chemical products.
 - ii. Agvet Code Regulations 8AB(1)(b) and (c) do not apply as the product is an agricultural product and is prescribed under regulation 59(1) for the purposes of section 120A of the Agvet Code.
 - iii. Agvet Code Regulations 8AB(1)(d), (e) and (f) do not apply based on the use pattern of the product.
- 24) Under section 5A(3)(b) the APVMA may have regard to one or more of the following matters in determining whether a chemical product meets the safety criteria:
 - a. Section 5A(3)(b)(i) the ADI of each constituent contained in the product;
 - i. An ADI has been determined for molinate of 0.0003 mg/kg bw/d as a safe level of exposure for long term dietary exposure.
 - b. Section 5A(3)(b)(ii) any dietary exposure assessment prepared under subsection 82(4) of the Food Standards Australia New Zealand Act 1991 as a result of any proposed variation notified under subsection 82(3) of that Act in relation to the product, and any comments on the assessment given to the APVMA under subsection 82(4) of that Act.
 - i. The dietary exposure associated with the use of molinate on rice was considered and is detailed in the Final molinate Review Technical Report.
 - c. Section 5A(3)(b)(ii) whether any trials or laboratory experiments have been carried out to determine the residues of the product and, if so, the results of those trials or experiments and whether those results show that the residues of the product will not be greater than limits that the APVMA has approved or approves.
 - i. In considering whether residues of the product will not be greater than limits that the APVMA has approved, the APVMA has had regard to the existing product records. Additionally, there have been no concerns raised as part of this reconsideration regarding the current MRL.
 - d. Section 5A(3)(b)(iv) the stability of the product.

Attachment B

- i. In considering the stability of the chemical products, the APVMA has had regard to the existing product records. Additionally, there have been no concerns raised as part of this reconsideration regarding analysis of the composition and form of the constituents in these chemical products.
- e. Section 5A(3)(b)(v) the specifications for containers for the product.
 - i. In considering specifications for containers, the APVMA has had regard to the existing product records regarding the stability of the product in the proposed containers and the integrity of the container during storage of the product. Additionally, there have been no concerns raised with the current specifications for containers for these products.
 - ii. The product is subject to the conditions of registration prescribed under regulation 18(2), which are satisfied.
- f. Section 5A(3)(b)(vi) there are no other matters that the APVMA thinks relevant.
- 25) The APVMA is not satisfied that the molinate chemical product registrations currently meet the safety criteria for the reasons set out below:
 - a. The toxicology assessment detailed in the *Final molinate Review Technical Report* found that the current ADI and ARfD for molinate should be amended/established as follows:
 - i. The ADI should be amended to be 0.0003 mg/kg bw/d as a safe level of exposure for long-term dietary exposure.
 - ii. The ARfD should be established at 0.002 mg/kg bw for safe levels of exposure for short-term dietary exposure.
 - b. The assessment of work health and safety, detailed in the Final molinate Review Technical Report found that:
 - there is currently an unacceptable risk to operators involved in mixing and loading the products and for pilots during fixed wing and helicopter aerial application of the products when current instructions for use are followed.
 - c. The current use pattern does not prevent exceedance of Regulatory Acceptable Level (RALs) of exposure resulting from spray drift that must not be exceeded for protection of relevant organisms and ecosystems, including human beings. The basis for the establishment of each RAL is detailed in the *Final molinate Review Technical Report*. They are:

i. bystander areas: 15 g ac/ha

ii. natural aquatic areas: 26 µg ac/L

iii. pollinator areas: not required

iv. vegetation areas: 123 g ac/ha

- v. livestock areas: a RAL was not determined as the method of application limits off target movement and there have been no known residue related trade incidents.
- d. Current conditions of registration of chemical products containers are not sufficient to ensure that the products are supplied in containers compatible with closed mixing and loading, as required to protect worker health and safety.

Consideration of whether the registered chemical products can be varied in such a way as to meet the safety criteria

26) Section 34A(1) provides that if the APVMA is not satisfied under section 34(1) but is satisfied that the relevant particulars or conditions of the registration can be varied in such a way as to allow the registration to be affirmed, the APVMA must vary the relevant particulars or conditions.

- 27) The APVMA has considered whether the ADI, ARfD, instructions for use including spray drift restraints, and conditions of registration of chemical products can be varied in such a way as to meet the safety criteria. The APVMA has determined that the relevant particulars can be determined or varied as follows to meet the safety criteria:
 - a. The appropriate ADI and ARfD can be established.
 - b. The current instructions for use can be varied to limit the exposure to workers to an acceptable level by making all of the variations outlined below:
 - i. Maintaining the current PPE when mixing and loading and applying the product.
 - ii. Limiting the use pattern to be only when applied by Soluble Chemical Water Injection In Rice Technique (SCWIIRT) from helicopters or via a Bickley boom from fixed wing aircraft.
 - iii. Restricting the quantity of product handled by applicators (pilots), to no more than 1,900 L per day. Which is equivalent to spraying an area of no more than 500 hectares per day at the maximum rate of 3.75 L/ha or no more than 750 hectares per day at the minimum rate of 2.5 L/ha.
 - iv. Restricting the quantity of product handled by workers undertaking mixing and loading, to no more than 1,415 L per day. At a label mixing rate of 3.75 L product in 10 L water, this is equivalent to 5,185 L of diluted spray mix, sufficient to treat 377 ha.
 - c. Ensuring that separate workers are undertaking the mixing/loading and applications (i.e. pilots/applicators must not mix and load and mixer/loaders must not apply). The conditions of registration of chemical products can be varied by addition of a condition restricting the product packaging to refillable containers compatible with closed mixing and loading as below:
 - i. "The product must be supplied only in a refillable container compatible with closed mixing and loading"
 - ii. For the purposes of this condition, refillable containers are defined as "containers that are to be returned to the supplier for reuse once emptied, without rinsing."
 - d. Spraydrift restraints and buffer zones can be applied to fixed wing aircraft which will ensure that RALs are not exceeded as follows:
 - i. DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.
 - ii. DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings from one to 2 hours before sunset and persist until one to 2 hours after sunrise.
 - iii. DO NOT apply by fixed wing aircraft unless the following additional requirements are met:
 - · Apply only by Bickley boom
 - The release height is not greater than 3 m or 25% of wingspan above the ground, whichever is the greatest.
 - Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for fixed-wing aircraft using Bickley boom) are observed.

Buffer zones for fixed-wing aircraft using Bickley boom				
Application rate	Mandatory downwind buffer zones			
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas
2.5 L in minimum 10 L/ha water	150 metres	85 metres	0 metres	30 metres
3.75 L in minimum 10 L/ha water	200 metres	110 metres	0 metres	45 metres

- e. Spraydrift restraints can be applied to helicopters which will ensure that RALs are not exceeded as follows:
 - i. DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.
 - ii. DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to 2 hours before sunset and persist until one to 2 hours after sunrise.
 - iii. DO NOT apply by helicopter unless the following additional requirements are met:
 - Apply only by SCWIIRT (Soluble Chemical Water Injection In Rice Technique).
 - The release height is not greater than 2 metres above the ground.
 - The flying speed is not greater than 50 knots (92 km/hr).
 - Minimum distances between the application site and downwind sensitive areas that appear in the 'Mandatory downwind buffer zones' section of the following table titled 'Buffer zones for helicopter using SCWIIRT') are observed.

Buffer zones for helicopter using SCWIIRT				
Application rate	Mandatory downwind buffer zones			
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas
2.5 L in minimum 10 L/ha water	10 metres	10 metres	0 metres	0 metres
3.75 L in minimum 10 L/ha water	15 metres	10 metres	0 metres	5 metres

- 28) Section 34A (3) provides that if the variation would affect instructions for use of a chemical product, the APVMA must not make the variation until it has consulted each co-ordinator designated for a jurisdiction and taken into account any recommendations made by the coordinators.
 - a. The products are only registered for use in NSW. The NSW coordinator has been consulted and made no recommendations.

Consideration of whether the registered chemical products meet the efficacy criteria

- 29) Having regard to the matters in section 5B(1) and paragraphs 5B(2)(a-d), and clause 4 of the *Agricultural and Veterinary Chemicals Code (Efficacy Criteria) Determination 2014 (Cth)*², the APVMA is satisfied that use of the product is effective as a herbicide for post emergence control of barnyard grasses and silver top grass in rice in permanent water based on the following:
 - a. It would, to a reasonable degree, achieve one of the effects listed in paragraphs 4(2)(a) to (e) of the Agvet Code, namely destroying a plant (section 4(2)(b)).

² The Agricultural and Veterinary Chemicals Code (Efficacy Criteria) Determination 2014 enacted under s 5B(1) contains efficacy criteria determined by the APVMA by legislative instrument. The APVMA considers this instrument to contain relevant matters for the purposes of s 5B(3).

b. There is a demonstrated history of sale and effective use in equivalent uses as outlined in the *Final molinate*Review Technical Report.

Consideration of whether the registered chemical products meet the trade criteria

- 30) A chemical product meets the trade criteria under section 5C(1) if the use of the product in accordance with instructions approved or to be approved by the APVMA does not or would not unduly prejudice trade between Australia and places outside Australia.
- 31) As it is reasonably expected that rice (the only crop with an approved use pattern) might be provided to a place outside Australia, regulation 8AD(2) applies and the APVMA must have full regard to all of the matters set out in section 5C(1) and (2) of the Agvet Code.
- 32) Having regard to all matters in section 5C (2):
 - a. The conditions to which its registration is subject.
 - b. The relevant particulars entered in the register for the product.
 - c. That there is no relevant standard made for the product under section 6E for the product.
 - d. There are no additional matters prescribed by the regulations.
 - The APVMA is satisfied that use of the product meets the trade criteria as described in section 5C(1) and does not or would not unduly prejudice trade or commerce between Australia and other places outside Australia. This is supported by the following:
 - e. An MRL has been established at the limit of detection under the Agricultural and Veterinary Chemicals Code (MRL Standard) Instrument 2019.
 - f. A history of use with no known residue related trade incidents.

Consideration of whether the registered chemical products comply with any requirement prescribed by the regulations

- 33) The particulars to be recorded for a chemical product are listed under regulation 16. Based on the information submitted with the application for registration of the product the current entries have been confirmed and no concerns have been raised as part of this reconsideration.
- 34) The conditions of registration for chemical product are detailed in regulation 17C and regulation 18. Additional conditions apply to the current product registrations as outlined in paragraph 23 e above. The conditions that currently apply to these products remain appropriate.

Conclusion of considerations of chemical products

35) The APVMA is satisfied that the molinate chemical product registrations listed in Attachment A meet the efficacy and trade criteria. The APVMA is not satisfied that those same products meet the safety criteria, however the APVMA is satisfied that the relevant particulars and conditions of registration of chemical products can be varied to allow affirmation (as varied) under section 34(1) of the Agvet Code.

Label approvals

- 36) Section 34(1) of the Agvet Code provides that the APVMA must affirm the approval of a product label if, and only if it is satisfied that the label:
 - a. meets the labelling criteria
 - b. complies with any requirement prescribed by the regulations.

- 37) Section 5D(1) of the Agvet Code provides that a label for containers for a chemical product 'meets the labelling criteria' if the label contains adequate instructions relating to such of the following as are appropriate:
 - a. The circumstances in which the product should be used
 - b. How the product should be used
 - c. The times when the product should be used
 - d. The frequency of the use of the product
 - e. The withholding period after the use of the product
 - f. The re-entry period after the use of the product
 - g. The disposal of the product when it is no longer required
 - h. The disposal of containers of the product
 - i. The safe handling of the product and first aid in the event of an accident caused by the handling of the product
 - j. Any matters prescribed by the regulations. Regulation 8AE(1) of the Agvet Code Regulations relevantly prescribes the following:
 - i. Regulation 8AE(1)(a) for a chemical product that is a veterinary chemical product, the duration of the treatment.
 - ii. Regulation 8AE(1)(b) the prevention of undue prejudice to trade or commerce between Australia and places outside of Australia.
 - iii. Regulation 8AE(1)(c) the appropriate signal words (if any) required by the current Poisons Standard.
 - iv. Regulation 8AE(1)(d) for a chemical product that is a date-controlled product, the storage of containers for the product.
 - Regulation 8AE(1)(e) any other matter determined by the APVMA CEO under regulation 8AE(2).
- 38) Section 5D(2) of the Agvet Code outlines the matters the APVMA must have regard to in determining whether a label meets the labelling criteria. These are:
 - a. any conditions to which its approval is, or would be, subject: see section 5D(2)(a);
 - b. any relevant particulars and instructions that are, or would be, entered in the relevant APVMA file for the label: see section 5D(2)(b); and
 - c. whether the label conforms, or would conform, to any standard made for the label under section 6E to the extent that the standard relates to matters covered by subsection (1): see section 5D(2)(c).

Consideration of whether the approved labels meet the labelling criteria

- 39) The APVMA has considered the current label instructions (as voluntarily varied by the registrant following the publication of the Preliminary Review Findings) to determine whether the current label contains adequate instructions as follows:
 - a. Section 5D(1)(a) the circumstances in which the product should be used.
 - i. The product is to be used as a herbicide for the control of barnyard grasses and silver top grass in rice crops in permanent water. This is acceptable.
 - b. Section 5D(1)(b) how the product should be used.
 - The product is applied by aerial application using Soluble Chemical Water Injection In Rice Technique (SCWIIRT) by helicopter or Bickley boom by aircraft at rates of 2.5 L and 3.75 L in 10 L of water and
 L in a minimum of 20 L of water per hectare by aerial application. As detailed in the *Final molinate*

Review Technical Report, the rates of application of 2.5 L and 3.75 L in 10 L of water are supported; however, the rate of 5.2 L in a minimum of 20 L of water per hectare is not supported as the higher rate result in unacceptable exposure to workers handling the product.

- ii. The product is not subject to spray drift restraints and the APVMA is **not satisfied** that the current use pattern ensures an acceptable level of exposure resulting from spray drift exposure to bystanders, natural aquatic areas or off target vegetation areas.
- c. Section 5D(1)(c) the times when the product should be used have been considered and remain appropriate.
 - i. The product is only to be applied to rice crops under permanent water.
 - ii. The product should be applied when barnyard grass is in the 1 to 4 leaf stage and silver top grass is up to the 2-leaf stage.
- d. Section 5D(1)(d) the frequency of the use of the product, is once per crop/season as the timing of the application is specific for the stage of the crop development. This assumption underpinned the safety assessment for the product and the label instructions are considered adequate to ensure that the product is only applied once per season.
- e. Section 5D(1)(e) the withholding period after the use of the product, is "Not required when used as directed", which remains appropriate given early application and the MRL set at the limit of quantification.
- f. Section 5D(1)(f) there is currently no re-entry period after the use of the product this was **not supported** as detailed in the *Final molinate Review Technical Report*.
- g. Section 5D(1)(g) and (h) the instructions for disposal of unused product and disposal of containers are appropriate for the type of containers used for the relevant products (i.e. plastic containers) and the instructions are consistent with the Agricultural Labelling Code. However only refillable containers are supported due to the increased worker exposure in disposal of non-refillable containers:
 - i. For refillable containers:
 - Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, feedstuffs, seed and fertilisers.
 - Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.
- h. Section 5D(1)(i) the safe handling of the product and first aid in the event of an accident caused by the handling of the product were considered and detailed in the *Final molinate Review Technical Report*.
 - i. The current exposure to users mixing and loading the product, and those applying the product was not supported based on current use instructions.
 - ii. The current safety directions, "May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing the spray wear elbow-length PVC gloves. If product on skin, immediately wash area with soap and water. After use and before eating drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing." were not supported on the basis of providing inadequate instruction as detailed in the Final molinate Review Technical Report.
 - iii. The current first aid instructions "If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26" were not supported on the basis of providing inadequate instruction as detailed in the *Final molinate Review Technical Report*.
- i. Section 5D(1)(j) any matters prescribed by the regulations (Regulation 8AE(1)).

- i. Regulation 8AE(1)(a) is not relevant as the products are agricultural chemical products.
- ii. Regulation 8AE(1)(b) the prevention of undue prejudice to trade or commerce between Australia and places outside of Australia. The current label does not include any specific instructions to prevent undue prejudice to trade or commerce between Australia and places outside of Australia. Given the history of use with no known residue related trade incidents, this is acceptable.
- iii. Regulation 8AE(1)(c) the appropriate signal words (if any) required by the current Poisons Standard. The product is designated as a Schedule 7 poison under the current Poisons Standard. As a Schedule 7 poison, the appropriate signal heading is "DANGEROUS POISON" and the label also requires the cautionary phrase "KEEP OUT OF REACH OF CHILDREN". As safety directions are required, the signal heading must also include the statement "READ SAFETY DIRECTIONS BEFORE OPENING OR USING". The current label meets these requirements.
- iv. Regulation 8AE(1)(d) The product is not a date controlled product, therefore specific storage requirements are not required.
- v. Regulation 8AE(1)(e) the APVMA CEO has not determined any other matter under regulation 8AE(2)(e).
- j. Section 5D(2)(a) the prescribed conditions for label approval (regulations 18B to 18J) currently apply to the label and will apply to the varied labels. These conditions are appropriate.
- k. Section 5D(2)(b) the relevant particulars and instructions to be entered into the relevant file for the label are appropriate.
- I. Section 5D(2)(c) this section does not apply as there is no standard made for this product under section 6E.

Conclusion of whether the labels meet the labelling criteria

- 40) The APVMA has identified that the current labels do not meet the labelling criteria in regards to the following:
 - a. How the product should be used, specifically the:
 - i. rate of application; and
 - ii. level of exposure resulting from spray drift exposure to bystanders, natural aquatic areas or off target vegetation areas.
 - b. The re-entry period after the use of the product.
 - c. The safe handling of the product, specifically:
 - i. exposure to users mixing and loading the product, and those applying the product;
 - ii. safety directions; and
 - iii. first aid instructions.
 - d. Disposal of the empty container

Consideration of whether the labels can be varied to meet the labelling criteria

- 41) If the APVMA is not satisfied under subsection 34(1), but is satisfied that the relevant particulars or conditions of the label approval can be varied in such a way as to allow approval to be affirmed, the APVMA must vary the relevant particulars or conditions.
- 42) The APVMA has determined that the labels particulars can be varied as follows to allow the labels to be affirmed:

- a. The label can be varied to limit the use of the product to application by fixed wing aircraft or helicopters using Soluble Chemical Water Injection In Rice Technique (SCWIIRT) at rates of 2.5 L and 3.75 L in 10 L of water per hectare.
- b. The label can be varied to include spray drift restraints, including buffer zones, to decrease the risk of an unacceptable level of exposure resulting from spray drift exposure to bystanders, natural aquatic areas or off target vegetation areas. The restraints are outlined in paragraph 25(c) and 25(d) above and included on the Sample label (Appendix C).
- c. The label can be varied to include a re-entry period to treated areas of 24 hours.
- d. The label can be varied to reduce the exposure to users who are mixing and loading the product and those applying the product. Label restraints can be included on the label to ensure that different workers undertake the mixing and loading to those who apply the product, and the amount of product handled per day can also be limited. The following restraints have been assessed as limiting the exposure to an acceptable level:
 - DO NOT use open mixing and loading systems (use closed mixing and loading only).

A single operator MUST NOT be involved in BOTH mixing/loading AND application in the same day.

A single operator involved in mixing/loading of the product MUST NOT handle more than 1,400 L neat product per day.

A single operator (pilot) MUST NOT apply more than 1900 L of neat product per day (equivalent to spraying an area of no more than 500 hectares per day at the maximum rate of 3.75 L/ha or no more than 750 hectares per day at the minimum rate of 2.5 L/ha).

e. The safety directions can be varied to be:

Harmful if inhaled or swallowed. May irritate the eyes and skin. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist. When mixing and loading for aerial spraying equipment wear cotton overalls buttoned to the neck and wrist and a washable hat, PVC or rubber apron, elbow-length PVC gloves and water-resistant footwear.

If applying by aerial spraying equipment, wear cotton overalls, buttoned to the neck and wrist (or equivalent clothing), and water resistant footwear.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

f. The First Aid instructions can be varied to be:

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (phone Australia 13 11 26) or doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed."

- g. Based on the limitation on the type of packaging due to exposure concerns, the instructions for the disposal of containers can be restricted to:
 - Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, feedstuffs, seed and fertilisers. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.
- 43) Section 34A(3) provides that if the variation would affect instructions for use on a label, the APVMA must not make the variation until it has consulted each co-ordinator designated for a jurisdiction and taken into account any recommendations made by the co-ordinators.

a. The products are only registered for use in NSW. The NSW coordinator has been consulted on the proposed label variations and made no recommendations.

Conclusion of considerations of labels

- 44) The label particulars for molinate chemical products can be varied to allow affirmation of the label approval under section 34(1) of the Agvet Code. The APVMA considers that if the label particulars are varied in accordance with Attachment C, then the label would contain adequate instructions relating to the matters in section 5D(1).
- 45) The varied relevant particulars of the molinate product labels listed in Attachment A, as set out in Attachment C, can be affirmed.

Conclusion

- 46) For the purposes of sections 34(1) and 34A(1) of the Agvet Code, and having regard to the matters set out above, the APVMA has determined that the APVMA is:
 - a. satisfied that the active constituent approvals listed in Attachment A meet the safety criteria;
 - b. not satisfied the molinate product registrations listed in Attachment A meet the safety criteria;
 - c. not satisfied the molinate label approvals listed in Attachment A meet the labelling criteria; and
 - d. satisfied that the particulars (and where mentioned, the conditions) of the product registrations and label approvals listed in Attachment A can be varied as detailed above and in Attachment C to allow the label approvals and the chemical product registrations to be affirmed.
- 47) Consequently, the APVMA has decided to:
 - a. AFFIRM the active constituent approvals listed in Attachment A;
 - b. VARY the chemical product registrations and the label approvals listed in Attachment A, as set out in Attachment C; and then
 - c. AFFIRM the listed chemical product registrations and the label approvals (as varied) in Attachment A.

Attachment C: Affirmed label

Signal Heading:	DANGEROUS POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Product Name:	[INSERT HERE]
Constituent Statement:	ACTIVE CONSTITUENT: 960 g/L MOLINATE
Mode of Action:	GROUP J HERBICIDE
Statement of Claims:	Post emergence control of grass weeds in rice in permanent water
Net Contents:	[INSERT HERE] [refillable containers only]
Directions For Use:	See directions for use section below. This can be uploaded as a separate section when submitting a label application

Withholding Period:	NOT REQUIRED WHEN USED AS DIRECTED
General Instructions:	For aerial application by SCWIIRT (Soluble Chemical Water Injection In Rice Technique) by helicopter or Bickley boom by fixed wing aircraft only
Resistance Warning:	[INSERT PRODUCT NAME] is a member of the thiocarbamates group of herbicides. [INSERT PRODUCT NAME] has the inhibitor of fat synthesis mode of action. For weed resistance management [INSERT PRODUCT NAME] is a Group J herbicide. Some naturally occurring weed biotypes resistant to [INSERT PRODUCT NAME] and other Group J herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by [INSERT PRODUCT NAME] or other Group J herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, [INSERT COMPANY NAME] accepts no liability for any losses that may result from the failure of [INSERT PRODUCT NAME] to control resistant weeds.
Precautions:	DO NOT use if pregnant
Re-entry period:	DO NOT allow entry to treated area for 24 hours.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS
AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses
with the chemical or used containers

Storage and Disposal:

STORAGE AND DISPOSAL:

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room away from children, animals, food, feedstuffs, seed and fertilisers.

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

Safety Directions:

Harmful if inhaled or swallowed. May irritate the eyes and skin. Repeated exposure may cause allergic disorders. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist. When mixing and loading for aerial spraying equipment wear cotton overalls buttoned to the neck and wrist and a washable hat, PVC or rubber apron, elbow-length PVC gloves and water resistant footwear.

If applying by aerial spraying equipment, wear cotton overalls, buttoned to the neck and wrist (or equivalent clothing), and water resistant footwear.

After use and before eating, drinking, or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves and contaminated clothing.

First Aid:

If swallowed, splashed on skin or in eyes, or inhaled, contact a Poisons Information Centre (phone Australia 13 11 26; New Zealand 0800 764 766) or doctor at once. Remove any contaminated clothing and wash skin

	thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.
Batch Number:	[INSERT HERE]
APVMA approval No:	[INSERT HERE]
Material Safety Data Sheet:	Additional information can be obtained from the material safety data sheet which can be obtained from the supplier.

DIRECTIONS FOR USE

RESTRAINTS

Under very cold conditions DO NOT apply to permanent water too early as crop may be drowned. A proportion of the first leaf must show above the water.

DO NOT apply by ground-based methods

DO NOT use open mixing and loading systems (use closed mixing and loading only).

A single operator MUST NOT be involved in BOTH mixing/loading AND application in the same day.

A single operator involved in mixing/loading of the product MUST NOT handle more than 1400 L neat product per day.

A single operator (pilot) MUST NOT apply more than 1900 L of neat product per day (equivalent to spraying an area of no more than 500 hectares per day at the maximum rate of 3.75 L/ha or no more than 750 hectares per day at the minimum rate of 2.5 L/ha).

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by helicopter unless the following additional requirements are met:

apply only by SCWIIRT (Soluble Chemical Water Injection In Rice Technique)

the release height is not greater than 2 metres above the ground

the flying speed is not greater than 50 knots (92 km/hr)

minimum distances between the application site and downwind sensitive areas that appear in the 'Mandatory downwind buffer zones' section of the table below are observed.

Buffer zones for Helicopter using SCWIIRT				
Application rate	Mandatory downwind buffer zones			
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas
2.5 L in minimum 10 L/ha water	10 metres	10 metres	0 metres	0 metres
3.75 L in minimum 10 L/ha water	15 metres	10 metres	0 metres	5 metres

DO NOT apply by fixed wing aircraft unless the following additional requirements are met:

apply only by Bickley boom

the release height is not greater than 3 m or 25% of wingspan above the ground whichever is the greatest

minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for fixed-wing aircraft using Bickley boom) are observed.

Buffer zones for fixed-wing aircraft using Bickley boom	
Application rate	Mandatory downwind buffer zones

	Bystander areas	Natural aquatic environments	Pollinator areas	Vegetation areas
2.5 L in minimum 10L/ha water	150 metres	85 metres	0 metres	30 metres
3.75 L in minimum 10 L/ha water	200 metres	110 metres	0 metres	45 metres

Directions for use						
CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS		
Rice – Permanent water Combine sown, sod sown and aerial sown rice	Barnyard Grasses (Echinochloa spp.) Silver top grass (Diplachne fusca)	NSW only	3.75 L in minimum 10 L/ha water	Apply when Barnyard grass in in the 1-4 leaf stage and Silver top is up to the two leaf stage. Weeds are usually 5-10cm high. NO MORE than one-third plant bulk should be above water at spraying, nor should more than one-third of the bay be covered by these plants. DO NOT allow movement of water through bays for 2 hours before spraying. ALLOW ONLY MINIMUM water movement through bays for 3 days after application. After this time normal water coverage should be maintained. DO NOT use if excess rice and weed vegetation will impede redistribution of [the product] in water resulting in inadequate control.		
	Barnyard Grasses (<i>Echinochloa</i> spp.) 0-2 leaf stage	NSW only	2.5 L in minimum 10 L/ha water	Coverage of the rice field with permanent water must be maintained after spraying. Water movement to and through bays should cease 2 hours before application. Minimum water movement should be maintained for 3 days after application. After this time normal water coverage should be maintained.		

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.