

## **NOTICE**

### **Preliminary Review Findings Part 2 of the Review of Registrations and Label Approvals Related to Carbaryl**

Carbaryl is a carbamate insecticide that is used for the control of insect pests in a broad range of agricultural and domestic situations, including stored grain, ornamentals, lawns, fruit and vegetables and around public buildings. To a lesser extent it is also used in the control of insects on domestic animals. Formulations of carbaryl include emulsifiable concentrates, suspension concentrates, aqueous concentrates, wettable powders, ready-to-use dusts, ready-to-use liquids and solid formulations.

The review of carbaryl is considering all products. After the release of the Draft Final Report (June 2004) the review was split into two sections (Part 1 including home garden, home veterinary, poultry and domestic uses and Part 2 including agricultural uses). This note relates to the preliminary review findings of the review of carbaryl for agricultural products. There are currently six registered products containing the active constituent carbaryl used in agricultural situations.

The APVMA, in accordance with Part 2, Division 4, of the Agvet Code, has reviewed the following aspects of product registrations and label approvals for Carbaryl:

- a) Toxicology, including:
  - the potential for products to cause acute and chronic toxicity, that could be an undue hazard to the safety of people exposed to it during its handling and could have an effect that is harmful to human beings;
- b) Residues in food, including:
  - the potential for carbaryl residues, in relation to existing temporary MRLs for cereals treated by field application or storage; and
  - the potential for acute and chronic dietary exposure to carbaryl residues in food commodities; and
  - the potential for consumption of carbaryl residues in food to exceed the ARfD, that may be an undue hazard to the safety of people exposed to its residues in food; and the potential for residues in animals likely to be fed on produce treated with carbaryl.

The APVMA also considered whether product labels carry adequate instructions and warning statements. The requirements for such instructions include:

- the circumstances in which the product should be used;
- how the product should be used;
- the times when the product should be used;
- the frequency of the use of the product;
- the withholding period after the use of the product;
- the disposal of the product and its container;

- the safe handling of the product.

### ***Preliminary Review Findings***

Following the review of carbaryl, the APVMA has found that the major concern with this chemical relates to:

- the potential risk of exposure to users from products containing carbaryl, that may be an undue hazard to the safety of people exposed to it during its handling and could have an effect that is harmful to human beings; and
- the potential for some uses of carbaryl to contain residues in fruit and vegetables that exceeds the safety threshold; and

In view of these findings, the APVMA is proposing to:

a) Vary the product registrations and label approvals as follows:

- Delete instructions of use for berry fruits (except raspberries), fruit general, citrus (except oranges and lemons), cherries, kiwi fruit, grapes (except butt treatment), sunflower and linseed crops and vegetable crops (except, potatoes, sugarbeets, beetroot and turnip (swede), and limited uses on cucurbits).
- Limit the uses for avocados, cucurbits, feijoa, guavas, grapes, jaboticaba, jackfruit, loquats, lychees, mangoes and rambutans to non-flowering/non-fruiting trees/plants.
- Retain uses for macadamias, pecans, pome fruit (apples & pears) stone fruit (except cherries), citrus (oranges & lemons), potatoes, raspberries, beetroot, turnips (Swede), sugarbeet, cereal crops & storage, cotton, dubosia, kenaf, lucerne, maize, pastures, pasture seed crops, rice, rosella, sorghum, elm trees, ornamentals, roses, commercial, industrial and domestic areas, tobacco storage sheds and rights of way and in non-crop areas in general.
- Retain uses for horses, ponies and dogs.
- Delete use of wettable powder formulations by handheld application to garden beds, compost heaps and treatment around buildings.
- Change the delivery method for wettable powder formulations.
- Delete use by hand-held spray equipment for pest control activities in domestic, commercial and industrial settings, except for the eradication of insect nests.
- Operators applying carbaryl by orchard airblast must be protected by appropriate engineering controls.
- Use of enclosed transfer/mixing systems for preparation of carbaryl suspension concentrate products is required to reduce the exposure of operators mixing and loading for aerial, boomspray and orchard airblast application to acceptable levels.
- Withholding Periods are to be amended.
- Re-entry periods to be established.
- Directions table for use on pigs to be changed to appear as a separate table.
- Warning Statements and Safety Directions are to be updated.

It is also recommended, that approved labels no longer marketed are to be cancelled since they are deemed not to contain adequate instructions.

b) Affirm product registrations

If the proposed label variations are made then the product registrations and label approvals of six products listed below can be affirmed.

Product Number	Product Name	Registrant	Label approval Numbers
32009	Nufarm Flowable Carbaryl 500 Insecticide	Nufarm Australia Limited	32009/0902
40143	Joseph Lyddy G-Wizz Insecticidal Dry Shampoo For Horses And Ponies	Waproo Pty Ltd	40143/0500
40145	Joseph Lyddy Y-Itch Animal Insecticide Bactericide	Waproo Pty Ltd	Ψ
40146	Bugmaster Flowable Insecticide	Bayer Cropscience Pty Ltd	40146/02
49326	Kendon Carbaryl Wettable Powder Insecticide	Kendon Chemicals & Mnfg Co Pty Ltd	49326/0400
52213	David Grays Carbaryl 500 Flowable Insecticide	David Gray & Co. Pty Limited	52213/0100

Ψ Label transitioned from the States and does not have an approval number.

### ***Summary of Recommendations***

The APVMA is satisfied that the conditions to which the registrations of six products are currently subject can be varied in such a way that the requirements for continued registration can be complied with and therefore recommends the variation of registrations and approvals.

It is then recommended that these variations to label instructions would satisfy the requirements for continued registration of products; hence six product registrations are proposed to be affirmed.

The APVMA's detailed preliminary review findings can be found in the APVMA Preliminary Review Findings report Part 2, available on the APVMA website - <http://www.apvma.gov.au>.

### ***Comment From The Public Is Invited***

The APVMA invites persons and organisations to submit their comments and suggestions on this Preliminary Review Findings report directly to the APVMA. Your comments will assist the APVMA in preparing the Review Findings report. Submissions clearly identify the issue and specifically addressing the areas of concern must be in writing and reach the APVMA by **31 August 2006**, by email to [chemrev@apvma.gov.au](mailto:chemrev@apvma.gov.au) or by mail to:

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