Brassica crop protection products
A guide to potential impacts on beneficials

Relative potential impact of Australian brassica industry crop protection products on beneficials and the environment

This quick reference guide is designed to assist you to choose effective crop protection products which minimise impact on beneficial insects in your crop and on the overall environment.

Always refer to the current product label and product registration documents before product application.

Note that when you apply and how you use a product may alter its’ potential impact. A preplant product application may differ in impact compared to applications at later stages of the crop.

The benefits and impacts of a product within an IPM program should be considered in your individual crop situation and growing environment.

Explanatory Notes

What do the rating figures mean?

These are not to evaluate the scale and level of overall environmental impact of all the products (which appears in the reference).

Note: some rating of moderate impact chemicals may appear high but this is due to the range of beneficials that the product group.

Impact on Beneficial Insects and Fungi

A moderate impact indicates that a range of biological control agents or and one range of beneficial fungi test species to the above products which appear in the reference list below).

Impact on Beneficial Insects

Australian data is based on test results exposing a range of beneficial insect test species to the above products (plants appear in the reference list below).

Impact on Beneficial Fungi

Australian data is based on test results exposing a range of beneficial fungi test species to the above products (plants appear in the reference list below).

How the Impact is measured

The Environmental Impact Quotient (EIQ) is a method to measure the environmental impact of these chemicals.

The formula for determining the EIQ value of each chemical or product is as follows:

EIQ = S + P + DT + DT * P

where:

- S is the plant toxicity
- P is the plant surface half-life
- DT is the beneficial arthropod toxicity
- B is bird toxicity
- SY is systemicity
- F is fish toxicity
- M1 is the fungicide impact for each chemical
- M2 is the fungicide impact for the product group
- M3 is the fungicide impact for the product formulation
- M4 is the fungicide impact for the product

The EIQ is calculated for each of the test species to the above product group.

The EIQ score represents the total environmental impact of these chemicals.

The Environmental Impact Quotient (EIQ) score ranges from 0 to 100 for each of the above product group.

For the International harmonisation of the scale, the EIQ score ranges from 0 to 100 for each of the above product group.

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For more information about DPI go to www.dpi.vic.gov.au or phone the Customer Service Centre on 136 186.

Disclaimer

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The content of this guide is based on the best available information at the time of publication. However, all information is subject to change and is not intended to be a substitute for the advice or recommendations of an expert. Any reliance on the information contained in this guide is at the user’s own risk.

The information in this guide is not intended to be exhaustive and does not purport to be inclusive of all such matters.

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