

Success<sup>®</sup> Neo

## Mango

## Information for Growers in Australia

Success<sup>®</sup> Neo is an insecticide which contains the active substance Spinetoram, a member of spinosyn insecticide (group 5 of the IRAC mode of action classification scheme) which has no cross-resistance with other classes of insecticides. Success<sup>®</sup> Neo is labelled for use on a variety of crops and is an essential tool to control numerous pests including Flower-eating caterpillars, Small mango tip borer (*Chlumetia euthysticha*), Large mango tip borer (*Penicillaria jocosatrix*), Leafrollers and loopers, Yellow peach moth (*Conogethes punctiferalis*), Red-banded thrips (*Selenothrips rubrocinctus*) and Sorghum head caterpillar (*Cryptoblabes adoceta*) in mango. Success<sup>®</sup> Neo may be used within an Integrated Pest Management program.

The Maximum Residue Levels (MRLs) and import tolerances (Table 1.) are established for the active ingredient, spinetoram, in many export markets. MRLs and import tolerances are standards set by government authorities. These values serve to indicate that a crop protection product is applied in accordance with the registered label and are set significantly below any toxicological threshold for dietary intake. In setting these standards, government authorities review large data packages, including field residue studies.

**Table 1.** MRLs and import tolerances for spinetoram in mango and estimated days between final application and earliest harvest

| Country            | MRL (mg/kg) <sup>1,2</sup> | Estimated time (days) between final application and earliest harvest to meet MRLs <sup>3</sup> |
|--------------------|----------------------------|--|
| Australia          | 0.3                        | See table 2  |
| Canada             | 0.1                        | See table 2  |
| Japan              | 0.3                        | See table 2  |
| Malaysia           | 0.01                       | See table 2  |
| Korea              | 0.05                       | See table 2  |
| Hong Kong          | -                          | See table 2  |
| China              | 0.1                        | See table 2  |
| USA                | 0.3                        | See table 2  |
| Codex <sup>4</sup> | 0.01                       | See table 2  |

<sup>1</sup> Information from bryanchristie.com for Mango – 10<sup>th</sup> July 2025

<sup>2</sup> Residue definition for monitoring purposes is given as **spinetoram (sum of spinetoram-J, spinetoram-L, N-demethyl and N-formyl metabolites) in Canada and in the USA**. Residue definition for monitoring purposes is given as **spinetoram (sum of spinetoram-J and spinetoram-L)** in other countries.

<sup>3</sup> It is important to always follow label directions, including minimum Pre-Harvest Interval (PHI) days. **Label GAP:** max rate 4x 48 g ai/ha for ground application, or 4 x 240 g ai/ha for aerial application, both with a 14-day retreatment interval (RTI).

<sup>4</sup> Codex MRLs may be accepted by many countries including Brazil, Colombia, Saudi Arabia and United Arab Emirates

To offer more details on the residue profile:

According to the Australian Pesticides and Veterinary Medicines Authority evaluation, based on the similarity in structures and similar metabolism, residue data for spinosad was extrapolated to spinetoram without the provision of further data.

However, residue data coming from residue trials performed with spinetoram at less critical GAPs (2-3 applications at 36-63.3 g ai/ha) are available. These data on mangoes were utilised to calibrate a predictive model to estimate residue behavior of spinetoram in mangoes. Results are reported in Table 2.

**Table 2:** Results of R-Cast Predictive Model for spinetoram.

| R-Cast Predictive Model Assessment from Regulatory Data <sup>1</sup>      |                           |                      |
|---|---------------------------|----------------------|
| Crop Detail Requested:  | Mango                     |                      |
| Residue Data <sup>2</sup>   | 7 Mango trials from India |                      |
| Desired Residue Level (mg/kg):  | <0.3                      |                      |
| Time estimated to reach desired residue (days) following last application | # of Applications         | Use rate (g ai / ha) |
| 0   | 4 (14d RTI)               | 48                   |
| 2   | 4 (14d RTI)               | 240                  |
| Desired Residue Level (mg/kg):  | <0.1                      |                      |
| Time estimated to reach desired residue (days) following last application | # of Applications         | Use rate (g ai / ha) |
| 1   | 4 (14d RTI)               | 48                   |
| 7   | 4 (14d RTI)               | 240                  |
| Desired Residue Level (mg/kg):  | <0.05                     |                      |
| Time estimated to reach desired residue (days) following last application | # of Applications         | Use rate (g ai / ha) |
| 3   | 4 (14d RTI)               | 48                   |
| 10  | 4 (14d RTI)               | 240                  |
| Desired Residue Level (mg/kg):  | <0.01                     |                      |
| Time estimated to reach desired residue (days) following last application | # of Applications         | Use rate (g ai / ha) |
| 10  | 4 (14d RTI)               | 48                   |
| 17  | 4 (14d RTI)               | 240                  |

<sup>1</sup> Please be aware that this information should only be used as an indication of residue behavior and that residue analysis will be required to confirm residues on any treated crop

<sup>2</sup> If applications are made prior to fruit formation, this estimation tool is incapable of predicting the resulting residues on the fruit.

# CoNNEXT

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## Precautions

- Growers should note that suitable MRLs and import tolerances may not be established in all markets for produce treated with Success® Neo.
- If you are growing produce for export, please confirm the latest information on MRLs, import tolerances, and residue definitions before using this product.
- Residue data are highly variable due to a large variety of agricultural practices and application technology. Growers that export treated crops should consider residue testing prior to shipment.
- Please contact your local sales representative for more information.

## For more information

Additional information regarding MRLs is available online on the following sites:

- USA: <http://www.epa.gov/pesticide-tolerances>
- Canada: <https://pr-rp.hc-sc.gc.ca/mrl-lrm/index-eng.php>
- Japan: <http://www.mhlw.go.jp/english/topics/foodsafety/positivelist060228/index.html>
- Korea: <http://www.mfds.go.kr/eng/index.do?nMenuCode=120>
- Hong Kong: <https://www.cfs.gov.hk/english/mrl/index.php>
- Codex: [Pesticides | CODEXALIMENTARIUS](#)  
[FAO-WHO](#)
- Global: [www.bryantchristie.com](http://www.bryantchristie.com)

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