

# ARE YOU AT RISK OF BEING OVER RUN?



## TYRANEX 500

### Stomp out Fruit Spotting Bug this season

- Reliable and robust chemistry
- Broad-spectrum insecticidal activity
- Low residual, short withholding periods
- Multiple new permits for use
- Developed for Australian conditions



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AUSTRALIA**

Agriculture Reimagined

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# TYRANEX 500

## MODE OF ACTION

Imtrade TYRANEX is a Group 1B insecticide that provides broad-spectrum insecticidal control across a range of pest genera. The active ingredient, trichlorfon, is an anticholinesterase compound that acts on target pests via action on the neurotic system. Trichlorfon binds to the active site of the enzyme cholinesterase, preventing the enzyme from breaking down acetylcholine in the nervous system. Acetylcholine is a neurotransmitter responsible for the generation of nerve impulses between the nerve and the receptor. By impeding the action of the cholinesterase enzyme, trichlorfon effectively induces an accumulation of acetylcholine between the nerve and receptor leading to the disruption of the central nervous system, resulting in the death of the target pest. <sup>(1)</sup>

## WHY USE TYRANEX?

When used as directed, Imtrade TYRANEX provides robust control of a broad range of insect pests, including fruit fly, across a wide range of broad-acre and horticultural cropping situations.

- **Reliable and robust** - Trichlorfon is one of a dwindling group of proven organophosphate options, considered one of the only alternatives reliable and robust enough to replace restricted dimethoate and banned fenthion actives.
- **Broad spectrum control** - Trichlorfon provides effective insecticidal knockdown control of a broad range of pests. This includes hard-to-kill soil-borne, Lepidopteran and Hemipteran pests.
- **New permits** - Trichlorfon has recently been granted special use and minor permits for the control of fruit fly and other insect pests across a range of new horticultural cropping situations following the restriction of other efficacious actives.
- **Low residual** - Trichlorfon exhibits rapid environmental breakdown post application and invertebrate knockdown. This translates to short withholding periods, which allows for increased flexibility and confidence around application and harvest timings.



## USING IMTRADE TYRANEX

- **Read the label** - Always read the label when considering Imtrade TYRANEX for your insecticidal control needs. Take due consideration to the PPE and OH&S requirements for its use.
- **Monitor the crop** - As a short residual, non-systemic active, the application timing is critical for obtaining good control with Imtrade TYRANEX. Spray when target pests are reaching threshold numbers, or when fruit fly adults are being seen in pheromone traps.
- **Resistance management** - Where possible, always consider rotating through multiple modes of action when routinely spraying crops for target pests. A well considered plan will aid in the management of insect resistance into the future and ensure insecticidal chemistries are efficacious for years to come.

(1) Canadian Council of Ministers of the Environment. 2012. Canadian water quality guidelines for the protection of aquatic life: Trichlorfon. In: *Canadian environmental quality guidelines, 1999*, Canadian Council of Ministers of the Environment, Winnipeg.

PERMIT #	ACTIVE	SITUATION/USE	EXPIRY DATE
PER13689	Trichlorfon	Macadamia nuts / fruit spotting bug banana bug, green vegetable bug	30 September 2016
PER13353	Trichlorfon	Mustard / multiple pests	31 March 2017
PER14683	Trichlorfon	Stone fruit & guava / Mediterranean fruit fly	31 May 2017
PER9941	Trichlorfon	Cherries / Fruit Flies	31 March 2020
PER80542	Trichlorfon	Cherries / Fruit Flies	31 March 2020
PER14743	Trichlorfon	Custard Apple, Lychee, Mango & Persimmon / Various Insect Pests	30 June 2020
PER80717	Trichlorfon	Eggplant, Thai eggplant, Pepino & Cape gooseberry / Fruit fly	31 October 2020
PER12450	Trichlorfon	Specified Fruit crops / Fruit fly	31 January 2021
PER12439	Trichlorfon	Table grapes / Fruit Fly	31 May 2021
PER12486	Trichlorfon	Specified berry fruit / Fruit Fly	31 May 2021

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