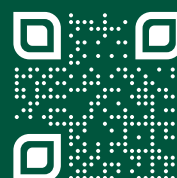


Hi-Cane Usage Controls



Following the 2024 EPA reassessment of Hi-Cane, the usage controls have been updated. These are outlined below.



SCAN FOR
MORE INFO

- **One** application can be made per calendar year. The **maximum** application rate for **kiwifruit** is **25kg of hydrogen cyanamide/ha** (equivalent to 6% in 800L of water/ha). For **all other fruit crops** the **maximum** application rate is **16.9kg of hydrogen cyanamide/ha**.
- **Buffer zones** must be put in place to protect bystanders, the aquatic environment and non-target plants downwind. (See reverse for specific buffer zone information).
- **Application** is limited to **ground-based** methods. Only appropriate mixtures of hydrogen cyanamide and water combined with nozzles and/or adjuvants that produce a **coarse or larger droplet size** can be used.
- The **label** must have the following:
'WARNING: Very toxic to some plant species. Certain plants may be damaged or killed from contact with Hi-Cane. Hi-Cane should not be applied within a specified distance of a downwind area containing any non-target plants, the distance varies per use pattern. Before application, users should be aware of any wetlands, indigenous vegetation habitat areas, or reserves that may contain threatened plants adjacent to the application area, in which case it is recommended to increase the buffer zone. The distance varies per use pattern. See buffer zone section for further information.'
- Hi-Cane must be applied when **wind speeds are less than 20km/h** as measured at the application plot and when there is no air temperature inversion layer.
- Spraying is restricted to between **1 July and 10 September** inclusive.
- The Hi-Cane **label** includes the following:
'WARNING: In combination with alcohol Hi-Cane may produce a severe unpleasant temporary reaction known as 'cyanamide flush'. **Do not drink alcohol** for 24 hours before and up to 7 days after using Hi-Cane. Symptoms of Poisoning: 'Cyanamide flush' — skin flushing, dizziness, headache, shortness of breath, rapid pulse.
- **Users** are now required to have the **qualifications** required for an agrichemical that has the hazard classification 'Hazardous to the aquatic environment acute Category 1 or chronic Category 2'. (See next page for specific qualification requirements).
- The **soluble concentrate** classification (approval number HRC000001) is changed from skin and eye irritant to **skin and eye corrosive**.
- The specific target **organ toxicity classification** is changed from Category 1 to **Category 2**.
- Hydrogen cyanamide is now classified as **hazardous to soil organisms**.

Nufarm is committed to the ongoing stewardship of Hi-Cane to support the wellbeing and success of New Zealand kiwifruit www and the economy and supports the additional controls.

Fruitfed Supplies

Buffer Zones

Bystander Buffer Zones:

USE PATTERN DESCRIPTION	DOWNWIND BUFFER ZONE
Kiwifruit $\leq 25\text{kg ai/ha}$ – air blast	6m (with shelter*) 8m (without shelter)
Apple $\leq 16.9\text{kg ai/ha}$ – air blast	10m

Aquatic Environment Buffer Zones:

USE PATTERN DESCRIPTION	WATERBODY DOWNWIND BUFFER ZONE	WATERBODY RUN-OFF BUFFER ZONE
Kiwifruit $\leq 25\text{kg ai/ha}$ – air blast	6m (with shelter*) 10m (without shelter)	< 5% slope: 10m 5–10% slope: 15m > 10% slope: 20m
Apple $\leq 16.9\text{kg ai/ha}$ – air blast	45m	< 5% slope: 0m 5–10% slope: 10m > 10% slope: 15m

Non-Target Plant Downwind Buffer Zones:

USE PATTERN DESCRIPTION	DOWNWIND BUFFER ZONE – NON-THREATENED SPECIES	DOWNWIND BUFFER ZONE – THREATENED SPECIES
Kiwifruit $\leq 25\text{kg ai/ha}$ – air blast	6m (with shelter*) 10m (without shelter)	15m
Apple $\leq 16.9\text{kg ai/ha}$ – air blast	30m	50m

*Shelter may be in the form of planted trees or artificial materials at the boundaries of an application plot and must have been shown to form a barrier that can reduce spray drift by 80%.

Qualifications

A person mixing, loading or otherwise handling Hi-Cane in preparation for it to be applied must be a Qualified Loader.

A contractor must be a Qualified Contractor to apply Hi-Cane.

A person other than a contractor using ground-based application methods must be a Qualified Person to apply Hi-Cane.

The qualifications required include relevant strands of the Rural Contractors New Zealand's Registered Chemical Applicator Accreditation, relevant GROWSAFE® certificates and relevant Unit Standards of the NZS 8409:2004 For the Use of Agrichemicals.

Full details can be found in sections 60, 63 and 64 and Schedule 10 in the EPA Hazardous Property Controls Notice.

Fruitfed Supplies