HAZARD CLASSIFICATION:
6.1C, 6.3A, 6.4A, 6.5B, 6.8B, 6.9A, 9.1D, 9.3B, 9.4C
APPROVED HANDLER:
This product must be under the personal control of an approved handler or secured.
TRACKING:
Location and movement of this product must be recorded at each stage of its life cycle.
This product must not be used for any purpose, or in any manner, contrary to this label unless authorised under appropriate legislation.

TOXICITY
- Toxic – may be fatal if swallowed, inhaled or absorbed through the skin. May cause organ damage from repeated oral exposure.
- Harmful – **Severely irritates skin and eyes** and may cause sensitisation from prolonged skin contact. May cause reproductive/development damage from repeated oral exposure.
- 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.**

ECOTOXIC
- Harmful to aquatic organisms. Avoid contamination of any water supply with product or empty container.
- Toxic to terrestrial vertebrates. Do not allow animals to come into contact with spray mist or tank washings. **Dogs appear particularly sensitive to Hi-Cane poisoning and must be restrained away from any spray operation.** Non-grazing animals should not be exposed to residues on grass for three days and grazing animals for seven days.
- Toxic to bees. Spray must not contact plants in flower if they are likely to be visited by bees.
- **Beware: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.** *Casuarina* spp., lemons, tamarillos and gum trees are very susceptible. Do not allow drift to occur outside the target area.

HANDLING PRECAUTIONS
STORAGE
- Store in original container, tightly closed and in a locked, dry, dark, cool (15 degrees C or less) area away from sunlight, feed, seeds and foodstuffs. If stored from one season to the next store at 4 degrees C in a cool store. When stored appropriately this product should show no significant degradation for 18 months from the date of manufacture. Store in accordance with NZS 8409 Management of Agrichemicals.
- Stores containing 100 litres of Hi-Cane require secondary containment, more than 100 litres require emergency response plans, and 1000 litres require signage.

PERSONAL PROTECTION
- Do not apply this product in a manner that will directly, or through drift, expose workers or other persons. Remove unprotected persons from the operating area.
- Avoid contact with skin and eyes and avoid breathing spray mist. When mixing or applying wear full protective clothing such as a PVC spray suit or leggings, elbow length PVC gloves, boots, eye protection and a NIOSH approved respirator with combination filter for vapour/particles. Wash splashes of concentrate or spray solution from skin immediately. Wash protective clothing daily after work. Remove protective clothing and wash hands and face thoroughly before meals and after work.
- Where workers are in contact with kiwifruit canes within five days of spraying, gloves should be worn.

EQUIPMENT
- Apply using accurately calibrated and well maintained equipment. To minimise corrosion flush sprayer and hose down equipment with plenty of clean water at the end of each day's spraying. Do not leave material standing in the spray tank overnight.

DISPOSAL
- Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator if circumstances, such as wind direction, permit. Otherwise crush and bury in a suitable landfill or, if appropriate, recycle.
- Dispose of product only by using according to the label, or dilute and pour onto agricultural land as a nitrogen source.

Symptoms of Poisoning: 'Cyanamide flush' – skin flushing, dizziness, headache, shortness of breath, rapid pulse. Severe skin or eye irritation.
First Aid: If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water. If inhaled move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped.
Spillage: Isolate spill area. Wear appropriate protective clothing and prevent material from entering waterways. Contain liquid spills, absorb with inert material and place in waste containers. Flush spill area with water and absorb with further inert material. Dispose of waste safely in a suitable landfill.
Transport: Do not carry this product on a passenger service vehicle.
Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept.
Compatibility: Do not mix with other pesticides.
Mixing: Add the required amount of Hi-Cane to the half-filled spray tank. Add the remainder of the water and agitate thoroughly before and during spraying.
DIRECTIONS FOR USE:
KIWIFRUIT:
General: Hi-Cane can cause the following beneficial effects on kiwifruit, particularly useful in orchards which receive inadequate winter chilling.
(1) An improved uniform budbreak.
(2) An increased number of floral shoots and higher flower number, giving a significant yield increase.
(3) A short (4-7) day flowering period, ideal for spray pollination.
(4) An advanced flowering in one part of the orchard to better fit the management programme (e.g. male vines may be treated to supply early pollen for artificial pollination).
(5) A reduction in the number of doubles and trebles.
(6) Hi-Cane gives good control of green algae and lichen.
(7) Assist in the control of greedy scale.
Hi-Cane misuse may result in the following adverse effects on kiwifruit.
(1) Frost damage to new growth. Do not use in orchards subject to late frosts, as damage will be greater where budbreak has been advanced.
(2) Cane damage. Death of individual buds, spurs, or whole canes has been associated with higher than recommended rates of use, high water rates applied to run-off, or application under slow drying conditions. Ensure application equipment is accurately calibrated and that recommended rates of use are not exceeded. Avoid spray drift from one row to the next. If damage occurs reduce rate of use/water rate in the following season. Damage is more likely to occur following cold winters or in colder areas of the orchard. In such circumstances reduce the rate of use, or do not use.
Do not apply to weak vines, or vines with broken or green cane. Do not use oil sprays prior to applying Hi-Cane. Stubbing, if carried out, should be completed by the end of October and male vine pruning completed by Christmas.
(3) Poor fruit pollination. Ensure sufficient bees and/or artificial pollination to adequately pollinate an increased number of blossoms, flowering over a short period.
(4) Overcropping and fruit size reduction. As the use of Hi-Cane may significantly increase crop load, good management (e.g. crop thinning, ample water and fertiliser) is essential to optimise export yield in the desirable size counts.
Rates of Use:
Use 4-6 litres Hi-Cane per 100 litres of water.
Use the highest concentration at the beginning of the application period. A lower concentration within the recommended range may be used as the application period progresses.
To minimise damage use lower rates after a cold winter or in cooler areas of the orchard (shaded, frost pockets). Apply as a fine spray mist to give complete coverage. Spray all dormant buds or effects will be uneven. Ensure the spray reaches into the central leader and covers the inner canopy. Accurately calibrated airblast sprayers are recommended.
DO NOT SPRAY TO RUN-OFF AND MINIMISE DRIP POINTS.
On mature vines apply 500-700 litres spray volume per hectare.
Do not exceed 800 litres spray volume per hectare.
The addition of a non-ionic wetting agent is recommended to improve coverage.
DO NOT APPLY UNDER SLOW DRYING CONDITIONS AS VINE DAMAGE MAY OCCUR. (e.g. Under high humidity; before 9:00am if dew is present, or after 4:00pm in shaded parts of the orchard; or during periods when cold frosty nights occur).
Rainfall occurring within 4 hours of treatment may reduce efficacy.
Timing of Application:
(i) Var. Hayward. Apply Hi-Cane in the period between the last week of July and the 24th of August. Applications after this time have more risk of cane damage in a normal year, but may be effective in a very mild winter when budbreak is naturally delayed. The optimum timing is normally the second week of August. Applications towards the beginning of the recommended time period may be less effective, especially in a mild winter and in areas of low winter chilling.
(ii) Var. Hort 16A (Zespri Gold). Normally apply mid-late July. In a very mild winter applications during late July to the first week of August may be more effective.
APPLES
General: Hi-Cane may be applied to apple trees to obtain the following effects.
(i) Advanced budbreak and a compressed earlier flowering period. Flowering can be advanced to improve the synchrony of flowering between varieties to achieve better cross pollination. Larger and more uniform fruitlets allow thinning sprays to be timed earlier and more accurately. An earlier flowering reduces the fireblight risk, but may increase the risk of frost damage.
(ii) Advanced harvest date, especially in early varieties in warmer regions. Fruit may be ready for harvest 7-10 days early. If temperatures are especially warm at harvest, red colouration may be compromised by an early harvest date.
Directions For Use: Use 2.5 litres Hi-Cane per 100 litres of water, in 800-1300 litres of water per hectare depending on tree size. Apply as a fine spray mist to give complete tree coverage. Treatment should be made 30-45 days before the natural budbreak (50% greentip on spurs) of each variety. Applications farther out from natural budbreak will have a greater effect on advancing budbreak and flowering, but may reduce the level of budbreak and flowering. Do not apply closer than 25 days before budbreak. Warm temperatures in the three days following application improve the response.

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CONDITIONS OF SALE:
CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER
If you open this container you will be deemed to have accepted the conditions below.
The results from use of this product may be affected by factors beyond Nufarm's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Nufarm will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law, all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded.
When you use this product, you agree that neither Nufarm Limited nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Nufarm Limited or any supplier or manufacturer of the product or any of their employees and agents.

PROPER SHIPPING NAME	HAZARD CLASS	UN No.	HAZCHEM	PACKING GROUP
CORROSIVE LIQUID, TOXIC, N.O.S. (hydrogen cyanamide 52%)	8, 6	2922	2WE	III

Marketed by:
Nufarm Limited
6 Manu St, Otahuhu
Auckland, NZ
Telephone 0-9-270 4157
Fax 0-9-270 4159

Batch No:
D.O.M.:

Expiry: 18 months from date of manufacture.

Nufarm Emergency Phonelink: 0800 651 911 toll free 24 hours

TOXIC - ECOTOXIC

KEEP OUT OF REACH OF CHILDREN

Hi-Cane®

Active ingredient: 520g/litre hydrogen cyanamide in the form of a soluble concentrate.

A plant growth regulator which promotes uniform budbreak and flowering of kiwifruit, and earlier concentrated flowering of apples.

AGRECOVERY

9 414614 445613

Net: 20 Litres

Nufarm

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