

DANGER:

Keep out of reach of children.
Please read label completely before use



CYAN™



 **BUD BREAKER**

grochem®

SPECIMEN

CYAN™ is a plant growth regulator used for increased budbreak and flowering of kiwifruit and flower synchronization of apples.

Active Constituent: Contains 530g/litre hydrogen cyanamide in the form of a soluble concentrate.

Batch number:

Date of Manufacture:

Expiry Date:

Registered pursuant to the ACVM Act 1997, No. P7190
See www.foodsafety.govt.nz/ for registration conditions.
Approved Pursuant to the HSNO Act 1996,
Approval code HRC000001
See www.epa.govt.nz for approval controls.

20L

NET CONTENTS

PROPER SHIPPING NAME:
Toxic Liquid, Organic, NOS. UN No. 2810



9 421026 171023 >

DANGER: Toxic if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful if inhaled. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. When handling, wear full protective clothing such as impervious gloves, respirator, waterproof hat, coat and trousers (worn outside rubber boots). Do not eat, drink or smoke while using this product.

Toxic to bees. Spray must not contact plants in flower visited by bees. Harmful to aquatic life with long-lasting effects. Avoid contamination of any water supply with product or empty container. Harmful to the soil environment. Harmful to terrestrial vertebrates. Harmful to terrestrial invertebrates.

This product MUST NOT be used for any purpose or any manner contrary to this label.

FIRST AID: If medical advice is needed, have product container or label at hand.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/Doctor.

IF ON SKIN (or hair): Take off immediate all contaminated clothing. Rinse skin with water (or shower). If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTRE/Doctor.

Symptoms of Poisoning: Irritation of mucous membranes, severe dermatitis on moist skin, skin flushing ("Cyanamide flush"), headache, dizziness, shortness of breath and rapid pulse.

24-hour Emergency Telephone Number – for advice contact the National Poisons Centre – 0800 POISON (0800 764 766) – or a doctor, immediately.

For specialist advice in an emergency only, call **0800 CHEMCALL (24hrs)** or **0800 243 6225**
In a transport emergency dial 111

DIRECTIONS FOR USE

RESTRAINTS

DO NOT consume alcohol the day before or up to seven days after applying CYAN™. In combination with alcohol, a severe temporary reaction known as "cyanamide flush" may be produced. Symptoms of cyanamide flush include skin flushing, dizziness, headache, shortness of breath and a rapid pulse.

DO NOT apply in conditions where spray drift is uncontrolled. Spray drift can cause serious damage to other desirable plants.

DO NOT spray to run-off and minimize drip points.

DO NOT apply under slow drying conditions as damage may occur (e.g. under high humidity; before 9.00am if dew present; or after 4.00pm in shaded parts of the orchard; or during periods when cold frosty nights occur).

WARNING: Orchards subject to late frost should not use CYAN™. Damage will occur where budbreak has been advanced.

WARNING: CYAN™ will inhibit herbicidal effects. Avoid spillage or drift on to desirable plants. Casuarina spp, lemons and gum trees are very susceptible.

The following HSN0 approval controls are required:

For kiwifruit, the maximum application rate for this substance, as specified by the Authority in accordance with clause 50(1) of the Hazardous Property Controls Notice, is 25 kg of hydrogen cyanamide active ingredient/ha, with a maximum application frequency of one application per calendar year.

For kiwifruit, apply 500-700 litres of spray solution/ha to mature vines. Do not exceed 800 litres of spray/ha.

For apples, the maximum application rate of this substance, as specified by the Authority in accordance with clause 50(1) of the Hazardous Property Controls Notice, is 16.9 kg of hydrogen cyanamide active ingredient/ha, with a maximum of one application per calendar year.

For apples, Use 800-1300 litres of spray solution/ha as determined by tree size.

A person may apply this substance only during the period from 1 July to 10 September (inclusive of those dates).

A person applying this substance must ensure that the substance is only applied via ground-based methods using nozzles and appropriate mixtures of hydrogen cyanamide, water, and/or adjuvants that will produce a coarse or larger droplet size as defined, for example, in ISO 25358:2018 Crop protection equipment, droplet-size spectra from atomizers.

A person applying this substance must ensure that the substance is not applied when wind speeds are more than 20 km/h as measured at the application plot or when there is an air temperature inversion layer.

WARNING: The substance may not be compatible with integrated pest management (IPM).

WARNING: Very toxic to some plant species. Certain plants may be damaged or killed from contact with this product. The substance 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.

GENERAL INSTRUCTIONS

Apply to give complete coverage using a fine spray mist. All dormant buds should be sprayed evenly.

Read carefully and follow all instructions.

Obtain special instructions before use.

TRACKING AND HANDLING: CYAN™ is required by legislation to be tracked throughout its lifecycle. All handlers must keep written records of product movement and application.

This product must be under the control of a Certified Handler or stored under lock and key at all times. Neighbours should be advised of plans to spray and advised of contacts (Local council and Kiwifruit Growers Industry as appropriate).

STORAGE: Store in original container tightly closed, away from foodstuffs, and under lock and key. Ensure free circulation of air around containers in stack. Protect from direct sunlight. Store at 4°C in a coolstore if CYAN™ is to be used the following season. Do not store longer than 1 year.

Quantities greater than 100L must be held within secondary containment. Areas that are used to store quantities greater than 1000L require signage in accordance with Hazardous substance regulations

DISPOSAL:

- Dispose of product only by using in accordance with label directions.
- Triple rinse empty drums thoroughly with water and drain rinse water into the spray tank. Do not cut, puncture or weld near unrisin empty drum. Do not reuse drum for other purposes. Rinsed drums should be recycled with an approved recycling program eg Agrecovery, or otherwise punctured and immediately buried in an appropriate landfill.

EQUIPMENT: Apply using accurately calibrated and maintained equipment in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).

SPILLAGE: Isolate spill area. Wear protective clothing. Do not breath mist/spray. Spills should be absorbed with sawdust, clay or sand, followed by disposal at a sanitary landfill. Rinse spill area with excess water.

TRANSPORT: Maximum of 0.1L may be carried on a passenger service vehicle.

SAFETY DATA SHEET: A Safety Data Sheet (SDS) for CYAN™ is available from ADAMA New Zealand Limited on request.

CONDITIONS OF SALE: Grochem®, a brand of ADAMA New Zealand Limited (Grochem) will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of Grochem is limited to the replacement of the goods or (at the option of Grochem) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Grochem within thirty days of delivery.

REGISTERED TO: ADAMA New Zealand Ltd.

DISTRIBUTED BY:

Grochem, a brand of ADAMA New Zealand Limited

Level 1, 93 Bolt Road, Tahunanui, Nelson 7011. PO Box 1799, Nelson 7040, New Zealand.

Telephone 0800 447 624 Email: grochem@grochem.com www.grochem.com

CYAN™ is the trademark of ADAMA New Zealand Limited.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust, fume, gas, mist, vapours or spray.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Remove protective clothing and wash hands and face with soap and water before meals and after work. Wash protective clothing daily. Take care when applying this product. Avoid exposure of workers or other persons through drift. Unprotected persons must vacate the area being treated. Gloves should be worn if workers are in contact with kiwifruit canes within five days of spraying.

Toxic to bees. Spray must not contact plants in flower visited by bees. Do not allow animals to come into contact with spray mist or tank washings. Dogs are sensitive to CYAN™ poisoning and must be removed from the spraying operation. Non-grazing animals should not be exposed to residues on grass for three days.

Grazing animals should not be exposed to residues on grass for seven days. Prevent contamination of any water supply. Disposal of empty container in accordance with disposal instructions.

Wetting Agent: A non-ionic wetting agent may be used to improve coverage.

Rainfall: Effectiveness may be reduced if rain falls within 4 hours following treatment.

Compatibility: Do not mix with other agrichemicals. Spray clean-up: Thoroughly flush sprayer with clean water after use to avoid corrosion.

| CROP | RATE AND TIMING | CRITICAL COMMENTS |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kiwifruit <ul style="list-style-type: none"> Increased and even budbreak Condensed flowering period. Increased flower numbers leading to a larger yield. Fewer doubles and trebles. Control of algae, lichen and assist in the control of greedy scale. | <p>Use 4-6 litres/100 litres of water.</p> <p>Apply to give complete coverage using a fine spray mist. Higher concentrations should be used at the beginning of the application period and lower concentrations in the later part of the application period. Lower rates should be used after colder winters.</p> <p>(a) Var. Hayward. Apply in the period between the last week of July and the 24th August. Do not apply after this time. The optimum application timing is the second week of August. Applications towards the beginning of the recommended time period may be less effective in some seasons. Budbreak will typically occur 30-40 days after treatment.</p> <p>(b) Var. Hort 16A (Zespri Gold). There is limited experience with this variety. It is suggested that optimum timing is mid-late July. Applications during late July and early August may be effective in mild winter conditions.</p> | <p>Misuse of CYAN™ can produce adverse results in kiwifruit. Good management practice is necessary to optimize export yield of the desired size counts, as CYAN™ can significantly increase crop load.</p> <p>Canes can be damaged with use of higher than recommended rates of use.</p> <p>Damage may occur under slow drying conditions or when applied to run-off.</p> <p>Following cold winters damage may occur if rates are not reduced. Rates should be reduced the following season if damage has occurred. Avoid spray drift across rows.</p> <p>Spray must reach the central leader and cover the inner canopy.</p> |
| Apples <ul style="list-style-type: none"> Earlier and even budbreak. Condensed flowering period. Earlier harvest date. Harvest may be advanced by 7-10 days. | <p>Apply to give complete coverage using a fine spray mist.</p> <p>Apply 2.5 litres/100 litres of water.</p> <p>Apply 30-45 days before natural budbreak. Budbreak and flowering will be earlier, but at a reduced level, if applied further out from natural budbreak.</p> <p>DO NOT apply within 25 days of natural budbreak.</p> | <p>Increased risk of frost damage in cases of late frost and early budbreak.</p> <p>Earlier harvest may not allow red colouration to fully develop.</p> |