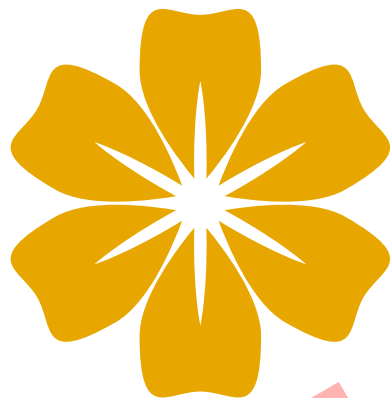


DANGER
KEEP OUT OF REACH OF CHILDREN



ETHIN™

PLANT GROWTH REGULATOR

FOR BLOOM THINNING, VIGOUR CONTROL, COLOUR ENHANCEMENT AND RETURN BLOOM ENHANCEMENT IN APPLES AND RIPENING TOMATOES, EARLY APPLES AND KIWIFRUIT. ALSO FOR THE SUPPRESSION OF ANNUAL POA SEEDHEAD IN TURF.

grochem

Contains: 480g/L chlorethephon in the form of a soluble concentrate

PROPER SHIPPING NAME:
Corrosive Liquid, Acidic Organic, NOS
UN No. 3265



NET CONTENTS
20L

GCETH/0322

MANUFACTURED & DISTRIBUTED BY: AgriNova NZ Ltd,
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Email: grochem@grochem.com
www.grochem.com



ETHIN

PLEASE READ LABEL AND SAFETY DATA SHEET COMPLETELY BEFORE USE

Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Harmful to the soil environment.

This product must be under control of a certified handler during use.

PRECAUTIONS:

PERSONAL PROTECTION: Wear protective gloves/protective clothing including eye/face protection and suitable respirator. Do not breathe dust, fume, gas, mist, vapours or spray. Wash face, hands and all exposed skin thoroughly after handling. Avoid release to the environment. Do not eat, drink or smoke while using.

STORAGE: Store in original container tightly closed and in a locked dry, cool, well ventilated area, away from foodstuffs. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of this product if it is older than this.

SPILLS & DISPOSAL: When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain the spill by damming, recover spilt product by absorbing with sawdust or an inert absorbent material then transfer the recovered spilt material to a properly labelled drum. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

DISPOSAL: Dispose of this product only by using according to the label or at an approved landfill. Avoid contamination of any water supply with product or empty container.

Container Disposal: Triple rinse container and add residue to mixture. Deliver to an appropriate recycling centre (eg Agrecovery) or crush and bury in a suitable landfill.

SAFETY DATA SHEET: A Safety Data Sheet (SDS) for Ethin is available from www.grochem.com or Agrinova NZ Ltd on request.

FIRST AID: Immediately call a POISON CENTRE/doctor/appropriate source of emergency medical advice. If medical assistance is needed, have container or label at hand.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower). Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

For advice, contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor immediately.

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

CONDITIONS OF SALE: As no control can be exercised over the manner in which or the conditions under which this product is used, all conditions and warranties expressed or implied, other than those required by statute are excluded. No responsibility will be accepted for any damage or injury whatsoever arising from the storage, handling, application or use of this product.

Approved under the HSN0 Act 1996, HSR000804. See www.epa.govt.nz for approval conditions. Registered pursuant to the ACVM Act 1997, No P7665. See www.foodsafety.govt.nz for registration conditions.

DIRECTIONS FOR USE:

WETTER: The addition of a nonionic wetter (such as Spray Aid) at label rates is recommended for all applications.

SPRAY TANK PH: optimum performance is obtained with a spray solution between 5.0 – 5.5 pH. A buffering agent such as Buff-It™ may be added at label rates to adjust water pH. Alkaline water.

MIXING: Ethin mixes readily with water. Accurately measure out the recommended quantity. Add measured product to partly filled spray tank. Agitate while adding remaining water to tank.

A non-ionic wetter such as Spray Aid™ at label rates is recommended with all applications.

APPLICATION: Ensure spray equipment is clean and well calibrated to give even coverage. Flush equipment thoroughly with clean water before and after use. The following rates are for dilute application to run-off. Thorough wetting of all parts of target plants is required (unless otherwise stated).

WITHHOLDING PERIOD: Do not harvest apples, tomatoes and kiwifruit within 7 days of the last treatment.

APPLICATION RATES

CROP	USE	TIMING	RATE	CRITICAL COMMENTS
Apples – Early apples	Colour promotion and uniform maturity in early apples.	1–2 weeks before expected harvest	40–60ml /100L of water	Apply as a high volume spray to the entire tree. Pick apples when ripe. To prevent fruit drop it is essential to add a stop drop material such as NAA (10–20ppm) to the spray tank. To advance harvest up to two weeks Ethin may be applied up to 5 weeks before the normal harvest date.
Apples – Red and partial red varieties	Colour promotion	See critical comments	200ml per ha	Apply as a high volume spray to the entire tree. Apply first application six–seven weeks prior to anticipated harvest date and a second application four weeks prior to anticipated harvest date. Apples maturity (SPI) will be advanced, be prepared to harvest earlier.
Apples	Bloom thinning and return bloom enhancement	See critical comments	21–42ml /100L of water	For use on varieties susceptible to biennial bearing such as Braeburn, Pacific Rose™, Pacific Beauty™ and Fuji. Apply with 250ml of Spray Aid per 100L of water. Apply as a dilute spray to thoroughly wet the tree. Apply at or just prior to full bloom on clusters. Optimum thinning will occur at maximum daily temperature of 19°C. Temperatures above this may result in excess thinning. Avoid application under cool, frosty, or slow drying conditions that may stimulate fruit russet. Single treatment may not provide adequate thinning and use of other thinning chemicals may be required. Other cultivars than described may give varied results, product should be applied only in an 'on year'.
Apples	Vigour control	See critical comments	7.5–20ml /100L of water	Reduction of shoot growth and promotion of return bloom. Apply from 1 to 2 weeks post flowering. Apply 2 to 3 applications at 10–14 day intervals. Apply as a dilute application. Avoid application under cool, frosty, or slow drying conditions that may stimulate fruit russet.
Kiwifruit	Accelerate ripening and advance harvest	See critical comments	47ml per hectare	Seek permission from exporter before treatment as treatment may restrict marketing options. Apply only once fruit sugar levels have reached 5.2% soluble solids. Treat only mature vines that have been cropping for at least three seasons. Fruit treated should not be set aside for long–term storage. Do not exceed recommended dose. Apply as a high volume spray to the point of run–off, ensuring complete uniform coverage and using at least 2000L of water per hectare.
Tomatoes Dwarf – Single harvest	Ripening	When 15–20% fruit is coloured	See critical comments	Boom sprayer: Apply 2L in 340L water per hectare. Gun sprayer: 160ml/100L as a light wetting spray. Optimum ripening should occur within 14–21 days. Temperatures below 18°C may delay colour development.
Tomatoes Dwarf – Multi harvest	Ripening	Early treatment	See critical comments	Apply as for single harvest tomatoes (above) after two to three picks have been made. Most fruit can then be harvested 14–21 days later. If a reasonable amount still remains, use the following late treatment.
		Late treatment	See critical comments	Timing 7–10 days prior to final pick. Boom sprayer: Apply 3.0–3.5L in 340L of water per hectare. Gun sprayer: 250–300ml/100L water. Treated fruit should ripen within 15 days. This treatment may be used whether or not early treatment has been applied.
Tomatoes Stake – Glasshouse grown	Ripening	7–10 days before harvest	18ml in 10L of water	Apply as a light wetting spray using a knapsack sprayer.
Tomatoes Stake – Outdoor, Main Crop	Ripening	See critical comments	See critical comments	Use as for dwarf tomatoes – multiple harvest programme above. Early, late or both treatments may be made. For small areas apply 38ml in 10L of water per 220m ² by knapsack sprayer.
Tomatoes Stake – Outdoor, Late crop	Ripening	See critical comments	See critical comments	Knapsack sprayer – apply 75ml in 10L of water per 220m ² . Gun sprayer – 300ml/100L water. Apply immediately after 2 or 3 picks have been made. Apply by end of April at latest. Continue with normal picking schedule after application (note the 7 day withholding period).
Turf – Sportsfields, Greens and Tees	Poa annua seedhead suppression. Beginning of seed head development	Beginning of seed head development	7.5–10L/ha	Do not apply to turf to be feed to animals. Needs to be applied just prior to Poa seed head emergence. Timing and weather conditions at application are very important to achieve a consistent result. Apply in 600–800L of water per hectare. Apply with a non–ionic surfactant such as Spray Aid. With alkaline water sources an acidifying agent to maintain an acidic spray solution may be required. Apply under warm conditions. Do not apply to turf under stress or during cool, wet weather conditions. Do not apply multiple applications closer than 21 days apart to avoid thinning of greens. Can cause short term yellowing of turf.