

HARMFUL

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING

ETHEPHON 480

GROWTH REGULATOR

ACTIVE INGREDIENT: 480 g/litre CHLORETHEPHON in the form of a soluble concentrate.

A plant growth regulator for bloom thinning, vigour control and return bloom enhancement in apples and ripening tomatoes, early apples and kiwifruit. Also for the suppression of annual poa seedhead in turf.

Registered pursuant to ACVM Act 1997, Approval No. P8926
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to HSNO Act 1996, Approval No. HSR000804
See www.epa.govt.nz for approval conditions

NET CONTENTS: 20L

ETHEPHON 480 GROWTH REGULATOR

APPROVED HANDLER

This product must be under control of an approved handler during use.

HSNO CLASSIFICATION: 6.1E, 6.9B, 8.2C, 8.3A, 9.1C, 9.2A

WARNING

May be harmful if swallowed, inhaled or absorbed through the skin. May cause damage to organs by repeated oral exposure at high doses.

DANGER

Causes severe skin burns and eye damage. Causes serious eye damage.

ECOTOXIC

Harmful to aquatic life with long lasting effects. Very toxic to the soil environment.

PRECAUTIONS

PERSONAL PROTECTION

Wear chemical resistant coveralls, eye protection, gloves and footwear when mixing and/or applying. Use respiratory protection as specified in NZS 8409; Management of Agrichemicals where inhalation of spray mists and vapours will, or is likely to occur. Wash splashes of concentrate from skin or eyes immediately. Wash hands and face before eating, drinking or smoking and after work. Thoroughly wash/decontaminate protective clothing after use. DO NOT eat, drink or smoke while using.

STORAGE

Store in original container tightly closed and in a locked, dry, cool area away from human/animal foodstuffs, animal health remedies, seeds, and fertilisers. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

CONTAINER DISPOSAL

Triple rinse empty container and add residue to spray tank. Recycle empty container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise, crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.

FIRST AID

If swallowed do NOT induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. 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.

SAFETY DATA SHEET

A Safety Data Sheet is available from the Kenso NZ website: www.kenso.co.nz

CONDITIONS OF SALE

Kenso Corporation (M) Sdn. Bhd. 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 responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Kenso Corporation (M) Sdn. Bhd. is limited to the replacement of the goods or (at the option of Kenso Corporation (M) Sdn. Bhd.) the refund of the price paid and where possible sufficient part of the goods to enable proper examination being returned to Kenso Corporation (M) Sdn. Bhd. within thirty days of delivery.



EMERGENCY RESPONSE
Ring 0800 CHEMCALL, or
0800 243 622 (24 hours)

Product of China



Batch No.:
Date of Manufacture:

UN NO: 3265

CORROSIVE LIQUID ACIDIC, ORGANIC, NOS
PACKING GROUP III,

HAZCHEM 2X

HAZARD CLASS 8



In a transport emergency dial 111,
Police or Fire Service.

For specialist advice in emergency only,
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* Not a trademark of Kenso Corporation (M) Sdn Bhd.

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SPILLS AND 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 an inert absorbent material then transfer the recovered spilt material to a properly labelled drum. Deal with all spillages immediately. Avoid contamination of any water supply with chemical or empty container. If contamination of drains, streams, watercourses, etc. is unavoidable, immediately warn the local authority pollution response unit. Refer to local authorities for hazardous waste disposal options.

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STORAGE
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MIXING
Tank mixing with other chemicals than those listed in the direction for use is not recommended.

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

WETTER: The addition of a nonionic wetter 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 Buffy may be added at label rates to adjust water pH.

MIXING: Ethephon 480 Growth Regulator 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.

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).

CAUTION
Use of this product may restrict crop marketing options: it must only be used with the approval of the relevant crop marketing organisation/authority and after the required indemnity form has been signed. Treat only mature crops/vines which have been cropping for at least three years. Fruit treated with Ethephon 480 Growth Regulator should not be set aside for long-term storage. It is essential that quantities of Ethephon 480 Growth Regulator are accurately measured and applied - do not exceed the recommended dose.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residue Limits of Agricultural Compounds) Food Standards.

APPLICATION RATES:

Crop	Use	Timing	Use Rate	Critical Comments
Apples - Early apples	Colour promotion and uniform maturity in early apples	1-2 weeks before expected harvest	40-60 ml / 100 litres 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 Ethephon 480 Growth Regulator may be applied up to 5 weeks before the normal harvest date.
Apples	Bloom thinning and return bloom enhancement	See critical comments	21-42 ml / 100 litres of water	For use on varieties susceptible to biennial bearing such as Braeburn, Pacific Rose™, Pacific Beauty™ and Fuji. Apply with a suitable penetrant (at recommended label rates). 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 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	7.5–20 ml / 100 litres 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.

Crop	Use	Timing	Use Rate	Critical Comments
Kiwifruit	Accelerate ripening and advance harvest	See critical comments	47 ml 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 2 L in 340L water per hectare. Gun sprayer -160ml/100 litres 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 to 3.5 litres in 340 litres of water per hectare. Gun sprayer – 250-300 ml/100 litres 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	18 ml in 10 litres of water	Apply as a light wetting spray.
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 10 litres of water per 220 square meters by knapsack sprayer.
Tomatoes Stake - Outdoor, Late Crop	Ripening	See critical comments	See critical comments	Knapsack sprayer – apply 75ml in 10 litres of water per 220 square meters. Gun sprayer – 300ml per 100 litres 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 seedhead development	7.5-10 litres per hectare	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.