POISON

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



ACTIVE CONSTITUENT: 720 g/L ETHEPHON (an anti-cholinesterase compound)

For crop thinning, loosening or ripening in various crops and for accelerating boll opening, defoliation and pre-conditioning before defoliation of cotton as specified in the Directions for Use table.

IMPORTANT: READ THIS LEAFLET BEFORE OPENING OR USING THIS PRODUCT

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Leaflet_1117 APVMA Approval No: 69257/60348

GENERAL INSTRUCTIONS

When adding Wetter 1000, use the rate as recommended on this label.

IMPORTANT

Apples - Advancement of fruit maturity and improvement of red colour.

- Ensure fruit has reached marketable size before treatment and keep trees under observation after spraying.
- Ensure fruit is picked at the correct stage of maturity, as fruit not harvested will quickly become overripe.
- Continuing low temperatures will advance maturity and colouration; continuing warm to high temperatures, both day and night, will advance maturity but may reduce colouration.
- · Apply to fruit only for the fresh fruit market or short term storage.

Apples - Thinning

The complex nature of fruit and the possible variable action of chemical thinners due to weather conditions make it difficult to give set recommendations and growers should consult their local agronomist.

Apples – Fruit Removal

- Apply to trees to remove unwanted fruit and encourage a biennial bearing habit. Excessive vegetative
 growth will be suppressed and bloom the following season stimulated.
- Weather conditions are very important warm weather following treatment will improve results, but
 if temperatures below 18°C prevail after spraying, fruit removal may be reduced. In the latter case,
 use the higher dose rate.
- Fruit will loosen in 7-10 days and thinning should be complete within 2-3 weeks. Limbs can be lightly shaken to aid removal after this time.

IMPERIAL MANDARINS and VALENCIA ORANGES

Apply during the early stage of fruit development for thinning and correction of the habit of alternate heavy and light crops. Weather conditions influence the degree of thinning and care must be taken not to over-thin.

EXCLUSION OF LIABILITY

As the degree of thinning may vary according to the conditions and over-thinning is possible, the decision to incur these risks is taken by the user, and the manufacturer and vendor exclude themselves from all conditions, representations, warranties, whether expressed or implied by the statute or otherwise and accept no responsibility for any losses which follow from the use of the product on mandarins or oranges as far as this is legally possible under the Trade Practices Act or any State legislation.

COTTON

A foliar spray with Sabakem Ethephon 720SL® Growth Regulator will accelerate opening of mature unopened bolls and enhance defoliation, which can result in earlier harvest and increased recoverable yield and quality. Some premature drop of small immature bolls may occur. Harvest at optimum boll opening and optimum defoliation. Too late harvest may reduce quality and lint.

COTTON - APPLICATION

DO NOT apply before sufficient mature unopened bolls have developed to produce the desired yield of cotton. Bolls are mature when the seed coat turns light brown, the embryo fills the seed cavity with an abundance of creamy colour and cotyledons are well defined.

COTTON – TREATMENT SEQUENCE

- <u>Light canopy:</u> Apply Sabakem Ethephon 720SL® Growth Regulator then apply defoliant 4 to 7 days later.
- Moderate to heavy canopy: First apply a pre-conditioner, then apply Sabakem Ethephon 720SL®
 Growth Regulator as soon as sufficient leaves have dropped to expose the target bolls, usually 4 to
 10 days later.

COTTON – APPLICATION METHOD

Apply by placement technique under the following range of conditions to achieve a target droplet density of 60 droplets per square cm.

Wind Direction: Cross Wind
Wind speed range: 6-20kph
Air Temperature: Maximum 32°C
Delta t: Maximum 10°C

SUGAR CANE

Sabakem Ethephon 720SL® Growth Regulator may be applied by air or ground spray equipment. Apply in 30 L water/ha by air and 110-150 L water/ha by ground spray equipment. Apply during March-April on cane due for harvest no later than August. Consult your local Sabakem agent or BSES officer.

TOMATOES

- Temperatures below 18°C retard colour development and may extend the interval between treatment and harvest.
- Treatment may cause some yellowing of foliage or defoliation.
- Sun scald of exposed fruit may occur under high temperature conditions following treatment.

MIXING AND APPLICATION

Add Sabakem Ethephon 720SL® Growth Regulator to half the required volume of good quality water in the spray tank, then add the remaining volume of water while agitating the mixture.

DO NOT use alkaline water. Prepare only enough spray solution for immediate use, and DO NOT allow to stand. If tank mixtures are prepared, maintain good agitation and use promptly. Apply as a thorough uniform spray to achieve good coverage. For aerial application apply at least 20 L/ha water. Sabakem Ethephon 720SL® Growth Regulator is corrosive to acrylic plastic, certain paints and metals. Flush and rinse all exposed equipment including aircraft surfaces with detergent and water after use.

COMPATIBILITY

DO NOT mix with desiccants containing sodium chlorate as this could result in emission of toxic chlorine fumes. Sabakem Ethephon 720SL® Growth Regulator may be tank mixed with defoliant products. Since the formulations of other products are beyond the control of Sabakem Pty Ltd, tank mixtures should be tested before commercial use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish. D0 N0T contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL

20L, 200L only: Store in the closed, original container in a dry, cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

Refillable containers (1000L only): Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

Envirodrum 110L Mini Bulk Returnable Container: Store the original sealed Envirodrum in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any other foreign matter. After each use of the product please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase. The Envirodrum remains the property of Sabakem Pty Ltd.

SAFETY DIRECTIONS

Product is harmful if swallowed. Attacks eyes. Repeated minor exposure may have a cumulative poisoning effect. Protect eyes while using. When preparing spray and using the prepared spray, wear elbow-length PVC gloves and face shield or goggles. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If swallowed, DO NOT induce vomiting. Give a glass of water. If swallowed, splashed on skin or in eyes, or inhaled, contact a Poison Information Centre. Phone Australia 13 11 26 or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SAFETY DATA SHEET

 $For further information \ refer \ to \ the \ Safety \ Data \ Sheet \ (SDS), \ which \ is \ available \ from \ the \ supplier.$

CONDITIONS OF SALE: The use of this product is beyond the control of Sabakem Pty Ltd. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Sabakem Pty Ltd accepts no responsibility for any consequences resulting from the use of this product. Sabakem Pty Ltd will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: May be corrosive to metals. Causes skin bums and eye damage. Harmful if inhaled.

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DIRECTIONS FOR USE
RESTRAINTS:
DO NOT apply to weak or stressed plants.
DO NOT apply if rain is expected within 8 hours of application.
DO NOT apply if day/night temperatures are expected to be below 18°C.
DO NOT apply if cotton bolls have been burned by frost.
DO NOT pretreat with a desiccant (chlorate) before using Sabakem Ethephon 720SL® Growth Regulator.
DO NOT my with hard (alkaline) water.

CROP	MODE OF ACTION	STATE	RATE (High Volume)	WHP	CRITICAL COMMENTS	CROP	1
APPLES: Jonathan,	Advancement of maturity,	Qld, NSW, Vic, SA,	35-65 mL/100 L water PLUS Wetter 1000 and	7 days	Ensure fruit has reached marketable size before treatment and keep trees under observation	PEACHES	A a
Delicious	improvement of red colour	WA only	add "stop drop"		after spraying. Apply 2 to 3 weeks before normal harvest period and 7 to 14 days before desired		r
Tydeman's Early		Tas only	25 mL/100 L water and add "stop drop"		harvest date. Ensure fruit is picked at the correct stage of maturity, as fruits not harvested will quickly become over-ripe.		
					Note: For best results spray when temperatures		
					are between 15° and 32°C. Continuing low temperatures will advance maturity but		
					may reduce colouration, so use lower rate. Use higher rate for quicker response. Add a		
					"stop-drop" to prevent premature loosening of fruit. Thorough coverage is essential. Apply to fruit only for the fresh fruit market or short term storage.	CROP	1
Gravenstein, Golden	Thinning*	Vic, SA only	15 mL/100 L water PLUS Wetter 1000	1	Apply at full bloom OR up to 1 week following full bloom. A second thinning spray 10 to 14	PINEAPPLES	I
Delicious, Jonathan and Red Delicious		Only	Weller 1000		days after the Sabakem Ethephon 720SL® Growth Regulator spray may be necessary.	(plus Urea)	'
					On Gravenstein and Golden Delicious apply carbaryl or 5 to 7.5ppm NAA (use higher rate		
					for maximum thinning). On Jonathan and Red Delicious apply carbaryl or 4ppm NAA.		
Golden Delicious, Stark		Tas only	35 mL/100 L water PLUS Wetter 1000	1	Apply at the balloon blossom stage using a high volume sprayer at 4000 L/ha.		
Crimson and Legana			1101101 1000		DO NOT apply if rain is imminent. DO NOT use in sequence or in mixtures with		
					NAA. If maximum temperatures are below 13°C after spraying, inadequate thinning may result,		
Golden		WA only	35 - 40mL/ 100 L water	-	or if above 18°C excessive thinning may result. Only use high concentration when heavy set		
Delicious, Red Delicious,		WASHIY	PLUS Wetter 1000		expected.	PINEAPPLES	1
Jonathan, Granny Smith					Note: For all thinning applications: The complex nature of fruit set and the possible variable action of chemical thinners due to	(without Urea)	f r
Lady William			45-65 mL/100 L water PLUS Wetter 1000	1	weather conditions, make it difficult to give set recommendations and growers should consult		
All 1 m	Atal	Now		-	their local agronomist.		
All varieties	Aid complete removal of fruit	NSW, SA, WA only	65-135 mL/100 L water PLUS Wetter 1000		Apply just prior to full bloom OR 5 to 6 weeks later during early morning or late afternoon		
	from trees and encourage a				when slow drying conditions occur. Ensure thorough coverage of foliage and flowers or fruit		
	biennial bearing habit (Excessive vegetable				fruit. Note: Under normal weather conditions use		
	growth will be suppressed				lower rate for Delicious and higher rate for Jonathans as they are difficult to de-fruit.	PINEAPPLES	F
	and the following bloom				Consult the local Department of Agriculture for specific recommendations on other varieties.		
	stimulated)				Warm weather following treatment will improve results, but if temperatures below 18°C prevail after spraying, fruit removal may be reduced,		
					in the latter case use a higher dose rate. Fruit will loosen in 7 to 10 days and thinning should		
					be complete within 2 to 3 weeks. Limbs can be lightly shaken to aid removal after this time.		
	Retard		65-135 mL/100 L water	1	Apply from full bloom to 6 weeks after full		
	vegetative growth and		PLUS Wetter 1000		bloom. Ensure thorough coverage. Trees should be large enough to support an increased crop		
	stimulate flowering of young apple				of apples before being treated. Increase rate towards 135 mL/100 L to maximise thinning and stimulation of blooms during the following		
	trees in the following				season. DO NOT apply if harvesting fruit in same		
	season				season as flowers or fruitlets will be partially or completely thinned.		
CHERRIES: Ron's Seedling,	Promote evenness	NSW only: Young	20 mL/100 L water	7 days	Treatment with Sabakem Ethephon 720SL®		
St. Margaret, Napoleon,	of maturity; early colour	district			20% of the fruit show pink to red colour		
Florence	development	Orange/ Bathurst district	40 mL/100 L water		harvest. Ensure thorough coverage of leaves and fruit.	is flowers or fruitlets will be partially or by thinned. In twith Sabakem Ethephon 720SL® Regulator: Apply when approximately need fruit show pink to red colour lent, normally 7 to 10 days before Ensure thorough coverage of leaves In temperature at spraying or following may accelerate results. Do NOT spray and daily temperatures exceed 32°C. Sugar Cane	
		uistrict	development, normally 7 to 10 days before harvest. Ensure thorough coverage of leaves and fruit. Note: High temperature at spraying or following spraying may accelerate results. DO NOT spray SUGAR CANE	(
					when mean daily temperatures exceed 32°C. DO NOT spray when rain is expected within 24		
					hours OR when temperatures are low (17°C or less) as this will delay or reduce the effect of		
					Sabakem Ethephon 720SL® Growth Regulator. Fruit will mature 3 to 5 days earlier than normal		
					and will be loosened to allow easier harvesting. A high proportion of fruit will readily separate		
TABLE GRAPES:	To promote	NSW, SA	15-20 mL/100 L water PLUS Wetter 1000	14 days	from the stalk when harvested. Apply when 5 to 30% of the berries are coloured (2.4 weeks prior to expected harvest) Use the	TOMATOES	
Barlinka	early uniform colouring	only	LOS WELLET TOUU		(2-4 weeks prior to expected harvest). Use the higher rate to maximise the colouring effects required. Ensure thorough coverage of bunches		r
Red Emperor, Red Prince,		NSW, Vic, SA, WA	25-40 mL/100 L water PLUS Wetter 1000		although the foliage need not to be completely covered.		f
Red Malaga, Cardinal,		only			Note: Sabakem Ethephon 720SL® Growth		
Muscat of Hamburg					Regulator may slightly reduce firmness of grapes. DO NOT use on grapes intended for		
Flame Seedless	1	WA only			long storage.		
WINE GRAPES: Semillon	Aids to mechanical	NSW only	40-130 mL/100 L water PLUS Wetter 1000	7 days	Apply 7 days before expected harvest. Thorough coverage of upper and lower leaf surfaces is		
	harvesting				essential. Note: Some leaf yellowing and leaf fall, which	CROP	1
					is not detrimental to vines, may occur. The concentration to use will depend on a number of	COTTON	<i>I</i>
MANDARINS:					factors such as seasonal conditions, crop size, weather conditions (before and after application)	5511511	a
					and trellis type. Therefore, before applying consult the local Department of Agriculture for		,
	Thinning to	Qld, NSW	35-40 mL/100 L water	Not	specific recommendations. Apply during the early stage of fruit		
	increase fruit size, to reduce	SA, WA		required	development for thinning and correction of the habit of alternate heavy and light crops. Apply		
	size of heavy crop and to	Vic only	25-35 mL/100 L water]	as foliar spray when fruitlets are about 10 to 15 mm in diameter and when natural fruit drop		F
ORANGES: Navel	even out the production	NSW, WA only	35-40 mL/100 L water		is occurring. This is usually in November in QId, December in SA and intermediate in NSW,		0
Valencia	cycle	NSW, SA,	1		WA and Vic. Weather conditions influence the degree of thinning and care must be taken not		0
		WA only Vic only	40-45 mL/100 L water		to over-thin. Note: Fruitlets should fall off 7 to 14 days after		-
					application. Aim to apply 13 to 15 L of spray per 4 to 5 m high tree. Use the higher rate when a		'
					very heavy crop is evident. DO NOT apply in cold weather (less than 18°C)		
					OR when rain is likely within 1 to 2 days of spraying. DO NOT add surfactants or wetting		
					agents as leaf fall may be increased. See also General Instructions.		
MACADAMIA NUTS:	Aid harvesting by promoting	NSW, WA	165 mL/100 L water PLUS Wetter 1000	7 days	Apply late March to early May when nuts are mature. Vary rate according to degree of		
NUTS: Own choice	uniform nutfall	Siny	, 200 Hottol 1000		loosening required.	NOT TO BE AUTHORISE	
H2 Variety			55-105 mL/100 L water PLUS Wetter 1000		Note: Nuts will be stimulated to fall within 10 to 14 days after spraying. Mechanical shaking		_
					may be used 7 to 10 days after spraying. Ensure thorough coverage of foliage and nuts.	APPLES, CHERI	RIES,
					Ensure tops and insides of trees are adequately sprayed. A small quantity of older leaves will fall after treatment, but production will not be		
					adversely affected.	within 10 al shaking ying. and nuts. adequately aves will withholding Peric APPLES, CHERRIES, TABLE GRAPES AND	
					DO NOT use on Teddington variety.		

CROP	MODE OF ACTION	STATE	RATE (High Volume)		WHP	CRITICAL COMMENTS	
PEACHES	Advancement and concentration of maturity	Vic only: Goulburn Valley	15 mL/100 L water PLUS Wetter 1000		6 weeks	Apply once as foliar spray after commencement of the final fast growth stage. Timing depends on variety. Determine by measuring twice weekly, fruit circumference, of 20 tagged fruit/ block. After rapid growth stage determined, wait 3 to 4 days for further confirmation, then spray. Thorough coverage essential. Note: Instances have been recorded where this product, when applied in peaches apparently the correct time, has resulted in premature fruit drop, fruit gumming and fruit splitting. See also General Instructions.	
CROP	MODE OF ACTION	STATE	RATE GENERAL BOOM SPRAYING		WHP	CRITICAL COMMENTS	
PINEAPPLES (plus Urea)	Initiation of flowering	Qld, WA only	80 mL + 5 kg Urea/100 L water Apply 30 mL solution / plant	1.6 L PLUS 100 kg Urea in 2000 L water/ha (Boom spray)	7 days	Apply in March. Note: Rate should be doubled for plant crops which are growing vigorously at the time of application. Apply May-June OR September-October.	
			5 kg Urea / 100 L water Apply 30 mL solution / plant	PLUS 100 kg Urea in 2000 L water/ha (Boom spray)		Note: See above – February/March application with Urea.	
PINEAPPLES (without Urea)	Initiation of flowering in ratoon		25 mL/10 L water Apply 30 mL solution / plant	6 L in 2000 L water/ha (Boom spray)		Apply February-March. Note: Use on the final crop in the block before eradication of the crop. Pineapples treated at the above time will be ready for picking 7 to 10 months after application.	
			7 mL/10 L water Apply 30 mL solution / plant	1.5 L in 2000L water/ha (Boom spray)		Apply May-June OR September-October. Note: See above – February/March application without Urea.	
PINEAPPLES	Fruit ripening		_	1.7 L in 1000L water/ha (Boom spray)		Sabakem Ethephon 720SL® Growth Regulator for ripening should only be used on even crops successfully induced for flowering with Sabakem Ethephon 720SL® Growth Regulator. DO NOT use on fields intended for ratoon production. Treatment should be made when the forced fruit are beginning to show the first colour break. An initial harvest may be necessary to remove more advanced fruit before applying Sabakem Ethephon 720SL® Growth Regulator. The remaining treated fruit will be ready for harvest at least 7 days following Sabakem Ethephon 720SL® Growth Regulator ripening application. Note: DO NOT use on fruit intended for the fresh fruit market. Sabakem Ethephon 720SL® Growth Regulator for ripening is NOT SUITABLE FOR USE ON SUMMER PLANT CROPS because of scattered fruiting and high risk of forcing young suckers. Where natural fruiting has occurred prior to chemical induction, these natural fruit must be picked before Sabakem Ethephon 720SL® Growth Regulator ripening. Treatment too early can result in a loss of yield and a reduction in fruit sugar levels.	
CROP	MODE OF ACTION	STATE	RATE (High Volume)		WHP	CRITICAL COMMENTS	
SUGAR CANE	Cane ripening	Qld, NSW, WA only	1 L/ha		6 weeks	Use in March-April to accelerate ripening in cane and increase c.c.s. Use on cane planted for early harvest with harvest no later than August. Apply to actively growing and non-stressed cane with at least eight non-stressed green leaves. Cane varieties Q115, Q119, Q137, Q124, Q96, H56-752 and CP44-101 have all shown high to moderate response to ethephon. Shortening of some internodes and yellowing of leaves may occur without any effect on cane yield. Test any new varieties prior to application.	
TOMATOES	Accelerate ripening, increasing yield of marketable fruit	All States	1.2 L in 440-880L water/ha		7 days	Apply once in the season. Ensure thorough coverage of fruit and foliage, when fruit is 5 to 30% pink or red. To determine this pull a few plants, shake off all fruit, weigh and determine above percentage. Optimum harvest maturity is expected 14 to 21 days after spraying. DO NOT use on greenhouse crops. Note: Temperature below 18°C retard colour development and may extend the interval between treatment and harvest. Treatment may cause some yellowing of foliage or defoliation.	
anan		07475	2475			Sun scald or exposed fruit may occur under high temperature conditions following treatment.	
CROP	MODE OF ACTION Defoliation,	QId, NSW,	2-3 L/ha in a minimum of 2		20 L of	CRITICAL COMMENTS FOR ENHANCED DEFOLIATION AND BOLL	
SULLIN	acceleration of boll opening	uid, NSW, WA, NT only	water/ha			OPENING OF COTTON Apply when the number of mature unopened bolls is sufficient to produce the desired crop. Use the lower rate in warm optimum conditions. Use the higher rate for stressed plants, rank growth or adverse cool conditions (eg if day/ night temp. after treatment is expected to be below 22°C). Ensure thorough and uniform coverage of bolls.	
	Pre-conditioning of crop before a normal defoliation is to occur		water/ha	ı minimum of 2		FOR PRE-CONDITIONING BEFORE DEFOLIATION Apply when there are sufficient mature unopened bolls to produce desired yield. Apply defoliant 4-7 days later. Ensure thorough and uniform coverage of bolls.	
	Defoliation#		0.5-1 L/ha in a minimum of of water/ha		11 ZU L	Use in a tank with a registered rate of Thidiazuron. Apply when there are sufficient unopened bolls to produce the desired yield. Total application volume should be no less than 20 L/ha. Ensure thorough and uniform coverage of bolls and leaves. # This mixture will also provide some acceleration of boll opening, however, a subsequent application of a boll opener may be required to complete boll opening.	

SED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS UNDER APPROPRIATE LEGISLATION.

S, MACADAMIA NUTS, PINEAPPLES, TOMATOES, WINE GRAPES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION. ND COTTON: DO NOT HARVEST FOR 14 DAYS AFTER APPLCIATION.

PEACHES AND SUGAR CANE: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION.

 ${\tt DO\;NOT\;FEED\;COTTON\;STUBBLE\;OR\;GIN\;TRASH\;TREATED\;WITH\;SABAKEM\;ETHEPHON\;720SL\;GROWTH\;REGULATOR\;TO\;LIVESTOCK.}$

DONOT GRAZE LIVESTOCK ON TREATED PLATNS.