

**PLANT GROWTH REGULANTS DECEMBER 2017**

<b>Crop</b>	<b>Problem</b>	<b>Active/s</b>	<b>F/T</b>	<b>Conc</b>	<b>Product name</b>	<b>L No.</b>	<b>Company name</b>
Alfalfa	Desiccation	diquat dibromide	SL	200 g/l	Reglone	1115	Syngenta SA (Pty) Ltd
Apples	Fruit thinning	1-naphthaleneacetimide	WP	84 g/kg	Amid-Thin W	7900	Universal Crop Protection (Pty) Ltd
Apples	Fruit thinning	1-naphthylacetic acid	SL	35 g/l	PoMaxa	9461	Valent Biosciences
Apples	Fruit thinning	1-naphthylactic acid	SL	45 g/l	Planofix	531	Bayer
Apples	Chemical thinning	2-(1-naphthyl)acetamide	WP	100 g/kg	Golden Thin	2581	Applied Agricultural Products (div Plaaskem)
Apples	Fruit thinning and increasing fruit mass of individual fruit and enhancing return bloom	6-benzyl adenine	SL	19 g/l	MaxCel	7876	Valent Biosciences
Apples	Improve typiness/shape of fruit/fruit mass, fruit thinning, feathering agent, increased lateral branches, increased shoot growth, increased budding	6-benzyl adenine/gibberellins	SL	19/19 g/l	Elppa	6160	RT Chemicals
Apples	Feathering agent, increased budding	6-benzyl adenine/gibberellins	SL	19/19 g/l	Elppa	6160	RT Chemicals
Apples	Fruit thinning; Feathering agent; Improve shape and mass	6-benzyl adenine/gibberellins	SL	19/19 g/l	Gibbalin	9105	Globachem NV (Disa Bio-Technologies CC)
Apples	Improve typiness of fruit, fruit thinning, reduce calyx-end russeting, feathering agent, increase budding + various	6-benzyl adenine/gibberellins	SL	19/19 g/l	Perlan	5778	Universal Crop Protection (Pty) Ltd
Apples	Improve typiness, fruit thinning, reduce calyx-end russeting, increase fruit mass, feathering agent (non-bearing), lateral branching, improve bud break	6-benzyl adenine/gibberellins	SL	19/19 g/l	Promalin	5119	Valent BioSciences (div Philagro)
Apples	Fruit thinning	6-benzyladenine	SL	20 g/l	Bapsol	8783	Chempac (Pty) Ltd
Apples	Fruit thinning	6-benzylaminopurine (cytokinins)	SL	21 g/l	Exilis	7891	Universal Crop Protection (Pty) Ltd
Apples	Budbreaking characteristics (use with Partner)	ammoniated nitrates	AL	170 g/l	GAN	5574	Universal Crop Protection (Pty) Ltd
Apples	Reduces leaf burn	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Apples	Sunburn; Heat damage	boron/calcium	SL	1/250 g/l	Shade	10007	Universal Crop Protection
Apples	Fruit thinning	carbaryl	SL	480 g/l	Sevin XLR Plus	5783	Universal Crop Protection (Pty) Ltd

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Apples	Chemical thinning	carbaryl	WP	850 g/kg	Carbaryl 850 WP	7626	Universal Crop Protection (Pty) Ltd
Apples	Fruit thinning	carbaryl	WP	850 g/kg	Karba 850 WP	1195	Villa Crop Protection
Apples	Fruit thinning	carbaryl	WP	850 g/kg	Sevin 850 WP	1450	Bayer
Apples		cyanamide	SL	520 g/l	Alert 520 SL	9719	Villa Crop Protection (Pty) Ltd
Apples	Delayed foliation	cyanamide	SL	520 g/l	Bloomer	7915	Nippon Africa Chemicals
Apples		cyanamide	SL	520 g/l	Cyan	9488	Chempac (Pty) Ltd
Apples	Delayed foliation	cyanamide	SL	520 g/l	Cymex	8204	Volcano Agrosience (Pty) Ltd t/a Arysta Lifescience SA (Pty) Ltd
Apples	Improved foliation	cyanamide	SL	520 g/l	Deurbraak	7255	RT Chemicals (Erintrade)
Apples	Delayed foliation.	cyanamide	SL	520 g/l	Dorcy	7507	Almond Agrochemicals
Apples	Delayed foliation	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Apples		cyanamide	SL	520 g/l	Respond 520 SL	9718	Universal Crop Protection (Pty) Ltd
Apples	Reduces leaf burn	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Apples	Delayed foliation	dinocap	EC	350 g/l	Karathane 350 EC	5059	Dow AgroSciences SA (Pty) Ltd
Apples	Improved colour. Enhanced maturity	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Apples	Improved colour development, enhancement of maturity	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Apples	Improved colour development, enhancement of maturity	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Apples	Improved colour development, enhancement of maturity	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Apples	Improved colour development, enhancement of maturity	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Apples	Reduction of calyx en russet	gibberellins	SG	100 g/kg	Regulex 10 SG	5120	Valent Biosciences
Apples	Russeting	gibberellins	SL	10 g/l	Novagib 10 SL	10187	Universal Crop Protection (Pty) Ltd
Apples	For delayed foliation	h-cyanamide	SL	520 g/l	Bloomer	7522	Nippon Africa Chemicals (Pty) Ltd
Apples	Chemical fruit thinning	metamitron	SC	150 g/l	Nevis 150 SC	9748	Adama SA (Pty) Ltd
Apples		methycyclopropene	SP	33 g/kg	SmartFresh	7198	Rohm & Haas
Apples	Delayed foliation	mineral oil	EC	855 g/l	Ampron	6125	H&R South Africa Sales (Pty) LTd
Apples	Delayed foliation	mineral oil	EC	857 g/l	Budbreak	5951	Nulandis
Apples		mineral oil	EC	869,3 g/l	Apple Winter Oil	7921	Almond Agrochemicals
Apples	Delayed foliation	mineral oil	EC	869,3 g/l	Awakening Oil	7917	Tsunami Plant Protection (Pty) Ltd
Apples	Delayed foliation	mineral oil (heavy grade)	EC	864 g/l	86% Winter Oil	4890	Cropchem
Apples		mineral oil (light)	EC	790 g/l	Wenfinex	5561	Wenkem
Apples		mineral oil (medium grade)	EC	720g/l	Pestridol	1255	Applied Agricultural Products (div Plaaskem)

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Apples	Reduce excessive shoot growth	prohexadione-calcium	WG	100 g/kg	Kudos 100 WDG	9759	Universal Crop Protection (Pty) Ltd
Apples	Reduce excessive shoot growth	prohexadione-calcium	WG	100 g/kg	Regalis	7549	BASF SA (Pty) Ltd
Apples	Delay fruit maturity (harvest)	S)-trans-2-amino-4-(2-aminoethoxy)-3-butenoic acid hydrochloride	SP	150 g/kg	ReTain	6141	Valent BioSciences (div Philagro)
Apples	Rectification of delayed foliation	soybean oil	EC	850 g/l	Mprove Oil	9668	Natrol (Pty) Ltd
Apples	Control of delayed foliation	thidiazuron	EC	3 g/l	Lift	7102	Almond Agro Chemicals
Apricots		cyanamide	SL	520 g/l	Alert 520 SL	9719	Villa Crop Protection (Pty) Ltd
Apricots	Delayed foliation	cyanamide	SL	520 g/l	Bloomer	7915	Nippon Africa Chemicals
Apricots		cyanamide	SL	520 g/l	Cyan	9488	Chempac (Pty) Ltd
Apricots	Delayed foliation	cyanamide	SL	520 g/l	Cymex	8204	Volcano Agroscience (Pty) Ltd t/a Arysta Lifescience SA (Pty) Ltd
Apricots	Improved foliation	cyanamide	SL	520 g/l	Deurbraak	7255	RT Chemicals (Erintrade)
Apricots	Delayed foliation	cyanamide	SL	520 g/l	Dorcy	7507	Almond Agrochemicals
Apricots	Delayed foliation	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Apricots		cyanamide	SL	520 g/l	Respond 520 SL	9718	Universal Crop Protection (Pty) Ltd
Apricots	For delayed foliation	h-cyanamide	SL	520 g/l	Bloomer	7522	Nippon Africa Chemicals (Pty) Ltd
Apricots	Delayed foliation	mineral oil	EC	855 g/l	Ampron	6125	H&R South Africa Sales (Pty) LTd
Apricots	Delayed foliation	mineral oil (heavy grade)	EC	864 g/l	86% Winter Oil	4890	Cropchem
Apricots		mineral oil (medium grade)	EC	720g/l	Pestridol	1255	Applied Agricultural Products (div Plaaskem)
Avocados		methylcyclopropene	SP	33 g/kg	SmartFresh	7198	Rohm & Haas
Avocados		methylcyclopropene	TB	6,3 g/kg	SmartFresh SmartTabs	7272	Rohm & Haas
Avocados	Vegetative growth control	paclobutrazol	SC	250 g/l	Avocet	7368	Universal Crop Protection (Pty) Ltd
Avocados	Vegetative growth control	paclobutrazol	SC	250 g/l	Cultar	3693	Syngenta SA (Pty) Ltd
Avocados	Vegetative growth control	paclobutrazole	SC	250 g/l	MidGit	6819	RT Chemicals
Avocados	Vegetative growth control and enhancement and improvement of fruit shape.	uniconazole	SC	50 g/l	Sunny 50 SC	5587	Philagro SA (Pty) Ltd
Avocados	Vegetative growth control and enhancement and improvement of fruit shape	uniconazole	SC	50 g/l	UniQ	7282	Erintrade CC t/a RT Chemicals
Bananas	Fruit ripening	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Barley	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Barley	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Beans (dry)	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Beans (dry)	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Beans (green)	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Beans (green)	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Beans (soy)	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Beans (soy)	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Blueberries & Raspberries	Advancement of budding	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Broccoli	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Broccoli	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Cabbage	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Cabbage	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Canola	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Canola	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Canola	Desiccation	diquat dibromide	SL	200 g/l	Reglone	1115	Syngenta SA (Pty) Ltd
Carrots	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Carrots	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Cauliflower	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Cauliflower	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Cherries	Delayed foliation	cyanamide	SL	520 g/l	Bloomer	7915	Nippon Africa Chemicals
Cherries		cyanamide	SL	520 g/l	Cyan	9488	Chempac (Pty) Ltd
Cherries	Delayed foliation	cyanamide	SL	520 g/l	Cymex	8204	Volcano Agrosience (Pty) Ltd t/a Arysta Lifescience SA (Pty) Ltd
Cherries	Delayed foliation	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Cherries	Uniform ripening. Easier harvesting	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Cherries	Uniform ripening and loosening of fruit	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Cherries	Uniform ripening and easier harvest	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Cherries	Uniform ripening and easier harvest	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Cherries	Uniform ripening and loosening of fruit	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Cherries	Delayed foliation	mineral oil	EC	857 g/l	Budbreak	5951	Nulandis
Chicory	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Chicory	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Citrus	Prevention of abscission of the calyx	2,4-D (sodium salt)	SL	25 g/l	Calyfix 2,4D SL	8301	Erintrade CC t/a R.T. Chemicals
Citrus	Prevention of stem-end rot by keeping the buttons fresh	2,4-D (sodium salt)	SL	25 g/l	Deccomone Solution	5562	Bayer
Citrus	Fruit size improvement	3,5,6 TPA	TB	100 g/kg	Maxim	7297	Arysta Lifescience SA (Pty) Ltd
Citrus	Sunburn; Heat damage	boron/calcium	SL	1/250 g/l	Shade	10007	Universal Crop Protection
Citrus	Correction of sugar-acid ratio	calcium arsenate	WP	855 g/kg	Calcium Arsenate	1299	Plaaskem (Gouws and Scheepers)
Citrus	Correction of sugar-acid ratio	calcium arsenate	WP	855 g/kg	Calcium Arsenate	5569	Sunwood Chemicals (Pty) Ltd
Citrus		calcium arsenate	WP	855 g/kg	Calsenate	5525	Unisun
Citrus		calcium arsenate	WP	855 g/l	Calcium Arsenate	6545	Tsunami Plant Protection
Citrus	Fruit thinning, direct fruit growth stimulation	dichlorprop	EC	50 g/l	Citrimax	6987	Universal Crop Protection (Pty) Ltd
Citrus	Increases fruit size.	dichlorprop	EC	50 g/l	Corasil E	5363	Nufarm Agriculture
Citrus	Improvement of fruit size	dichlorprop-P	SL	25 g ae/l	Corasil P	8441	Nufarm Agriculture
Citrus	Degreening	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Citrus	Degreening	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Citrus	Colouring of fruit	ethephon	SL	480 g/l	Ethephon	6882	Volcano Agrosience (Pty) Ltd
Citrus	Early detection of latent black spot	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Citrus	Colouring of fruit	ethephon	SL	480 g/l	Ripen-It	6261	RT Chemicals
Citrus	Grapefruit & Lemons - delay harvest. Navel Oranges & Valencia oranges - Reduce rind increasing. Clementines - Increase fruit set.	gibberellins	SG	400 g/kg	ProGibb 40 %	6777	Valent BioSciences
Citrus	Increase fruit set, delay of harvesting, larger and firmer fruit, reduce rind creasing	gibberellins	SL	32 g/l	Falgro 4 SL	6393	Universal Crop Protection (Pty) Ltd
Citrus	Delayed maturity, extension of hanging period, reduced creasing incidents, improved fruitset	gibberellins	SL	32 g/l	Gibb Liquid 4	6174	RT Chemicals
Citrus	Delay harvest, reduce rind creasing, increase fruit set	gibberellins	SL	32 g/l	ProGibb 4%	5118	Valent BioSciences
Citrus	Increase fruit set, reduce rind creasing	gibberellins	SL	32 g/l	Supagibb 4 SL	4898	Plaaskem (Gouws and Scheepers)

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Citrus	Clementines - Increase fruit set. Grapefruit - delay of harvesting, larger and firmer fruit. Lemons - delay harvesting, fewer pickings and larger fruit. Navels - reduce rind creasing (Trifoliolate). Valencia oranges - reduce rind creasing	gibberellins	SP	200 g/kg	Falgro 20 SP	6394	Universal Crop Protection (Pty) Ltd
Citrus	Delayed maturity, extension of hanging period, reduced creasing incidents, improved fruitset	gibberellins	TB	100 g/kg	Gibb Tab	6175	RT Chemicals
Citrus	Increase fruit set, delay of harvesting, larger and firmer fruit, reduce rind creasing	gibberellins	TB	204 g/kg	Falgro Tablets	4503	Universal Crop Protection (Pty) Ltd
Citrus	Degreening	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Clover	Desiccation	diquat dibromide	SL	200 g/l	Reglone	1115	Syngenta SA (Pty) Ltd
Cotton		dimethipin	SC	250 g/l	Harvade	1492	Crompton Chemical
Cotton	Defoliant, leaf regrowth suppressor	diuron/thidiazuron	SC	180/360 g/l	Ginstar 540 SC	7786	Bayer
Cotton	Accelerate boll burst	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Cotton	Promote boll burst, earlier harvesting	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Cotton	Accelerate opening of mature, unopened bolls	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Cotton	Accelerate opening of mature, unopened bolls	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Cotton	Accelerate opening of mature bolls	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Cotton	Modification of growth	mepiquat chloride	SL	50 g/l	Pix	116	BASF SA (Pty) Ltd
Cotton	Modification of growth	mepiquat chloride	SL	50 g/l	Quat 50 SL	9452	Villa Crop Protection (Pty) Ltd
Cotton	Modification of growth	mepiquat chloride	SL	50 g/l	Universal Crop Protection (Pty) Ltd	9453	Mepiquat 50 SL
Cotton	Defoliation	paraquat dichloride	SL	200 g/l	Agriquat 200 SL	6297	Nulandis
Cotton	Defoliation	paraquat dichloride	SL	200 g/l	Paragone 200 SL	4588	Nulandis
Cotton	Defoliation	paraquat dichloride	SL	274 g/l	Agroquat 200 SL	4871	Nulandis
Cotton	Leaf dessicant	sodium chlorate	SL	400 g/l	Bladval Ultra	6588	Plaaskem (Gouws and Scheepers)

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Cruciferae	Minimise pod shatter during harvest	polymers of cyclohexane	SL	935 g/l	Pod-Ceal	8275	Miller Chemicals SA
Dry beans	Minimise pod shatter during harvest	polymers of cyclohexane	SL	935 g/l	Pod-Ceal	8275	Miller Chemicals SA
Flowers & Ornamentals	Stimulation of rooting of slips and cuttings	2-(1-naphthyl) acetamide/2-(1,2-methylnaphthyl) acetic acid/2-(1-2-methylnaphthyl) acetamide/4-indol-3-ylbutyric acid	DP	0,67/0,33/0,13/0,57 g/kg	Rootstim	2709	Plaaskem
Flowers & Ornamentals	Liquid rooting agent	2(1-naphthyl)acetic acid	SL	10 g/l	Dip'n Grow	3036	Fleuron Universal Selected Services
Flowers & Ornamentals	Stimulation of rapid and prolific rooting of softwood plant cuttings	4-(indol-3-yl)-butyric acid	DP	1 g/kg	Seradix B No 1	258	Bayer
Flowers & Ornamentals	Stimulation of rapid and prolific rooting of semi-hardwood cuttings	4-indol-3-ylbutyric acid	DP	3 g/kg	Seradix B No 2	353	Bayer
Flowers & Ornamentals	Liquid rooting agent	4-indol-3-ylbutyric acid	SL	5 g/l	Dip'n Grow	3036	Fleuron Universal Selected Services
Flowers & Ornamentals	Stimulation of rapid and prolific rooting of hardwood plant cuttings	4-indol-3-ylbutyric acid	SL	8 g/kg	Seradix B No 3	355	Bayer
Flowers & Ornamentals	Improve/promote budbreak and inflorescence initiation	6-benzyl adenine	SL	19 g/l	MaxCel	7876	Valent Biosciences
Flowers & Ornamentals	Plant growth stimulant	auxins	SL	2,2 mg/l	Kelpak	5756	Starke Ayres
Flowers & Ornamentals	Plant growth stimulant	cytokinins	SL	0,0062 mg/l	Kelpak	5756	Starke Ayres
Flowers & Ornamentals	Growth suppression and vegetative growth control	daminozide	WG	850 g/kg	Dazide Enhance	8105	Universal Crop Protection (Pty) Ltd
Flowers & Ornamentals	Liquid plantfood with growth stimulant	fertilizer	SL	?	3:2:1 (22) Supranure Plus	3246	Wonder
Flowers & Ornamentals	Growth stimulation	fertilizer	SL	?	Margaret Roberts Organic Supercharger	6979	Ball Straathoff

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Flowers & Ornamentals	Growth stimulation	gibberellins	SL	0,003 g/l	Margaret Roberts Organic Supercharger	6979	Ball Straathoff
Flowers & Ornamentals	Growth enhancement	gibberellins	SL	0,003 g/l	Nitrosol	3725	Fleuron
Flowers & Ornamentals	Liquid plantfood with growth stimulant	indolylacetic acid	SL	0,05 g/l	3:2:1 (22) Supranure Plus	3246	Wonder
Flowers & Ornamentals	Growth enhancement	trace elements	SL	?	Nitrosol	3725	Fleuron
Flowers & Ornamentals (greenhouse)	Vegetative growth (growth suppression)	daminozide	SP	850 g/kg	B-Nine SP	4147	Arysta Lifescience SA
Flowers & Ornamentals (indoor plants, outdoor plants, trees, shrubs)	Plantgrowth stimulant	auxins	SL	2,2 mg/l	Kelp	2812	Wonder (Agro-Serve)
Flowers & Ornamentals (indoor plants, outdoor plants, trees, shrubs)	Plantgrowth stimulant	cytokinins	SL	0,0062 mg/l	Kelp	2812	Wonder (Agro-Serve)
Flowers & Ornamentals (Plantcuttings)		1-naphthyl-acetic acid	SL	5 g/l	Dip & Root	7554	PBR Trading International
Flowers & Ornamentals (Plantcuttings)		4-indol-3-ylbutyric acid	powder	3 g/kg	Dynaroot B No 2	7553	PBR Trading International
Flowers & Ornamentals (Plantcuttings)		4-indol-3-ylbutyric acid	SL	10 g/l	Dip & Root	7554	PBR Trading International
Flowers & Ornamentals (proteas)	Improve percentage seed germination	6-benzyl adenine/gibberellins	SL	19/19 g/l	Promalin	5119	Valent BioSciences (div Philagro)
Fruit trees (newly planted)	Reduces transplant shock and increases the growth	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Fruit trees (newly planted)	Reduces transplant shock and increases the growth	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products



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Grapes	Budbreaking characteristics (use with Partner)	ammoniated nitrates	AL	170 g/l	GAN	5574	Universal Crop Protection (Pty) Ltd
Grapes	Improves berry size, colour and sugar content of table grapes	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Grapes		cyanamide	SL	520 g/l	Alert 520 SL	9719	Villa Crop Protection (Pty) Ltd
Grapes	Delayed foliation	cyanamide	SL	520 g/l	Bloomer	7915	Nippon Africa Chemicals
Grapes	Even budbreak	cyanamide	SL	520 g/l	Cyan	9488	Chempac (Pty) Ltd
Grapes	Delayed foliation and advancement of budding in sultana grapes.	cyanamide	SL	520 g/l	Cymex	8204	Volcano Agrosience (Pty) Ltd t/a Arysta Lifescience SA (Pty) Ltd
Grapes	More even and increase in budding	cyanamide	SL	520 g/l	Deurbraak	7255	RT Chemicals (Erintrade)
Grapes	Even bud break	cyanamide	SL	520 g/l	Dorcy	7507	Almond Agrochemicals
Grapes	Even budbreak	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Grapes	Even budbreak	cyanamide	SL	520 g/l	Respond 520 SL	9718	Universal Crop Protection (Pty) Ltd
Grapes	Improves berry size, colour and sugar content of table grapes	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Grapes	Colour enhancement	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Grapes	Colour enhancement	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Grapes	Colour improvement	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Grapes	Colour improvement	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Grapes	Colour improvement	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Grapes	Increase berry size and decrease in berry abscission in tablegrapes	forchlorfenuron	EC	10 g/l	BerryMax	7754	Meridian Agrochemical Company (Pty) Ltd
Grapes	Increase berry size, decrease in berry abscission	forchlorfenuron	EC	10 g/l	Guliver 10 EC	7800	Almond Agro Chemicals
Grapes	Increase berry size and decrease in berry abscission in tablegrapes	forchlorfenuron	EC	10 g/l	Sitofex 10 EC	6339	Philagro SA (Pty) Ltd
Grapes	Increase berry size; decrease berry abscission	forchlorfenuron	SL	10 g/l	Ambitious	8908	Chempac (Pty) Ltd
Grapes	Enlarge berries and obtain a more even size berries	gibberellins	SG	400 g/kg	ProGibb 40 %	6777	Valent BioSciences
Grapes	Increase berry size and obtain a more even size berry	gibberellins	SL	32 g/l	Falgro 4 SL	6393	Universal Crop Protection (Pty) Ltd

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Grapes	Enlarge berries, obtain more even berry size	gibberellins	SL	32 g/l	ProGibb 4%	5118	Valent BioSciences
Grapes	Berry size increase, more uniform berry size	gibberellins	SL	32 g/l	Supagibb 4 SL	4898	Plaaskem (Gouws and Scheepers)
Grapes	Increase berry size and obtain more even size berry.	gibberellins	SP	200 g/kg	Falgro 20 SP	6394	Universal Crop Protection (Pty) Ltd
Grapes	Improved bunch quality	gibberellins	TB	100 g/kg	Gibb Tab	6175	RT Chemicals
Grapes	Increase berry size, more even berry size	gibberellins	TB	204 g/kg	Falgro Tablets	4503	Universal Crop Protection (Pty) Ltd
Grapes	For delayed foliation	h-cyanamide	SL	520 g/l	Bloomer	7522	Nippon Africa Chemicals (Pty) Ltd
Grapes		s-Absciscic Acid	SG	200 g/kg	ProTone SG	8540	Valent Biosciences
Grapes	Accelerate colouration in berries and bunches	s-Absciscic acid	SL	100 g/l	Excelero SL	10170	Valent BioSciences
Grapes (seedless)	Budbreaking characteristics (use with Partner)	ammoniated nitrates	AL	170 g/l	GAN	5574	Universal Crop Protection (Pty) Ltd
Grapes (seedless)	Berry size increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Grapes (seedless)		cyanamide	SL	520 g/l	Alert 520 SL	9719	Villa Crop Protection (Pty) Ltd
Grapes (seedless)	Advancement of budding	cyanamide	SL	520 g/l	Bloomer	7915	Nippon Africa Chemicals
Grapes (seedless)		cyanamide	SL	520 g/l	Cyan	9488	Chempac (Pty) Ltd
Grapes (seedless)	Delayed foliation and advancement of budding in sultana grapes.	cyanamide	SL	520 g/l	Cymex	8204	Volcano Agrosience (Pty) Ltd t/a Arysta Lifescience SA (Pty) Ltd
Grapes (seedless)	Advancement of budding	cyanamide	SL	520 g/l	Deurbraak	7255	RT Chemicals (Erintrade)
Grapes (seedless)	Advancement of bud break	cyanamide	SL	520 g/l	Dorcy	7507	Almond Agrochemicals
Grapes (seedless)	Advancement of budding	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Grapes (seedless)	Advancement of budding	cyanamide	SL	520 g/l	Respond 520 SL	9718	Universal Crop Protection (Pty) Ltd
Grapes (seedless)	Berry size increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Grapes (seedless)	Increase berry size	forchlorfenuron	EC	10 g/l	BerryMax	7754	Meridian Agrochemical Company (Pty) Ltd
Grapes (seedless)	Increase berry size	forchlorfenuron	EC	10 g/l	Sitofex 10 EC	6339	Philagro SA (Pty) Ltd
Grapes (seedless)	Bunch stretching. Berry thinning. Enlarge berries	gibberellins	SG	400 g/kg	ProGibb 40 %	6777	Valent BioSciences
Grapes (seedless)	Berry thinning, berry enlargement	gibberellins	SL	32 g/l	Falgro 4 SL	6393	Universal Crop Protection (Pty) Ltd
Grapes (seedless)	Berry size increase	gibberellins	SL	32 g/l	Gibb Liquid 4	6174	RT Chemicals
Grapes (seedless)	Berry thinning, berry enlargement	gibberellins	SL	32 g/l	ProGibb 4%	5118	Valent BioSciences

<b>Crop</b>	<b>Problem</b>	<b>Active/s</b>	<b>F/T</b>	<b>Conc</b>	<b>Product name</b>	<b>L No.</b>	<b>Company name</b>
Grapes (seedless)	Berry thinning, berry enlargement	gibberellins	SL	32 g/l	Supagibb 4 SL	4898	Plaaskem (Gouws and Scheepers)
Grapes (seedless)	Berry thinning, Enlarge berries	gibberellins	SP	200 g/kg	Falgro 20 SP	6394	Universal Crop Protection (Pty) Ltd
Grapes (seedless)	Berry thinning, berry enlargement	gibberellins	TB	204 g/kg	Falgro Tablets	4503	Universal Crop Protection (Pty) Ltd
Grapes (table)	Enhance ripening, improve yield (not for use in the Western Cape)	cytokinins	SP	0,18 mg/kg	Snow Grow Ace	7334	Sumitomo Corporation
Grasses	Chemical mowing	fluazifop-p-butyl	EC	125 g/l	Fusilade Super	1823	Syngenta SA (Pty) Ltd
Grasses	Chemical mowing	fluazifop-p-butyl	EC	150 g/l	Fusilade Forte	7304	Syngenta SA (Pty) Ltd
Grasses	Chemical mowing	glyphosate	SL		Roundup Turbo	7166	Monsanto SA (Pty) Ltd
Grasses	Chemical mowing	glyphosate (ammonium) a.e.	SG	680 g/kg	Roundup Max	6790	Monsanto SA (Pty) Ltd
Grasses		glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Bounty SL	7268	Meridian Agritech
Grasses	Chemical mowing	glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Glyphogan 360 SL	5393	Makhteshim-Agan
Grasses	Chemical mowing	glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Mamba 360 SL	4817	Dow AgroSciences SA (Pty) Ltd
Grasses	Chemical mowing	glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Roundup	407	Monsanto SA (Pty) Ltd
Grasses	Chemical mowing	glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Scat 360 SL	5716	Universal Crop Protection (Pty) Ltd
Grasses	Chemical mowing	glyphosate (isopropylamine salt) a.e.	SL	480 g/l	Mamba Max 480 SL	7714	Dow AgroSciences SA (Pty) Ltd
Grasses	Chemical mowing	glyphosate (potassium) a.e.	SL	500 g/l	Touchdown Forte HiTech	7305	Syngenta SA (Pty) Ltd
Grasses	Chemical mowing	glyphosate (sodium) a.e.	WG	500 g/kg	Kilo WSG	7431	Volcano Agrosience (Pty) Ltd
Grasses (chemical mowing)		glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Glyphosate 360 Acid	4454	Monsanto SA (Pty) Ltd

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Grasses (chemical mowing)		glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Roundup Ultra	6068	Monsanto SA (Pty) Ltd
Grazing	Stimulates dry matter production of winter ryegrass under rotational grazing	gibberellins	WG	400 g/kg	RyzUp SmartGrass	xx	Valent BioSciences
Groundnuts	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Groundnuts	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Hops	Burn down agent.	diquat dibromide	SL	80 g/l	Preeglone	3304	Syngenta SA (Pty) Ltd
Hops	Improve yield by enhancing growth in spring and for a shorter and more even hop training period	gibberellins	SG	400 g/kg	ProGibb 40 %	6777	Valent BioSciences
Hops	Improve yield, shorter and more even hop trellising period	gibberellins	SL	32 g/l	Falgro 4 SL	6393	Universal Crop Protection (Pty) Ltd
Hops	Improve yield, shorter and more even hop training period	gibberellins	SL	32 g/l	ProGibb 4%	5118	Valent BioSciences
Hops	Improve yield by enhancing growth in spring and for a shorter and more even hop trellising period	gibberellins	SP	200 g/kg	Falgro 20 SP	6394	Universal Crop Protection (Pty) Ltd
Hops	Improve yield, shorter and more even op trellising period	gibberellins	TB	204 g/kg	Falgro Tablets	4503	Universal Crop Protection (Pty) Ltd
Hops	Burn down agent.	paraquat dichloride	SL	120 g/l	Preeglone	3304	Syngenta SA (Pty) Ltd
Hops	Burn down agent	paraquat dichloride	SL	200 g/l	Gramoxone	1174	Syngenta SA (Pty) Ltd
Kiwi fruit	Delayed foliation	cyanamide	SL	520 g/l	Bloomer	7915	Nippon Africa Chemicals
Kiwi fruit		cyanamide	SL	520 g/l	Cyan	9488	Chempac (Pty) Ltd
Kiwi fruit	Delayed foliation	cyanamide	SL	520 g/l	Cymex	8204	Volcano Agrosience (Pty) Ltd t/a Arysta Lifescience SA (Pty) Ltd
Kiwi fruit	More even and increase in budding	cyanamide	SL	520 g/l	Deurbraak	7255	RT Chemicals (Erintrade)
Kiwi fruit	Delayed foliation	cyanamide	SL	520 g/l	Dorcy	7507	Almond Agrochemicals
Kiwi fruit	Delayed foliation	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Kiwi fruit	Increasing fruit size	forchlorfenuron	EC	10 g/l	Guliver 10 EC	7800	Almond Agro Chemicals
Kiwi fruit	Increase fruit size	forchlorfenuron	EC	10 g/l	Sitofex 10 EC	6339	Philagro SA (Pty) Ltd
Kiwi fruit	For delayed foliation	h-cyanamide	SL	520 g/l	Bloomer	7522	Nippon Africa Chemicals (Pty) Ltd
Kiwi fruit		methylcyclopropene	TB	6,3 g/kg	SmartFresh SmartTabs	7272	Rohm & Haas

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Lawns	Retardation of foliar growth	trinexapac-ethyl	ME	120 g/l	Clipless	8530	Cheminova
Lawns	Growth suppression	trinexapac-ethyl	ME	120,9 g/l	Primo Maxx	6900	Syngenta SA (Pty) Ltd
Lettuce	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Lettuce	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Litchis	Fruit size improvement	3,5,6 TPA	TB	100 g/kg	Maxim	7297	Arysta Lifescience SA (Pty) Ltd
Litchis		ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Litchis	Vegetative growth control	paclobutrazol	SC	250 g/l	Avocet	7368	Universal Crop Protection (Pty) Ltd
Litchis	Vegetative growth control	paclobutrazol	SC	250 g/l	Cultar	3693	Syngenta SA (Pty) Ltd
Lucerne	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Lucerne	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Lupins	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Lupins	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Lupins	Minimise pod shatter during harvest	polymers of cyclohexane	SL	935 g/l	Pod-Ceal	8275	Miller Chemicals SA
Macadamia nuts	Vegetative growth control	paclobutrazol	SC	250 g/l	Avocet	7368	Universal Crop Protection (Pty) Ltd
Macadamia nuts	Vegetative growth control	paclobutrazol	SC	250 g/l	Cultar	3693	Syngenta SA (Pty) Ltd
Macadamias		ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Macadamias	Promote abscission of nuts	ethephon	SL	480 g/l	Ethapon 480 SL	4776	Villa Crop Protection
Maize	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Maize	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Maize	Reduce lodging	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Maize	Reducing capsizing	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Maize	Reduce lodging	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Mangoes	Sunburn; Heat damage	boron/calcium	SL	1/250 g/l	Shade	10007	Universal Crop Protection
Mangoes	Inhibit flowering of young trees	gibberellins	SG	400 g/kg	ProGibb 40 %	6777	Valent BioSciences
Mangoes	Inhibit flowering	gibberellins	SL	32 g/l	Falgro 4 SL	6393	Universal Crop Protection (Pty) Ltd
Mangoes	Inhibit the flowering of young trees	gibberellins	SL	32 g/l	ProGibb 4%	5118	Valent BioSciences
Mangoes	Inhibition of flowering	gibberellins	SL	32 g/l	Supagibb 4 SL	4898	Plaaskem (Gouws and Scheepers)
Mangoes	Inhibit flowering of young trees	gibberellins	SP	200 g/kg	Falgro 20 SP	6394	Universal Crop Protection (Pty) Ltd
Mangoes	Inhibit flowering	gibberellins	TB	204 g/kg	Falgro Tablets	4503	Universal Crop Protection (Pty) Ltd
Mangoes	Vegetative growth control	paclobutrazol	SC	250 g/l	Avocet	7368	Universal Crop Protection (Pty) Ltd
Mangoes	Vegetative growth control	paclobutrazol	SC	250 g/l	Cultar	3693	Syngenta SA (Pty) Ltd
Nectarines	Blossom thinning	alkoxylated fatty alkylamine polymer	EC	1000 g/l	Armothin	5641	Universal Crop Protection (Pty) Ltd

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Nectarines	Vegetative growth control	paclobutrazol	SC	250 g/l	Avocet	7368	Universal Crop Protection (Pty) Ltd
Nectarines	Vegetative growth control	paclobutrazol	SC	250 g/l	Cultar	3693	Syngenta SA (Pty) Ltd
Nectarines	Delay fruit maturity (harvest)	S)-trans-2-amino-4-(2-aminoethoxy)-3-butenoic acid hydrochloride	SP	150 g/kg	ReTain	6141	Valent BioSciences (div Philagro)
Nut like seeds	Improved seed germination	6-benzyl adenine/gibberellins	SL	19/19 g/l	Gibbalin	9105	Globachem NV (Disa Bio-Technologies CC)
Oats	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Oats	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Onions	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Onions	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Onions	Suppression of sprouting in stored onions (Western Cape)	maleic hydrazide	SL	250 g/l	Royal MH 30 SL	6081	Arysta Lifescience SA
Onions	Suppression of sprouting	maleic hydrazide	WG	800 g/kg	Fazor WSG	7012	Arysta Lifescience SA
Onions	Leaf dessicant	sodium chlorate	SL	400 g/l	Bladval Ultra	6588	Plaaskem (Gouws and Scheepers)
Peaches	Blossom thinning	alkoxylated fatty alkylamine polymer	EC	1000 g/l	Armothin	5641	Universal Crop Protection (Pty) Ltd
Peaches	Maturity enhancement	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Peaches	Enhancement of maturity	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Peaches	Enhancement of maturity	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Peaches	Enhancement of maturity	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Peaches	Enhancement of maturity	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Peaches	Vegetative growth control	paclobutrazol	SC	250 g/l	Avocet	7368	Universal Crop Protection (Pty) Ltd
Peaches	Vegetative growth control	paclobutrazol	SC	250 g/l	Cultar	3693	Syngenta SA (Pty) Ltd
Peaches	Delay fruit maturity (harvest)	S)-trans-2-amino-4-(2-aminoethoxy)-3-butenoic acid hydrochloride	SP	150 g/kg	ReTain	6141	Valent BioSciences (div Philagro)
Pears	Prevent premature fruit drop	1-naphthylactic acid	SL	45 g/l	Planofix	531	Bayer
Pears	Fruit thinning and increasing fruit mass of individual fruit	6-benzyl adenine	SL	19 g/l	MaxCel	7876	Valent Biosciences
Pears	Reduction of excessive shoot growth and improved fruit set.	chlormequat chloride	SL	750 g/l	CeCeCe	3068	BASF SA (Pty) Ltd
Pears		cyanamide	SL	520 g/l	Alert 520 SL	9719	Villa Crop Protection (Pty) Ltd
Pears	Delayed foliation	cyanamide	SL	520 g/l	Bloomer	7915	Nippon Africa Chemicals
Pears		cyanamide	SL	520 g/l	Cyan	9488	Chempac (Pty) Ltd

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Pears	Delayed foliation	cyanamide	SL	520 g/l	Cymex	8204	Volcano Agrosience (Pty) Ltd t/a Arysta Lifescience SA (Pty) Ltd
Pears	Improved foliation	cyanamide	SL	520 g/l	Deurbraak	7255	RT Chemicals (Erintrade)
Pears	Delayed foliation.	cyanamide	SL	520 g/l	Dorcy	7507	Almond Agrochemicals
Pears	Delayed foliation	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Pears		cyanamide	SL	520 g/l	Respond 520 SL	9718	Universal Crop Protection (Pty) Ltd
Pears	Delayed foliation	dinocap	EC	350 g/l	Karathane 350 EC	5059	Dow AgroSciences SA (Pty) Ltd
Pears	Forelle. Improve fruit set	gibberellins	SG	400 g/kg	ProGibb 40 %	6777	Valent BioSciences
Pears	Improve fruit set	gibberellins	SL	32 g/l	Falgro 4 SL	6393	Universal Crop Protection (Pty) Ltd
Pears	Improved sprouting	gibberellins	SL	32 g/l	Gibb Liquid 4	6174	RT Chemicals
Pears	Improve fruit set	gibberellins	SL	32 g/l	ProGibb 4%	5118	Valent BioSciences
Pears	Forelle. Improve fruit set.	gibberellins	SP	200 g/kg	Falgro 20 SP	6394	Universal Crop Protection (Pty) Ltd
Pears	Improve fruit set	gibberellins	TB	204 g/kg	Falgro Tablets	4503	Universal Crop Protection (Pty) Ltd
Pears	For delayed foliation	h-cyanamide	SL	520 g/l	Bloomer	7522	Nippon Africa Chemicals (Pty) Ltd
Pears	Chemical fruit thinning	metamitron	SC	150 g/l	Nevis 150 SC	9748	Adama SA (Pty) Ltd
Pears	Delayed foliation	mineral oil	EC	855 g/l	Ampron	6125	H&R South Africa Sales (Pty) LTd
Pears	Delayed foliation	mineral oil	EC	857 g/l	Budbreak	5951	Nulandis
Pears		mineral oil	EC	869,3 g/l	Apple Winter Oil	7921	Almond Agrochemicals
Pears	Delayed foliation	mineral oil	EC	869,3 g/l	Awakening Oil	7917	Tsunami Plant Protection (Pty) Ltd
Pears	Delayed foliation	mineral oil (heavy grade)	EC	864 g/l	86% Winter Oil	4890	Cropchem
Pears		mineral oil (medium grade)	EC	720g/l	Pestridol	1255	Applied Agricultural Products (div Plaaskem)
Pears	Rectification of delayed foliation	soybean oil	EC	850 g/l	Mprove Oil	9668	Natrol (Pty) Ltd
Pears	Control of delayed foliation	thidiazuron	EC	3 g/l	Lift	7102	Almond Agro Chemicals
Peas	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Peas	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Peas	Minimise pod shatter during harvest	polymers of cyclohexane	SL	935 g/l	Pod-Ceal	8275	Miller Chemicals SA
Pecan nuts	Vegetative growth control	paclobutrazol	SC	250 g/l	Avocet	7368	Universal Crop Protection (Pty) Ltd
Pecan nuts	Vegetative growth control	paclobutrazol	SC	250 g/l	Cultar	3693	Syngenta SA (Pty) Ltd
Peppers & Pepperdews	Stimulate vegetative growth, reduce sunburn	gibberellins	SL	32 g/l	ProGibb 4%	5118	Valent BioSciences
Pineapples	Induction of flowering, uniformity of crop growth, prevent premature fruit drop	1-naphthylactic acid	SL	45 g/l	Planofix	531	Bayer
Pineapples	Sunburn; Heat damage	boron/calcium	SL	1/250 g/l	Shade	10007	Universal Crop Protection

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Pineapples	Improve shape and size, delay ripening	cloprop	SL	80 g/l	Swelpine	2717	Applied Agricultural Products (Nulandis)
Pineapples	Fruit colouring. Flower induction	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Pineapples	Colouring of fruit, induce flowering	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Pineapples		ethephon	SL	480 g/l	Ethephon	6059	GAP Chemicals
Pineapples	Colouring of fruit, induce flowering	ethephon	SL	480 g/l	Ethephon	6882	Volcano Agrosience (Pty) Ltd
Pineapples	Colouring of fruit, induce flowering	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Pineapples	Colouring of fruit, induce flowering	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Pineapples	Colouring of fruit, induce flowering	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Pineapples	Colouring of fruit, induce flowering	ethephon	SL	480 g/l	Ripen-It	6261	RT Chemicals
Plums	Feathering agent, increased budding	6-benzyl adenine/gibberellins	SL	19/19 g/l	Elppa	6160	RT Chemicals
Plums	Lateral branching; Improvement of bud break	6-benzyl adenine/gibberellins	SL	19/19 g/l	Gibbalin	9105	Globachem NV (Disa Bio-Technologies CC)
Plums	Feathering agent, increase budding	6-benzyl adenine/gibberellins	SL	19/19 g/l	Perlan	5778	Universal Crop Protection (Pty) Ltd
Plums	Lateral branching, improvement of bud break	6-benzyl adenine/gibberellins	SL	19/19 g/l	Promalin	5119	Valent BioSciences (div Philagro)
Plums	Blossom thinning	alkoxylated fatty alkylamine polymer	EC	1000 g/l	Armothin	5641	Universal Crop Protection (Pty) Ltd
Plums		cyanamide	SL	520 g/l	Alert 520 SL	9719	Villa Crop Protection (Pty) Ltd
Plums	Delayed foliation	cyanamide	SL	520 g/l	Bloomer	7915	Nippon Africa Chemicals
Plums		cyanamide	SL	520 g/l	Cyan	9488	Chempac (Pty) Ltd
Plums	Delayed foliation	cyanamide	SL	520 g/l	Cymex	8204	Volcano Agrosience (Pty) Ltd t/a Arysta Lifescience SA (Pty) Ltd
Plums	More even and increase in budding	cyanamide	SL	520 g/l	Deurbraak	7255	RT Chemicals (Erintrade)
Plums	Delayed foliation	cyanamide	SL	520 g/l	Dorcy	7507	Almond Agrochemicals
Plums	Delayed foliation	cyanamide	SL	520 g/l	Dormex	5740	Philagro SA (Pty) Ltd
Plums		cyanamide	SL	520 g/l	Respond 520 SL	9718	Universal Crop Protection (Pty) Ltd
Plums	Advancement and uniform ripening	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd



Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Plums	Advanced and more uniform ripening	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Plums	Advanced and more uniform ripening	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Plums	Advanced and more uniform ripening	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Plums	Advanced and more uniform ripening	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Plums	For delayed foliation	h-cyanamide	SL	520 g/l	Bloomer	7522	Nippon Africa Chemicals (Pty) Ltd
Plums		methylcyclopropene	TB	6,3 g/kg	SmartFresh SmartTabs	7272	Rohm & Haas
Plums	Delayed foliation	mineral oil	EC	855 g/l	Ampron	6125	H&R South Africa Sales (Pty) LTd
Plums	Delayed foliation	mineral oil	EC	857 g/l	Budbreak	5951	Nulandis
Plums		mineral oil	EC	869,3 g/l	Apple Winter Oil	7921	Almond Agrochemicals
Plums	Delayed foliation	mineral oil	EC	869,3 g/l	Awakening Oil	7917	Tsunami Plant Protection (Pty) Ltd
Plums	Delayed foliation	mineral oil (heavy grade)	EC	864 g/l	86% Winter Oil	4890	Cropchem
Plums		mineral oil (medium grade)	EC	720g/l	Pestridol	1255	Applied Agricultural Products (div Plaaskem)
Plums	Vegetative growth control	paclobutrazol	SC	250 g/l	Avocet	7368	Universal Crop Protection (Pty) Ltd
Plums	Vegetative growth control	paclobutrazol	SC	250 g/l	Cultar	3693	Syngenta SA (Pty) Ltd
Plums	Delay fruit maturity (havest)	S)-trans-2-amino-4-(2-aminoethoxy)-3-butenoic acid hydrochloride	SP	150 g/kg	ReTain	6141	Valent BioSciences (div Philagro)
Plums	Control of delayed foliation	thidiazuron	EC	3 g/l	Lift	7102	Almond Agro Chemicals
Potatoes	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Potatoes		auxins	SL	45 mg/l	Marinure DS Seaweed Foliar Spray	6211	TL Organichem
Potatoes	Prevents sprouting and root development during storage	chlorpropham	DP	10 g/kg	Neo-Stop	6161	Arysta Lifescience SA
Potatoes	Prevents sprouting and root development during storage	chlorpropham	HN	500 g/l	Neostop 500 HN	6467	Arysta Lifescience SA
Potatoes	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Potatoes		cytokinins	SL	30 mg/l	Marinure DS Seaweed Foliar Spray	6211	TL Organichem

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Potatoes	Haulm destruction	diquat	SL	200 g/l	Disrupt 200 SL	9180	Villa Crop Protection (Pty) Ltd
Potatoes	Haulm destruction	diquat	SL	200 g/l	Disturb 200 SL	9181	Universal Crop Protection (Pty) Ltd
Potatoes	Haulm destruction	diquat	SL	200 g/l	Scuba 200 SL	8242	Arysta Lifescience SA
Potatoes	Haulm destruction	diquat dibromide	SL	200 g/l	Midstream	4532	Syngenta SA (Pty) Ltd
Potatoes	Haulm destruction	diquat dibromide	SL	200 g/l	Reglone	1115	Syngenta SA (Pty) Ltd
Potatoes	Improve sprouting of tubers.	gibberellins	SG	400 g/kg	ProGibb 40 %	6777	Valent BioSciences
Potatoes	Improve sprouting	gibberellins	SL	32 g/l	Falgro 4 SL	6393	Universal Crop Protection (Pty) Ltd
Potatoes	Improved sprouting	gibberellins	SL	32 g/l	Gibb Liquid 4	6174	RT Chemicals
Potatoes	Improve sprouting	gibberellins	SL	32 g/l	ProGibb 4%	5118	Valent BioSciences
Potatoes	Improve sprouting	gibberellins	SL	32 g/l	Supagibb 4 SL	4898	Plaaskem (Gouws and Scheepers)
Potatoes	Improve sprouting of tubers	gibberellins	SP	200 g/kg	Falgro 20 SP	6394	Universal Crop Protection (Pty) Ltd
Potatoes	Improved sprouting	gibberellins	TB	100 g/kg	Gibb Tab	6175	RT Chemicals
Potatoes	Improve sprouting	gibberellins	TB	204 g/kg	Falgro Tablets	4503	Universal Crop Protection (Pty) Ltd
Potatoes	Haulm destruction	glufosinate-ammonium	SL	200 g/l	Basta	4872	Bayer (Pty) Ltd
Potatoes	Haulm destruction	paraquat	SL	200 g/l	Ciplaquat 200	4167	Cipla Agricare
Potatoes	Haulm destruction	paraquat	SL	200 g/l	Nexus Paraquat SL	8085	Arysta Lifescience SA (Pty) Ltd
Potatoes	Haulm destruction	paraquat	SL	200 g/l	Paraquat 200 SL	9085	Meridian Agrochemical Co. (Pty) Ltd
Potatoes		paraquat dichloride	SL	145 g/l	Skoffel	4347	Universal Crop Protection (Pty) Ltd
Potatoes	Haulm destruction	paraquat dichloride	SL	200 g/l	Agriquat 200 SL	6297	Nulandis
Potatoes	Haulm destruction	paraquat dichloride	SL	200 g/l	Agroquat	4607	Arysta Lifescience SA
Potatoes	Haulm destruction	paraquat dichloride	SL	200 g/l	Avi Parakwat	4461	Avima
Potatoes	Haulm desiccation	paraquat dichloride	SL	200 g/l	Paragone 200 SL	4588	Nulandis
Potatoes		paraquat dichloride	SL	200 g/l	Paraquat	167	WPK Landbou
Potatoes		paraquat dichloride	SL	200 g/l	Paraquat	4510	Cropchem
Potatoes	Haulm destruction	paraquat dichloride	SL	200 g/l	Paraquat 200	7650	Erintrade t/a RT Chemicals
Potatoes	Haulm destruction	paraquat dichloride	SL	200 g/l	Paraquat SL	2215	Arysta Lifescience SA
Potatoes	Haulm destruction	paraquat dichloride	SL	200 g/l	Skoffel 200 Super	6328	Universal Crop Protection (Pty) Ltd
Potatoes	Haulm destruction	paraquat dichloride	SL	274 g/l	Agroquat 200 SL	4871	Nulandis
Potatoes		sodium chlorate	SL	400 g/l	Zed	6289	Plaaskem (Gouws and Scheepers)
Potplants	Liquid plantfood with growth stimulant	fertilizer	SL	?	3:2:1 (22) Supranure Plus	3246	Wonder
Potplants	Liquid plantfood with growth stimulant	indolylacetic acid	SL	0,05 g/l	3:2:1 (22) Supranure Plus	3246	Wonder
Soy beans	Growth enhancement system	bacillus subtilis rhizobial inoculant	ULV	1,0 x 10e10 viable cells/ml	RhizoFlo Professional	9352	BASF SA
Soy beans	Minimise pod shatter during harvest	polymers of cyclohexane	SL	935 g/l	Pod-Ceal	8275	Miller Chemicals SA

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Sugarcane	Desiccation	diquat dibromide	SL	200 g/l	Reglone	1115	Syngenta SA (Pty) Ltd
Sugarcane	Increase sucrose content	ethephon	SL	480 g/l	Effon 480 SL	5536	Gouws and Scheepers (Pty) Ltd
Sugarcane	Increase sucrose content	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Sugarcane		ethephon	SL	480 g/l	Ethephon	6059	GAP Chemicals
Sugarcane	Increase sucrose content	ethephon	SL	480 g/l	Ethephon	6882	Volcano Agrosience (Pty) Ltd
Sugarcane	Increase sucrose content	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Sugarcane	Increase sucrose content	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Sugarcane	Increase sucrose content	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Sugarcane	Increase sucrose content	ethephon	SL	480 g/l	Ripen-It	6261	RT Chemicals
Sugarcane	Ripener	fluazifop-P-butyl	EC	125 g/l	Fluent 125 EC	9676	Sharda International Africa
Sugarcane	Ripener	fluazifop-p-butyl	EC	125 g/l	Fluzade	7775	Erintrade CC t/a R.T. Chemicals
Sugarcane	Ripener	fluazifop-P-butyl	EC	125 g/l	Fluzie	9460	Meridian Agrochemical Co. (Pty) Ltd
Sugarcane	Ripener	fluazifop-p-butyl	EC	125 g/l	Fusilade Super	1823	Syngenta SA (Pty) Ltd
Sugarcane	Ripener	fluazifop-P-butyl	EC	125 g/l	Orca 125 EC	9560	Cedar Falls Properties 130 (Pty) Ltd
Sugarcane	Ripener	fluazifop-p-butyl	EC	125 g/l	Volley 125 EC	8309	Volcano Agrosience t/a Arysta Lifescience
Sugarcane	Sugarcane ripener	fluazifop-p-butyl	EC	150 g/l	Fusilade Forte	7304	Syngenta SA (Pty) Ltd
Sugarcane	Ripening	glyphosate	SL		Roundup Turbo	7166	Monsanto SA (Pty) Ltd
Sugarcane	Ripening	glyphosate (ammonium) a.e.	SG	680 g/kg	Roundup Max	6790	Monsanto SA (Pty) Ltd
Sugarcane		glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Bounty SL	7268	Meridian Agritech
Sugarcane		glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Glyphosate 360 Acid	4454	Monsanto SA (Pty) Ltd
Sugarcane	Ripening	glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Mamba 360 SL	4817	Dow AgroSciences SA (Pty) Ltd
Sugarcane	Ripening	glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Roundup	407	Monsanto SA (Pty) Ltd
Sugarcane		glyphosate (isopropylamine salt) a.e.	SL	360 g/l	Roundup Ultra	6068	Monsanto SA (Pty) Ltd

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Sugarcane	Ripening	glyphosate (isopropylamine salt) a.e.	SL	480 g/l	Mamba Max 480 SL	7714	Dow AgroSciences SA (Pty) Ltd
Sugarcane	Ripening	haloxyfop-R-methyl ester	EC	108 g/l	Gallant Super	4962	Dow AgroSciences SA (Pty) Ltd
Sugarcane	Desiccation	paraquat	SL	200 g/l	Paraquat 200 SL	9085	Meridian Agrochemical Co. (Pty) Ltd
Sugarcane	Desiccation	paraquat dichloride	SL	200 g/l	Avi Parakwat	4461	Avima
Sugarcane	Desiccation	paraquat dichloride	SL	200 g/l	Paraquat 200	7650	Erintrade t/a RT Chemicals
Sugarcane	Increase sucrose content	trinexapac-ethyl	EC	250 g/l	Moddus	8565	Syngenta SA (Pty) Ltd
Sultana	Advancement of budding	h-cyanamide	SL	520 g/l	Bloomer	7522	Nippon Africa Chemicals (Pty) Ltd
Sunflowers	Desiccation	diquat	SL	200 g/l	Disrupt 200 SL	9180	Villa Crop Protection (Pty) Ltd
Sunflowers	Desiccation	diquat	SL	200 g/l	Disturb 200 SL	9181	Universal Crop Protection (Pty) Ltd
Sunflowers	Desiccation	diquat	SL	200 g/l	Scuba 200 SL	8242	Arysta Lifescience SA
Sunflowers	Desiccation	diquat dibromide	SL	200 g/l	Midstream	4532	Syngenta SA (Pty) Ltd
Sunflowers	Desiccation	diquat dibromide	SL	200 g/l	Reglone	1115	Syngenta SA (Pty) Ltd
Tobacco	Sucker control	butralin	EC	360 g/l	Tobago	5180	Nufarm Agriculture (Pty) Ltd
Tobacco	Sucker growth control	chlorthal-dimethyl	SC	360 g/l	Erazor	4064	Universal Crop Protection (Pty) Ltd
Tobacco		decan-1-ol	SL	790 g/l	Suckeride	4511	Cropchem
Tobacco	Control of tobacco suckers	decan-1-ol/octan-1-ol	EC	400/300 g/l	C8-10 EC	4465	Universal Crop Protection (Pty) Ltd
Tobacco	Uniform ripening and shorter harvest period	ethephon	SL	480 g/l	Ethapon SL	5023	Applied Agricultural Products (Nulandis)
Tobacco	Uniform ripening and improved curing efficiency	ethephon	SL	480 g/l	Ethrel	2125	Bayer
Tobacco	Suckers	flumetralin	EC	150 g/l	Genco 150 EC	10172	Villa Crop Protection (Pty) Ltd
Tobacco	Control of tobacco suckers	n-decan-1-ol/n-octan-1- ol	EC	400/300 g/l	Fair 85	5176	Tsunami Plant Protection (Pty) Ltd
Tobacco	Sucker control agent	n-decanol	EC	670 g/l	Royaltac N	1968	Arysta Lifescience SA
Tobacco	Control of suckers	n-decanol	EC	690 g/l	Antak	7250	Villa Crop Protection
Tobacco	Suckeride	n-decanol	EC	690 g/l	Deca Suckeride 690 EC	724	Avima
Tobacco	Control of tobacco suckers	n-decanol	EC	690 g/l	Decanol EC	4464	Universal Crop Protection (Pty) Ltd
Tobacco	Control of tobacco suckers	octan-1-ol	EC	300 g/l	Fair 85	5176	Tsunami Plant Protection (Pty) Ltd
Tobacco	Sucker growth control in flue-cured and air-dried tobacco.	pendimethalin	EC	330 g/l	Accotab	962	BASF SA (Pty) Ltd
Tobacco	Sucker growth control in flue-cured and air-dried tobacco	pendimethalin	EC	330 g/l	Bacstop 330 EC	6529	Villa Crop Protection
Tobacco	Sucker growth control	pendimethalin	EC	330 g/l	Topout	3706	BASF SA (Pty) Ltd

Crop	Problem	Active/s	F/T	Conc	Product name	L No.	Company name
Tomatoes	Yield increase and prolongs shelf life.	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Tomatoes	Yield increase and prolongs shelf life.	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Tomatoes		methylcyclopropene	TB	6,3 g/kg	SmartFresh SmartTabs	7272	Rohm & Haas
Vegetables	Plant growth stimulant	auxins	SL	2,2 mg/l	Kelpak	5756	Starke Ayres
Vegetables	Plant growth stimulant	cytokinins	SL	0,0062 mg/l	Kelpak	5756	Starke Ayres
Vineyards (newly planted)	Reduces transplant shock and increases the growth	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Vineyards (newly planted)	Reduces transplant shock and increases the growth	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Wheat	Yield increase	auxins	SL	11 mg/l	Kelpak	2414	Kelp Products
Wheat		auxins	SL	45 mg/l	Marinure DS Seaweed Foliar Spray	6211	TL Organichem
Wheat	Reduction of lodging and wind damage.	chlormequat chloride	SL	750 g/l	CeCeCe	3068	BASF SA (Pty) Ltd
Wheat	Yield increase	cytokinins	SL	0,031 mg/l	Kelpak	2414	Kelp Products
Wheat		cytokinins	SL	30 mg/l	Marinure DS Seaweed Foliar Spray	6211	TL Organichem
Wheat	Reduce the incidence of lodging	ethephon	SL	480 g/l	Ethephon 480 SL	4776	Villa Crop Protection
Wheat	Reduce the incidence of lodging	ethephon	SL	480 g/l	Ethephon 480 SL	7511	Universal Crop Protection (Pty) Ltd
Wheat	Root development and improvement	trichoderma harzianum	SP	2x10(9) spores/g	Tri-Cure SP	9425	Natrol (Pty) Ltd
Wheat	Root development and improvement	trichoderma harzianum		2x10(9) spores/gram	Tri-Cure	8295	Natrol (Pty) Ltd