

## Greenhouse Chemicals

### Regarding Purchase of Chemicals

Due to legislative acts by Alberta Environment, the following conditions **MUST** be met in order for **ANY** chemicals to be purchased from *The Professional Gardener Co. Ltd.*

- For any use **within a city or incorporated limit** OR **on any property open to the public**: A VALID Pesticide Applicator's License must be presented at the time of purchase, or a supervisor's Pesticide Applicator's License information given. This information includes the full name of the applicator, the license number and the full expiry date. If the purchaser has an account with Professional Gardener, this information can be kept in the account's file.
- For application **within a greenhouse OUTSIDE a city or incorporated limit**, OR **for an acreage of 2 acres (1 hectare) or more**:

The owner of the property must purchase the chemical AND provide a legal land description. If the owner is having someone else pick up the material, the legal land description must still be provided. The legal land description is based on the Alberta Township System (ATS), can be found on a legal land document or utility bill and will include the Quarter, Section, Township, Range and Meridian. For example: **SW 24-38-20-W5** means the southwest quarter of section 24, township 38, range 20, west of the 5th Meridian.

#### Miticides

<b>Avid 1.9 E.C (abamectin)</b>	Controls spider mite & leafminer on greenhouse ornamentals & vegetables. Takes 3-4 days to take effect injurious to Shasta daisies.	1L CH20110
<b>Vendex 50wp (fenbutatin-oxide)</b>	Controls two spotted mites on cucumber & Tomatoes. Non-toxic to bees & not highly injurious to beneficial mites.	750 grams CH20170
<b>Dyno-mite 75wp (pyridaben)</b>	Controls two spotted mites & sweet potato whitefly on greenhouse ornamentals & vegetables. Protection for 21 or more days. On poinsettia apply before October Bract formation. Cucumber & tomatoes 2 days before harvest. Peppers 3 days before harvest.	10 X 28 grams CH20116
<b>Dormant oil</b>	Controls spider mite & scale.	4L CH41110,

#### Insecticides

<b>Diazinon 50WP</b>	Phosphate insecticide that controls aphids, leafminer, carnation bud mites, sow bugs chinch bugs, scale & mealy bug. Injurious to gardenia, poinsettia, hibiscus, stephanotis, pileas & hydrangea.	2 Kg CH15190
<b>Decis 5.0 E.C (deltamethrin)</b>	A synthetic pyrethroid for western flower Thrip. Registered for chrysanthemum, cineraria, Easter lilies & geraniums.	1L CH15521
<b>Enstar II (s-Kinoprene)</b>	Insect growth regulator that controls whiteflies & aphids. <b>Not registered for vegetables.</b> Avoid spraying open blooms buds or bracts. <i>Enstar</i> kills eggs, inhibits egg laying, sterilizes adults & at higher rates kills adults. Injury may occur on poinsettia bracts or delay roses.	1L CH15227
<b>Safer's Soap 50.5%</b>	Low toxicity chemical to control aphids, whiteflies, mealy bugs & mites. 1L CH15340 — 4L CH15360 — 10L CH15350	
<b>Malathion 50EC, 25WP</b>	Organo-phosphate for control of scale, whiteflies, mealy bugs, mites & aphids. <i>Do not</i> use on ferns, petunias some roses & carnation varieties	2 Kg CH15260 10L CH15270
<b>Thiodan 4ec. 50wp. (endosulfan)</b>	Controls aphids & cyclamen mites. May injure some geranium & chrysanthemum varieties.	10L CH15420

<b>Tristar 70 WP</b>	Controls aphids & whitefly on ornamentals in greenhouse & nursery stock. Do not apply to fruit bearing trees or vegetables. <i>Not more than two applications per year</i> in greenhouses, shade & lath houses.	6 X 16 grams CH15425
<b>Trounce (soap 20%, pyrethrins 0.2%)</b>	May be used on edible crops, trees, ornamentals, flowers, shrubs & vegetables. Kills leafhoppers, earwigs, beetles & whitefly.	1L CH15530 4L CH15535 10L CH15540
<b>Intercept 60WP (imidacloprid)</b>	Highly effective systemic on aphids & whitefly on containerized ornamental & greenhouse tomatoes, cucumber & poinsettia. Can only be applied once per crop year. <i>Dyno-mite</i> can be used in a rotational program for long term crops.	250 grams CH15224
<b>Dimilin (defubrnzuron)</b>	An insect growth regulator for the control of fungus gnats & shoreflies. Do not use on poinsettia, hibiscus or reiger begonia.	500 grams CH15155
<b>Dibrom (naled)</b>	For use on roses, tomatoes, cucumber & greenhouse crops. Apply directly to steam lines or on hot plate.	1 US gallon CH15200
<b>Fungicides</b>		
<b>Daconil 2787 (chlorothalonil)</b>	Excellent fungicide for the control of black spot, blossom blight, powdery mildew, botrytis on roses & other greenhouse crops. Applications should be repeated on a 7-day schedule during periods of wet weather.	10L CH60140
<b>Ferbam (fermate)</b>	An economical fungicide for controlling a variety of rots & rusts. For use of botrytis on greenhouse lettuce, tomatoes & cucumber.	4.54 Kg CH30341
<b>Maestro 80W (re: Captan)</b>	Virtually dust free, free flowing, a fine uniform sprayable suspension. Approved for a variety of fruits, tomatoes, cucumbers & ornamentals.	1 Kg CH30142
<b>Compass 50WP (trifloxystrobin)</b>	Controls powdery mildew & scab on outdoor ornamental fruit trees. As a spray for rhizoctonia on new seedlings in the greenhouse.	454 grams CH60166
<b>Quintozene 75WP</b>	For eradication of certain soil born diseases especially rhizocontonia. Effective for 3 months.	2 Kg CH30225
<b>Rovral 50WP (iprodione)</b>	Wettable powder fungicide suitable for resistant strains of Botrytis & for damping off caused by rhizoctonia . An eradicant & a protectant with good residue activity.	1 Kg CH30260
<b>Ridomil Gold (metalaxyl)</b>	Minor use label expansion for greenhouse cucumber of pythium root rot Growers using this treatment are required to sign waivers of liability.	0.5L CH30245
<b>Truban 30WP-25EC</b>	Contact fungicide for the control of pythium & phytophthora. Damp off & stem rot in potted plants & soil mixes.	946 ml CH30290 907g CH30300
<b>Previcur n (propamocarb hydrochloride)</b>	A long lasting systemic & protectant against pythium in cucumber crops. Small seedlings should be washed off to prevent damage.	1L CH30122
<b>Sulphur 90%</b>	For powdery mildew & leaf spot, especially on Greenhouse tomatoes.	22.7 Kg FR36120
<b>Meltatox BASF</b>	For powdery mildew & leaf spot on greenhouse & field grown roses. In severe cases, apply on 3-day intervals.	1L CH30320
<b>Phyton-27 (copper comp)</b>	A liquid copper base bactericide/fungicide. Controls botrytis and powdery mildew on roses geraniums, poinsettia & begonia.	1L CH30215
<b>Nova 40WP (mycobutanil)</b>	A protective & curative systemic fungicide, powdery mildew on tomatoes & peppers. Powdery mildew & rust on poinsettia & other pot plants.	4 X 140 gram CH30325
<b>Senator 70WP (thiophanate-methyl)</b>	Controls powdery mildew, black spot, leaf spot & botrytis. Use on roses & ornamental pot crops.	2 Kg CH60182

Subdue Maxx (metalaxyl-m & isomer)	Controls pythium & phytophthora on greenhouse ornamentals & poinsettia.	1L CH60181
<b>Growth Regulators</b>		
A-Rest (ancymidol)	Light applications will produce more normal results. Heavier applications will produce more compact plants.	1L CH10112 4L CH10110
B-Nine (daminozide)	Gives stronger stems, greener leaves & more drought resistance. Foliar spray for chrysanthemums, azaleas, hydrangeas, poinsettia, & bedding plants.	500g CH10150 10 Kg CH10140
Bonzi (paclobutrazol)	Use on impatiens, coleus, celosia, geraniums, petunia & salvia. <i>Very effective at low dosages. Must be very accurately measured.</i>	1L CH10170
Cycocel (chlormequat chloride)	Gives a more sturdy and compact plant. Use after pinching plants, or when potting stock or cuttings with well- developed roots. Apply as a spray or drench for geraniums, azalea and poinsettias	1L CH10160
Ethrel (ethephon)	Used to ripen & give uniform fruit colour on tomatoes.	10L CH10180
<b>Fumigation</b>		
D.D.V.P. (dichloros)	Controls aphids, red spider mite, thrips, mealy bug & whitefly. Injurious to Shasta daisies & pink champagne chrysanthemums & some snapdragon.	12 cans/case CH35120
<b>Miscellaneous products</b>		
Yellow Sticky Strips	Attracts leafminer, whitefly, fungus gnats & thrips. 10 X 25 cm	CH15490
Blue Sticky Strips	Attracts thrips two to three times higher than yellow sticky strips.	10 X 25 cm CH15496
Stim Root	#1 for soft wood (CH45110); #2 for medium-hard wood (CH45120); #3 for hard wood (CH451130)	500 grams
Leaf Clean	Enhances the appearance of tropical broadleaf foliage. No waxes or solvents.	3.78L CH15355
Virucidal Extra (potassium monopersulphate)	A wide spectrum virucidal, bactericidal & fungicidal wash. Foot, tool & greenhouse wash.	3 Kg CH42150

### **SAFETY FIRST!!!**

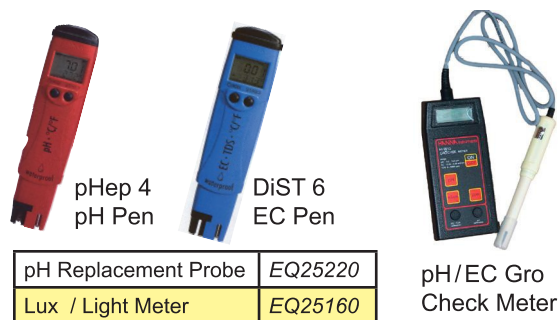
Always wear the appropriate protective clothing and gear as stated on the label!!

## **READ THE LABEL !!**

These Chemical Tables are **GENERAL GUIDELINES ONLY**. They are by no means complete and are **NOT** to be used as a substitute for instructions or information provided on the chemical label. For specific information, please contact the chemical manufacturer.

EC, pH & Light Meters	
EC Pen - DiST 6	EQ25193
EC Meter - 71 digital	EQ25110
EC Replacement probe	EQ25140
EC 1.413 Solution	EQ25151
EC 2.00 Solution	EQ25150
EC 12.88 SOLUTION	EQ25152

pH / EC Combo Meter w/ temp	EQ25190
pH Meter -- 57 Digital	EQ25180
pH Pen -- Micro pHep 4 w/ temp	EQ25192
pH 4 Buffer solution	EQ25210
pH 7 Buffer solution	EQ25205
pH 10 Buffer solution	EQ25200



pH Replacement Probe	EQ25220
Lux / Light Meter	EQ25160

pH/EC Gro Check Meter

## SAFETY FIRST !!

The Professional Gardener supports care and safety in the workplace. For the protection of the applicator and surrounding crops, precautions must be taken when applying any chemical or fertilizer. Always read the information and instruction provided on the container label. If a specific crop or concern is not addressed, contact the chemical manufacturer for more information.



(Right) Kasco Prof88 Helmet

(Left) Full Mask  
(Below) Half Mask

### Clothing

Gloves Solvex Size 9, 10, 12	CH50140
Gloves Vinyl Coated	CH50130
Jacket Yellow – Large	CH50115
Jacket Yellow – Med w/hood	CH50114
Pant Yellow – Medium	CH50117
Pant Yellow – Large	CH50116

### Tyvox Spray Suits

Spray Suits – Large	CH50162
Spray Suits - Medium	CH50160
Spray Suits - XLarge	CH50164
Spray Suits - XXLarge	CH50170

### Kasco Masks & Respirators

Kasco Prof88 Helmet	CH51200
Kasco Charger for Prof88	CH51221
Kasco Filter Prof88 (ZA1P3)	CH51220
Kasco Filters T80 (ZA2P3)	CH51210

### 3M Masks & Respirators

6900 Full Face Mask	CH51120
Respirator 3M #6300(L) complete	CH51100
Half Mask only #6300	CH51110
Prefilters #5N11 (for 6300) 10/pkg	CH51116
Retainers #501 (for 6300)	CH51114

### Ultra View Masks

Ultra View Mask Complete	CH51190
Ultra View Lens Only	CH51185
Straps for ultra view	CH51180

## WEIGHTS & MEASURES

Measuring Containers	250 ml	CH51300
	1 Litre	CH51305
	3 Litre	CH51315
	5 Litre	CH51320
Scale (Universal)	4 Kg	CH50125
	11 Kg	CH50127
	800 gram	CH50120





(Left) MLVH-10A Mini AutoFog™ – Perfect for smaller Greenhouses. (Above) Electric Heavy Duty Sprayer. Fully adjustable pressure up to 500 PSI, and adjustable spray pattern and output rate. Shown above right with optional cart and 12 gallon tank.

## DRAMM

(Right) Dyna-Fog Hurricane Electric Portable Aerosol Applicator. Dispenses both oil and water-based products. Three precision nozzles provide greater output capacity. Adjustable between 0-5 GPH, and can handle both large and small areas.



4" dia. Air Intake Port w / Washable Filter

Dramm Mini AutoFog MLVH-10A	EQ40135
Dramm Discharge Hose for CS5AG	EQ40125
Dramm Electric Sprayer H.D.	EQ40120
Dramm HERBI 1 360	EQ40132
Dramm HERBI 2 Dir'tl	EQ40133
Dramm ULVA Sprayer	EQ40130
Spray Shield 16"	EQ40179
DynaFog Anileator Fogger	EQ70167
DynaFog Hurricane	EQ70166
DynaFog Model 2610	EQ70165
JD9-C Spray Gun	EQ40195
Flooding Nozzle for JD9-C (4GPM) PF6014	EQ40193
Flooding Nozzle for JD9-C (5GPM) PF603-5	EQ40192
Root Feeder	EQ40190
Root Feeder Tip 2 Hole	EQ40198
Root Feeder Tip 4 Hole	EQ40206
Side Swipe THS	EQ40280
Sun AP-2 Hand Sprayer	EQ46100
Sun Backpack sprayer	EQ46000
Sun Drift Guard	EQ46070



(Back) Flooding Nozzles  
(Front) Nozzle Tips



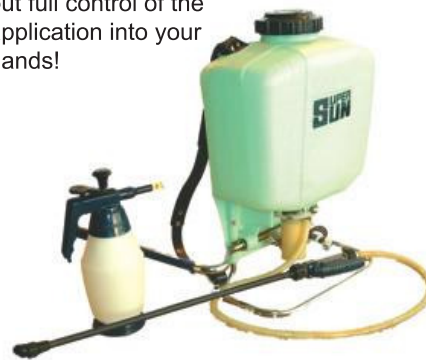
Root Feeder Attachments



JD9-C  
Spray Gun

Ruggedly built and precise, the JD9-C applies solutions in a fine spray to a precise stream. With a host of optional nozzles and feeding attachments, the JD9-C is a versatile and indispensable part of your spray equipment.

The Backpack Sprayer and Hand Sprayer Units are perfect for those small jobs, be it pesticide or growth regulator applications. The long hose and nozzle on the Backpack Sprayer make it easy to reach those hard spots. With adjustable nozzles, from stream to spray, these versatile units put full control of the application into your hands!



(Above Left) Sun AP-2 Hand Sprayer  
(Above Right) Sun Backpack Sprayer



Dramm  
HERBI 1  
360

Side Swipe THS

The **Dramm HERBI 1 360** provides a precise 4', 360° Controlled Droplet Application (CDA), which puts the pesticide where you want it with reduced risk of drift and damage to valuable crops. Battery controlled, it can treat several acres in an hour.

It's not a hockey stick . . . it's the **Side Swipe THS!** The handle/reservoir feeds the wiper on the blade of the stick. Swipe only the weeds . . . your valuable plants remain safe!!!