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Potato Product Guide



Your Guide to
Potato Crop Protection
and Nutrition

United Agri Products Canada Ltd.

Potato production is both challenging and rewarding. As a high value crop, potatoes require season-long agronomic management of fertility, insects, weeds, and diseases. In this complex world of potato production, UAP helps to meet the challenges with a wide range of proven crop protection and nutrient products.

UAP covers virtually every potato production challenge, carrying herbicides, fungicides, insecticides, adjuvants, growth regulators, and specialty nutrients.

For products that deliver high value to your farm's bottom line, call your nearest agricultural retailer and ask for one of UAP's proven potato products.

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Copper 53W Fungicide

Copper 53W fungicide is a wettable powder used to control late and early blight. It is an inorganic compound used as a preventative fungicide with no known resistance problems.

DISEASES CONTROLLED:

Early and late blights. Apply to cover foliage thoroughly beginning when crop is 12 – 18 cm high and re-apply at 7 – 10 day intervals.

ACTIVE INGREDIENT:

Copper from tri-basic copper sulphate 53%. Group M fungicide.

APPLICATION RATES:

5.5 kg/ha.

Copper Spray Fungicide

Copper Spray fungicide is a wettable powder used to control late and early blight.

DISEASES CONTROLLED:

Early and late blights. Apply to cover foliage thoroughly beginning when crop is 10 – 20 cm high and re-apply at 7 – 10 day intervals.

ACTIVE INGREDIENT:

Copper as elemental, present as copper oxychloride 50%. Group M fungicide.

APPLICATION RATES:

4.0 kg/1000 L water/ha.

Coppercide Fungicide

Coppercide is a broad-spectrum protective fungicide used to control late and early blight. Coppercide may be applied at vinekill with a desiccant or alone after vinekill prior to harvest. This late application may reduce tuber infestation by late blight during harvest.

DISEASES CONTROLLED:

Early and late blights. Apply to cover foliage thoroughly beginning when crop is 15 cm high until harvest at 7 – 10 day intervals tank mixed with a mancozeb product.

ACTIVE INGREDIENT:

Copper hydroxide 50%. Group M fungicide.

APPLICATION RATES:

Coppercide at 1.1 – 2.25 kg/ha combined with a mancozeb product at 1.75 – 2.25 kg/ha. Coppercide can be used alone late in the season for prevention of tuber infection at a rate of 3.4 kg/ha.

Echo® 90DF and Echo® 720 Fungicide

Echo contains the highly effective contact fungicide chlorothalonil, offering broad-spectrum disease protection. An advanced formulation with a higher concentration of chlorothalonil gives 44% more active ingredient per litre than previously available in Canada. Echo with DuraShield for disease control.

DISEASES CONTROLLED:

Late Blight (*Phytophthora infestans*), early blight (*Alternaria*), and Botrytis vine rot.

ACTIVE INGREDIENT:

Chlorothalonil 720 g/L or chlorothalonil 90%.

APPLICATION RATES:

Echo 720: 0.8 – 1.7 L/ha (1.1 L for early blight and Botrytis vine rot).

Echo 90DF: Late blight 0.7 – 1.3 kg/ha, early blight and Botrytis vine rot 0.9 – 1.3 kg/ha. Apply when crop is 15 – 20 cm high or when disease threatens at 7 – 10 day intervals. If severe conditions exist drop spray interval to 7 days.

Gavel® 75DF Fungicide

Gavel contains two highly effective ingredients, zoxamide and mancozeb, with multi-site activity that helps prevent fungicide resistance. Zoxamide and mancozeb work synergistically to control late blight and mancozeb is highly effective at controlling early blight.

DISEASES CONTROLLED:

Late blight and early blight.

ACTIVE INGREDIENT:

Mancozeb 66.7%, zoxamide 8.3%, and 25% other ingredients.

APPLICATION RATES:

1.7 – 2.25 kg/ha at a 7 day interval, begin at first sign of disease or when first blight reported in the area. Use higher rate when disease pressure is high or when environmental conditions favour disease development. May make up to 6 applications per season.



Penncozeb® 75DF Fungicide

Penncozeb 75DF fungicide is an important management tool in potatoes and can be applied with ground or aerial application equipment. It controls many key leaf diseases including early and late blight, and can be used in sequential applications to improve disease control.

DISEASES CONTROLLED:

Early and late blights. Apply when plants are 10 – 15 cm high and throughout the season at 7 – 10 day intervals. Shorten interval in periods of wet weather favouring disease conditions.

ACTIVE INGREDIENT:

Mancozeb 75%. Group M fungicide.

APPLICATION RATES:

1.1 – 2.25 kg/ha. Increase rate as crop size increases. Use high rate at row closure.

PSPT 16 Fungicide

PSPT 16 delivers superior yet economical control of Fusarium seed piece decay in a convenient, easy-to-use formulation. PSPT 16 uses a talc/alderbark formulated blend to control moisture and provide thorough coverage of seed potatoes to prevent seed piece decay and provide improved seedling emergence.

DISEASES CONTROLLED:

Fusarium seed piece decay by thoroughly covering whole or cut seed pieces prior to seeding.

ACTIVE INGREDIENT:

Mancozeb 16%. Group M fungicide.

APPLICATION RATES:

500 g/100 kg potato seed.



Ranman™ 400SC Fungicide

Ranman fungicide protects potato yields with a unique mode of action that provides highly effective control and excellent prevention of late blight in potatoes. Unlike most fungicides that only control some disease stages, Ranman is active in all stages of the disease life cycle, has good residual activity, and is a great resistance management tool.



DISEASES CONTROLLED:

For late blight in potatoes, apply on a 7 day schedule alternating with fungicides with different modes of action. Apply up to 6 sprays per season. For late blight tuber rot apply 2 – 3 applications prior to desiccation at the higher label rate.

ACTIVE INGREDIENT:

Cyazofamid 34.5%. Group 21 fungicide.

APPLICATION RATES:

0.1 – 0.2 L/ha.

Serenade® Fungicide

Serenade is a broad-spectrum bio-fungicide derived from a natural soil bacterium. *Bacillus subtilis* QST 713 strain produces a unique and patented combination of three different groups of biochemicals that produce 30 different lipopeptides that work together to destroy disease pathogens.

DISEASES CONTROLLED:

White mould (*Sclerotinia sclerotiorum*) and early blight (*Alternaria solani*). Also registered for post harvest application for control of silver scurf (*Helminthosporium solani*).

ACTIVE INGREDIENT:

QST 713 strain of dried *Bacillus subtilis* containing a minimum of 1×10^9 CFU/g.

APPLICATION RATES:

8.0 – 15.0 L/ha at 7 – 10 day intervals starting soon after emergence and when conditions are conducive to disease development. For post harvest spray: prepare the equivalent of 5 – 10 litres of Serenade ASO in 100 litres of water. Spray 2 litres of the Serenade ASO/water suspension per tonne of potatoes.

Vapam HL Soil Fumigant

Vapam is a water soluble liquid; when applied properly to the soil the liquid converts into a gaseous fumigant. After a sufficient interval of time, the fumigant dissipates leaving the soil ready to plant.

DISEASES CONTROLLED:

Rhizoctonia	Pythium
Phytophthora	Verticillium
Sclerotinia	

Also will control germinating weeds in the fumigation zone including:

Annual grasses	Bermuda grass
Chickweed	Dandelion
Ragweed	Henbit
Lamb's-quarters	Pigweed
Purslane	Johnsongrass
Wild morning glory	Quack grass (suppression)

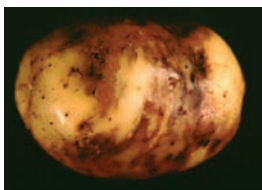
Vapam controls nematodes and symphylans.

ACTIVE INGREDIENT:

Metam Sodium 42%. Group M fungicide/bactericide.

APPLICATION RATES:

Broadcast soil injection: 279 – 696 L/ha (may be reduced for band application). Check or flood irrigation 372 – 744 L/ha.



Arrow® Herbicide

Arrow herbicide is a selective, post-emergent herbicide for the control of a broad range of grasses and volunteer cereals in potatoes.

WEEDS CONTROLLED:

Foxtail (green and yellow)	Fall panicum
Wild oats	Crabgrass (smooth and large)
Volunteer cereals	Volunteer corn
Persian darnel	Volunteer canary grass
Barnyard grass	Quackgrass
Witchgrass	

ACTIVE INGREDIENT:

Clethodim 240 g/L. Group 1 herbicide.

APPLICATION RATES:

0.38 L/ha. Apply Arrow with the adjuvant X-Act™ when weeds are at the 2 – 6 leaf stage and actively growing. Effects will be seen in 7 – 21 days depending on weather conditions.

Eptam® 8E Herbicide

Eptam 8E herbicide provides proven season long control of many difficult to control annual and perennial weeds including sedges, hairy nightshade, and wild oats. When Eptam is applied and incorporated according to the label directions, weed control begins immediately. Performance is not dependent on post-application rainfall. Other key Eptam features include excellent crop safety and crop rotation flexibility.

WEEDS CONTROLLED:

Annual bluegrass and ryegrass	Common chickweed
Barnyard grass	Corn spurry
Crabgrass	Hairy nightshade
Fall panicum	Henbit (deadnettle)
Foxtails (green and yellow)	Lamb's-quarters
Goosegrass	Pigweed (prostrate, redroot, and tumble)
Volunteer grains	Purslane
Nettleleaf goosefoot	Wild oats
Witchgrass	

ACTIVE INGREDIENT:

EPTC 800 g/L. Group 8 herbicide.

APPLICATION RATES:

Fall application (Prairies only): 5.5 – 8.5 L/ha.

Spring pre-plant: 4.25 – 8.5 L/ha.

Post-emergence: 4.25 – 5.5 L/ha.



Linuron 400L Herbicide

Linuron 400L is a liquid suspension herbicide that is applied as a pre-emergent spray for selective weed control of annual weeds in potatoes. Linuron is an economical, broad-spectrum herbicide with tank mix flexibility. As a group 7 herbicide, Linuron is a key herbicide resistance management tool.

WEEDS CONTROLLED:

Most annual grasses	Ragweed
Common chickweed	Redroot pigweed
Corn spurry	Smartweed
Goosefoot	Shepherd's purse
Groundsel	Wild buckwheat
Knotweed	Wild radish
Kochia	Wormseed mustard
Lamb's-quarters	Dandelion (seedling)
Prostrate knotweed	Plantain (seedling)
Pigweed	Sow thistle (seedling)
Purslane	

ACTIVE INGREDIENT:

Linuron 400 g/L. Group 7 herbicide.

APPLICATION RATES:

Apply alone at 4.25 – 5.5 L/ha on muck or clay soils with medium organic matter or at 2.75 – 4.25 L/ha on loam or clay soil with a low organic matter. May be tank mixed with Dual® II Magnum (1.25 – 1.75 L/ha) using Linuron at 2.2 – 2.8 L/ha. Do not use tank mix on muck, peat, or high organic soils or on the variety Superior. Apply before the crop emerges or when tops are completely covered by hilling. Grass weeds should be less than 5 cm tall and broadleaf weeds less than 15 cm tall.

Sharpshooter® Herbicide

Sharpshooter is a cost-effective glyphosate herbicide in an easy-to-use, water-soluble formulation. Sharpshooter delivers the proven performance of glyphosate in a wide range of crop and non-crop uses.

WEEDS CONTROLLED:

Most actively growing annual and perennial weeds, see label for listing.

ACTIVE INGREDIENT:

Glyphosate 360 g/L. Group 9 herbicide.

APPLICATION RATES:

In potato production, Sharpshooter can be used as a pre-plant burn down for the control of emerged weeds listed on the label. Ensure weeds are at the recommended growth stage at application time. Apply before seeding the crop. Rates vary with weeds present and weed populations. Refer to label for specific application instructions.

Alias® SC Insecticide

Alias is an alternative imidacloprid insecticide providing greater freedom of choice. Alias offers potato growers control over a wide range of insects. Alias can be used as a narrow band in-furrow treatment (Colorado potato beetle), as a seed treatment, or as a foliar application.

INSECTS CONTROLLED:

Colorado potato beetle
Buckthorn aphid
Potato aphid
Potato flea beetle

Green peach aphid
Foxglove aphid
Potato leafhopper

ACTIVE INGREDIENT:

Imidacloprid 240 g/L. Group 4 insecticide.

APPLICATION RATES:

Soil: 850 mL – 1.3 L/ha.

Foliar: 200 mL/ha.

Seed piece: 26 – 39 mL/100 kg.



Beleaf™ 50 SG Insecticide

Beleaf is a new IPM tool for resistance management. Beleaf's unique mode of action provides long lasting control of aphids – up to three weeks – while preserving beneficials. It has an anti-feeding effect causing aphid death and a short pre-harvest interval of 7 days in potatoes.

INSECTS CONTROLLED:

Green peach aphid
Potato aphid

ACTIVE INGREDIENT:

Flonicamid 50%

APPLICATION RATES:

0.12 – 0.16 kg/ha. Use higher rates for greater pest populations and or dense foliage. Use a minimum of 94 L water/ha. Allow 7 days between applications with a maximum of 3 sprays per season.

Bioprotec CAF Insecticide

Bioprotec CAF is a water-based biological insecticide for the control of certain lepidopteran larvae when they are newly hatched and are actively feeding. Bioprotec CAF is a stomach intoxicant only and deposits of Bioprotec CAF must be ingested by the susceptible larvae. Larvae cease feeding within a few hours after ingestion of a sufficient dose and die within 2 – 5 days

INSECTS CONTROLLED:

Cabbage looper
Imported cabbage worm

Diamondback moth

ACTIVE INGREDIENT:

Bacillus thuringiensis subspecies *kurstaki*, strain HD-1 at a potency of 11,400 IU/mg, equivalent to 12.7 BIU/L. Group 11 insecticide.

APPLICATION RATES:

1.4 – 2.8 L/ha (18 – 36 BIU/ha).



Diazinon 50W and Diazinon 500E Insecticide

Diazinon 50W and 500E are broad-spectrum insecticides for use on a large crop base. As an organophosphate insecticide, diazinon controls insects through contact and ingestion providing a good level of control.

INSECTS CONTROLLED:

Colorado potato beetle
Flea beetle
Dipterous leafminer

Aphid
Leafhopper

ACTIVE INGREDIENT:

Diazinon 50% and Diazinon 500 g/L. Group 1B insecticide.

APPLICATION RATES:

Diazinon 50W: 1.1 kg/ha.
Diazinon 500E: 1.1 L/ha.

Lagon® 480E Insecticide

Lagon has become one of Canada's leading insecticides due to its systemic activity, reliable performance under a wide range of environmental conditions, the wide variety of crops it can be used in, and the broad spectrum of insects it controls. When potato growers find it tough to control insects in their crop they can count on Lagon to solve the problem.

INSECTS CONTROLLED:

Aphid	Leafhopper
Tarnished plant bug	

ACTIVE INGREDIENT:

Dimethoate 480 g/L. Group 1B insecticide.

APPLICATION RATES:

Apply 550 ml – 1.1 L/ha when insects are present or at first sign of visible damage. Use a maximum of 3 applications per season at 7 – 10 day intervals.

Malathion 85E and Malathion 25W Insecticide

Malathion is an economical and effective insecticide for control of a wide range of insect pests in a wide range of crops. Both Malathion 85E and 25W are registered for use in potatoes. Malathion is a contact organophosphate insecticide.

INSECTS CONTROLLED:

Aphid	Leafhopper
Spider mite	Colorado potato beetle

ACTIVE INGREDIENT:

Malathion 85% or Malathion 25%. Group 1B insecticide.

APPLICATION RATES:

Malathion 85E: 735 mL – 1.1 L/ha.

Malathion 25W: 2.75 – 4.25 kg/ha.

To ensure good coverage, apply when temperatures are over 20 °C for best results.



Orthene® 75SP Insecticide

Orthene 75SP has a powerful one-two punch by controlling insects with both contact and systemic action. Orthene controls a wide variety of damaging insects, but is best known for its excellent activity on aphids. It provides effective control of foliar-feeding insects and is rapidly absorbed into the plant tissue controlling insects as they feed over a two to three week period after application.

INSECTS CONTROLLED:

Green peach aphid
Potato flea beetle
Tarnished plant bug

Potato aphid
Potato leafhopper

ACTIVE INGREDIENT:

Acephate 75%. Group 1B insecticide.

APPLICATION RATES:

563 – 825 g/ha. Apply at first sign of insects by ground equipment only. Use the high rate only when heavy pest infestations occur. Application may be made at 7 – 10 day intervals up to 21 days before harvest.



Pounce® Insecticide

Pounce is a broad-spectrum synthetic pyrethroid insecticide with low acute mammalian toxicity. It controls insects through a combination of stomach and contact activity, which improves effectiveness.

INSECTS CONTROLLED:

Cutworms (army, black, dark sided, pale western, red backed, white, and variegated)
Colorado potato beetle
Leafhopper
European corn borer
Potato flea beetle
Tarnished plant bug

ACTIVE INGREDIENT:

Permethrin 384 g/L. Group 3 insecticide.

APPLICATION RATES:

180 – 390 mL/ha may be pre-plant applied, post-plant soil applied, or foliar applied at first sign of insect or insect damage occurs.

Pyrifos® 15G Insecticide

Pyrifos 15G is a granular insecticide used as an in-furrow treatment at planting time.

INSECTS CONTROLLED:

Wireworm

ACTIVE INGREDIENT:

Chlorpyrifos 15%. Group 1B insecticide.

APPLICATION RATES:

0.1 kg/100 m of row (equivalent to 11.2 kg/ha or 1.7 kg ai/ha based on 90 cm row spacing).

Pyrinex™ 480EC Insecticide

Pyrinex 480EC is a broad-spectrum organophosphate insecticide that provides reliable control of a wide range of insects in different crops. Pyrinex performs well under a wide range of environmental conditions.

INSECTS CONTROLLED:

Cutworms (black, dark sided, and red backed)	Potato flea beetle
Colorado potato beetle	Tarnished plant bug

ACTIVE INGREDIENT:

Chlorpyrifos 480 g/L. Group 1B insecticide.

APPLICATION RATES:

Cutworms can be controlled using pre-plant (2.4 L/ha 3 – 7 days before planting) or broadcast sprays (1.2 – 2.4 L/ha at the 2 – 5 leaf stage of the potato crop, once per season). Other potato insects listed on the label can be sprayed as a foliar application using 1.0 L/ha when insects are in the young instars.





Rimon® 10EC Insecticide

Rimon 10EC insecticide provides potato growers with a reliable option for controlling Colorado potato beetle and European corn borer. Rimon prevents chitin deposition leading to insect death, unlike most conventional insecticides that attack the nervous system of the insect. It is an excellent resistance management rotational insecticide and has low mammalian toxicity.

INSECTS CONTROLLED:

Colorado potato beetle

European corn borer

ACTIVE INGREDIENT:

Novaluron 10%. Group 15 insecticide.

APPLICATION RATES:

Apply 410 – 820 mL/ha at egg hatch to second instar for Colorado potato beetle and at peak egg hatch for European corn borer. Reapplications may be made at 10 – 14 day intervals.

Thionex® EC/Thionex® 50W Insecticide

Thionex insecticide is available in an emulsifiable concentrate or a wettable formulation. Thionex can be combined with most commonly used fungicides, adjuvants, and other insecticides.

INSECTS CONTROLLED:

Colorado potato beetle

Aphid

Leafhopper

Potato flea beetle

Tuber flea beetle

Tarnished plant bug

ACTIVE INGREDIENT:

Endosulfan 400 g/L or 50%. Group 2A Insecticide.

APPLICATION RATES:

Thionex EC at 1.5 L/ha. Thionex 50W at 1.1 – 1.5 kg/ha. Apply at first sign of insects up to the day before harvest. Tarnish plant bug Thionex EC at 2.0 L/ha or Thionex 50W at 1.5 kg/ha at first sign of insects.

Royal MH-30 XTRA® Growth Regulator

Royal MH-30 XTRA growth regulator prevents cell division while cell expansion during tuber bulking continues to function normally. This allows continued cell expansion of the selected tubers, resulting in more uniform sizing of the tubers in the hill. Since knobs and crooks are caused by cell division, their number is reduced and potato quality is improved. Royal MH-30 XTRA is readily absorbed into the potato foliage and is rapidly absorbed and moved into the tubers. Royal MH-30 XTRA acts to break down and inhibit growth stimulators that cause sprouting and therefore should not be used on potatoes that will be used for seed.

CONDITIONS CONTROLLED:

Sprout initiation	Knobs and crooks
Uneven tuber sizing	Tuber shrink
Volunteer potato plants in field the next season	

ACTIVE INGREDIENT:

Maleic hydrazide 22.7%.

APPLICATION RATES:

12.6 L/ha applied by ground in at least 300 L water/ha, or aerial application in at least 100 L water/ha. Apply when smallest tubers that will reach harvestable size are at least 5 cm in diameter, between 2 – 3 weeks after full bloom and 2 weeks before expected top kill date or first frost. Crops should be free of stresses such as drought, disease, and insects. Timing will be a management decision based on the crop size and intended use of the crop.



LI 700® Penetrating Surfactant

LI 700 is a soy-oil derived, non-ionic penetrating surfactant that reduces the potential for off-target spray drift, reduces spray water pH, improves product deposition on the plant leaf, and increases product penetration into the plant. Unique formulation technology and quality ingredients separate LI 700 from the imitators.

APPLICATION RATES:

- 2.5 – 5 L/1000 L spray mixture.
- pH adjuster/acidifier pH 8 or higher:
625 mL – 1.25 L/1000 L water mixture.
- pH 6.5 – pH 8.0: 300 – 635 mL/1000 L water mixture.
- Drift reduction agent: 5 L/1000 L.

Choice® Weather Master Water Conditioner

Choice Weather Master is a water conditioning agent for use with agricultural chemicals. Designed for hard water conditions, this liquid formulation locks up hard water cations allowing maximum herbicide performance. Choice Weather Master is compatible with all formulations of glyphosate herbicides, including the K-salts.

APPLICATION RATES:

2.5 – 5.0 L/1000 L water.

Fighter-F® 12.5

Antifoaming/Defoaming Agent

Fighter-F 12.5 is a siloxane based product that can be used to knock down foam (defoam) and is also effective in preventing foam from forming (antifoam). Fighter-F 12.5 is a liquid formulation that is compatible with potassium salt formulations of glyphosate as well as most other pesticides and fertilizers.

CONDITIONS CONTROLLED:

Spray tank foaming during loading and spraying.

APPLICATION RATES:

Apply 75 – 450 mL per 1000 L prior to mixing pesticides or fertilizers for anti foaming. For defoaming apply as needed to break down foam produced by agitation.

E-Z Mix Compatibility Agent

E-Z Mix is a highly concentrated compatibility agent for direct addition to liquid fertilizers when a stable mixture of pesticides and liquid fertilizer is desired.

CONDITIONS CONTROLLED:

Prevents gelling in the spray tank and produces a homogeneous mixture that allows more accurate application rates across the entire field.

APPLICATION RATES:

Add 1.3 – 2.5 L/1000 L of solution while agitating the mixture.

All Clear® Spray Tank Decontaminator

All Clear is a highly effective all-purpose ammonia-free liquid tank cleaner that is specifically formulated to remove pesticide deposits and other debris, including sticky and oily substances from tanks, hoses, booms, and nozzles.

CONDITIONS CONTROLLED:

Contamination from product residues on crops that may result in plant injury.

APPLICATION RATES:

2.5 – 5.0 L/1000 L water.

General Storage Disinfectant

General Storage Disinfectant is a liquid disinfectant for controlling rot or decay organisms in potato storage, vegetable storage, and other storage areas. It will control bacterial ring rot (*Corynebacterium sepedonicum*) in potato storage areas.

CONDITIONS CONTROLLED:

Bacterial ring rot

GUARANTEED ANALYSIS:

n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl chloride 10%.

APPLICATION RATES:

After storage is empty and cleaned well, use a solution of 60 mL/10 L water (600 mL/100 L) of water, saturate surfaces and material thoroughly and keep wet for 20 minutes. A similar rate may be used to clean equipment, boxes, crates and hampers, and storage walls and ceilings (use high pressure jet to penetrate cracks).



ACA® Plus 7-0-0 with 8.5% Zinc

ACA Plus is a plant nutrient blend that stimulates vigorous root growth when applied at planting time in the seed furrow. This encourages potatoes to have a greater root mass, which in turn promotes better early vigour and healthier, more robust plants and better quality potatoes at harvest. ACA Plus is effective in seasons when environmental stresses are common.

CONDITIONS CONTROLLED:

Poor plant vigour and nutrient deficiencies

GUARANTEED ANALYSIS:

Nitrogen 7% (ammoniacal nitrogen)

Zinc (actual) 8.5%

APPLICATION RATES:

Broadcast soil applied 3.5 – 6.0 L/ha, side dressed or band applied to soil 1.2 – 3.1 L/ha. Foliar applied 1.2 – 2.4 L/ha.

Drip irrigation 1.2 – 3.6 L/ha

Awaken™ 16-0-2 with Micronutrients

Awaken is a plant nutrient blend with micronutrients. It produces longer, more fibrous root systems, which promote increased nutrient uptake by the potato crop. Awaken promotes stronger stalks and stems and more uniform tuber development. Awaken can be applied using flexible application methods and optimizes crop output during stress conditions.

CONDITIONS CONTROLLED:

Poor plant vigour

Nutrient deficiencies

Stress related conditions

GUARANTEED ANALYSIS:

Nitrogen (N) 16%

Soluble Potash (P_2O_5) 2.0%

Boron (B) 0.02%

Copper (Cu) 0.15%

Iron (Fe) 0.15%

Manganese (Mn) 0.15%

Molybdenum (Mo) 0.0006%

Zinc (Zn) 2.7%

Chlorine (Cl) (maximum) 0.07%

APPLICATION RATES:

Broadcast, band, or side dressed soil applied: 5.0 – 10.0 L/ha.

Foliar applied: 5.0 L/ha.

Overhead, pivot, sprinkler or solid set irrigation: 4.7 – 5.5 L/ha.



Black Label™ Zn 6-20-0 + 0.77% Zn

Black Label Zn is a blend of three important nutrients using a patented manufacturing process. Black Label Zn uses technology designed to protect applied phosphorus from reacting and tying-up with calcium, iron, and aluminum in all soil types.

CONDITIONS CONTROLLED:

Poor plant vigour and nutrient deficiencies.

GUARANTEED ANALYSIS:

Nitrogen (N) 6%

Phosphate (P_2O_5) 20%

Zinc (Zn) 0.77%

APPLICATION RATES:

Injected or dribble below seed placement line: 190 – 285 L/ha.

Broadcast: 10 – 20 L/ha.



Borosol™ 10

Borosol 10 is a patented soluble polyborate liquid that provides a readily available source of boron to crops. It may be mixed and applied with water or liquid fertilizer solutions or used in combination with most pesticide sprays. May be applied as a foliar or soil applied spray.

CONDITIONS CONTROLLED:

Poor plant health and boron deficiencies.

GUARANTEED ANALYSIS:

Boron 10%

APPLICATION RATES:

Foliar up to 4 applications a year at 2.3 – 4.6 L/ha.

Soil applied at 9.4 – 18.9 L/ha.

Jolt® 6-25-38 Water Soluble Fertilizer with Micronutrients

Jolt is a unique formulation containing NPK and micronutrients. Jolt is high in phosphorus and potassium promoting plant cell strength and protein and carbohydrate formation. Potassium is essential for the translocation of sugars and the formation of starches in the plant.

CONDITIONS CONTROLLED:

Poor plant vigour
Nutrient deficiencies
Stress related conditions

GUARANTEED ANALYSIS:

Nitrogen (N) 6% (6% nitrate nitrogen)
Manganese (Mn) 0.05%
Available Phosphoric Acid (P_2O_5) 25%
Molybdenum (Mo) 0.0005%
Soluble Potash (K_2O) 38%
Zinc (Zn) 0.15%
Boron (B) 0.02%
Copper (Cu) 0.05%
Chlorine (Cl) less than 1%
EDTA 1.8%
Iron (Fe) 0.15%

APPLICATION RATES:

2.4 – 4.8 kg/1000 L of spray solution or use 5.6 – 11.2 kg/ha by ground or aerial application equipment.



N-Pact™ 26-0-0 with 33% SRN

N-Pact's slow release nitrogen is a patented urea-triazone nitrogen blend that provides a stable source of post-emergent nitrogen for increased uptake and translocation, reduced volatility, and outstanding crop safety.

CONDITIONS CONTROLLED:

Poor plant vigour and nitrogen deficiencies.

GUARANTEED ANALYSIS:

Nitrogen total 26%

(17.4% Urea nitrogen and 8.6% triazone nitrogen)

APPLICATION RATES:

8.5 – 17.0 L/ha at 3 week intervals.

Re-Nforce™ K 5-0-20 + 13 S

A unique blend of urea-triazone and potassium thiosulphate, this chlorine free clear solution may be used in conjunction with other fertilizer solutions in soil applied and post-emergent sprays.

CONDITIONS CONTROLLED:

Improves poor plant vigour. Triazone aids potassium and sulphur absorption.

GUARANTEED ANALYSIS:

Nitrogen (N) 5% (33% slow release)

Potassium (K) 20%

Sulphur (S) 13%

APPLICATION RATES:

8.5 – 17.0 L/ha. Apply during periods of rapid growth.



Your Alternate Source

Look to UAP to make your potato crop input selections easier. UAP brings potato growers many herbicides, insecticides, fungicides, adjuvants, and plant nutrients. With UAP you can make decisions based on sound agronomics.



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Always read and follow label directions. All products mentioned are registered by their respective companies. For full label and other product information visit www.uap.ca.

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