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:**
3.8 kg/ha. 2-day PHI.

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. 2-day PHI.

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. 1-day PHI.
**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). 1-day PHI.
- **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. 1-day PHI.

**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 early and late blight.

**DISEASES CONTROLLED:**
Early and late blights.

**ACTIVE INGREDIENT:**
Mancozeb 66.7%, zoxamide 8.3%, and 25% other ingredients.

**APPLICATION RATES:**
1.7 – 2.25 kg/ha at 7-day intervals, beginning 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. 3-day PHI.
Penncozeb® 75DF Raincoat Fungicide

Penncozeb 75DF Raincoat 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. 1-day PHI.

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.
Rampart® – Potassium Phosphite Fungicide

Rampart is a systemic fungicide used to control late blight and pink rot on stored potatoes. Rampart’s unique formulation allows it to be easily absorbed, delivering better uptake and enhanced fungicidal activity over competitive brands using alternate formulations. Its lower pH increases the mono-potassium to di-potassium salt ratio. The mono-form is more readily absorbed and provides greater fungicidal activity. Sodium found in other formulations actually can compete with potassium, reducing plant uptake. Get the right recipe with Rampart.

DISEASES CONTROLLED:
Late blight and pink rot in stored potatoes, suppression of downy mildew on brassica leafy vegetables and grapes.

ACTIVE INGREDIENT:
Mono- and di-potassium salts of phosphorus acid.

APPLICATION RATE:
190 mL in 1 L water. Apply 2 litres as a spray or rinse to 1000 kg harvested potato tubers prior to storage.
In storage – 190 mL in 1 litre water. Inject 2 litres solution per 100 kg potatoes into water used for post-harvest storage.

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
Phytophthora
Sclerotinia

Also will control germinating weeds in the fumigation zone including
Annual grasses
Chickweed
Ragweed
Lamb’s-quarters
Purslane
Wild morning glory
Bermuda grass
Dandelion
Henbit
Pigweed
Johnsongrass
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 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)
- Wild oats
- Volunteer cereals
- Persian darnel
- Barnyard grass
- Witchgrass
- Fall panicum
- Crabgrass (smooth and large)
- Volunteer corn
- Volunteer canary grass
- Quackgrass

**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. 60-day PHI.

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

**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. 45-day PHI.
Alias<sup>®</sup> 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. 7-day PHI.

Beleaf™ 50 SG Insecticide

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. Beleaf is an excellent IPM tool for resistance management.

**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 or dense foliage. Use a minimum of 94 L water/ha. Allow 7 days between applications with a maximum of 3 sprays per season. 7-day PHI.
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). 1-day PHI.

Capture® 240 EC Insecticide

Capture 240EC insecticide offers a unique mode of action for the control of wireworm damage in potatoes grown for seed, table stock and processing. Capture creates a protective zone around the mother and daughter tubers to repel wireworms. Application by in-furrow or T-band spray.

INSECTS CONTROLLED:
- Wireworms

ACTIVE INGREDIENT:
Bifenthrin and its trans isomers 240 g/L.

APPLICATION RATE:
925 – 1404 mL/ha at planting. Apply once per year in-furrow or as a T-band spray. Use higher rate for higher populations. Apply in a minimum of 10 gal water / acre of spray. 21-day PHI.
**Lagon® 480E Insecticide**

Lagon has become one of Canada’s leading insecticides due to its systemic activity, its 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. 7-day PHI.

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**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. 3-day PHI.
**Malathion 25W:** 2.75 – 4.25 kg/ha. 3-day PHI.
To ensure good coverage, apply when temperatures are over 20°C for best results.
Orthene® 75SP Insecticide

Orthene 75SP controls 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 aphid
- Potato flea beetle
- Potato leafhopper
- Tarnished plant bug

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. 21-day PHI.

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
- Potato flea beetle
- Leafhopper
- Tarnished plant bug
- European corn borer

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. 1-day PHI.
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). 70-day PHI.

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. 7-day PHI.
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. 14-day PHI.

Silencer® Insecticide

Silencer is a group 3 insecticide in the pyrethroid family and provides exceptional control at low rates, and residual and fast-acting control. Silencer can be used on a broad range of crops including potato.

INSECTS CONTROLLED:
Potato flea beetle  Potato leafhopper
Tarnished plant bug  Tuber flea beetle
Colorado Potato Beetle  European corn borer
(susceptibility to pyrethroid insecticides should be confirmed using an appropriate assay)

ACTIVE INGREDIENT:
Lambda-cyhalothrin 120 g/L.

APPLICATION RATE:
Apply at 83 mL/ha; may be applied by ground or air, when insects or damage appears. Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. Use 125 mL/ha rate when Colorado potato beetle larvae are beyond the second instar stage of development or when populations are high. Spray at egg hatch for European corn borer. 7-day PHI.
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
- Uneven tuber sizing
- Volunteer potato plants in field the next season
- Knobs and crooks
- Tuber shrink

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 no later than 10 days before top kill or first frost. Crops should be free of stresses such as drought, disease, and insects. Timing will be a management decision based on 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 antifoaming. 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 (N) 7% (ammoniacal nitrogen)
Zinc (Zn) (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
Stress-related conditions
Nutrient deficiencies

GUARANTEED ANALYSIS:
Nitrogen (N) 16%
Soluble potash (P₂O₅) 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 of solid set irrigation: 4.7 – 5.5 L/ha.
Black Label® Zn 6-20-0 + 0.77%

Black Label Zn uses a patented manufacturing process. This unique formulation improves crop performance by increasing nutrient uptake and use efficiency (conversion of nutrients to yield), and improving soil health. Our exclusive formulation protects applied phosphorus from reacting and tying up with calcium, iron and aluminum in all soil types. Black Label Zn offers flexibility, as it can be tank mixed with most fungicides.

CONDITIONS CONTROLLED:
Poor plant vigour, phosphorus and nitrogen nutrient deficiencies, and soil amendments

GUARANTEED ANALYSIS:
Nitrogen (N) 6%
Phosphate (\(P_2O_5\)) 20%
Zinc (Zn) 0.77%

APPLICATION RATE:
Injection or dribble 30 – 50 L/ha above seed placement line; may be applied directly on seed piece. 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 (B) 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.
Maximum N-Pact® (24-0-0)

Maximum N-Pact (24-0-0, 33% SRN) is an enhanced triazone nitrogen that provides a stable source of nitrogen for increased uptake, translocation and assimilation of nitrogen, and reduced volatility, plus excellent crop safety. This excellent course of nitrogen is 31% more efficient in uptake than other nitrogen sources and blends with a wide range of pesticides and fertilizers. Containing 33% Slow Release Nitrogen that feeds the plant over a period of time.

CONDITIONS CONTROLLED:
Poor plant vigour and nitrogen deficiencies.

GUARANTEED ANALYSIS:
Nitrogen 24% with 8% triazone SRN and 1+% liquid urea nitrogen.

APPLICATION RATE:
Broadcast at 2 – 8 L/acre in a minimum of 8 gallons of water.

<table>
<thead>
<tr>
<th>Source</th>
<th>%**</th>
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<tbody>
<tr>
<td>Triazone</td>
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<tr>
<td>Nitrate</td>
<td>18.1</td>
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<tr>
<td>Urea</td>
<td>24.7</td>
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<tr>
<td>Ammonium</td>
<td>28.5</td>
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**Translocated and remobilized from treated leaf to non-treated leaf tissue, petioles and stems.

Re-Nforce™ K 5-0-20 + 13 S

A unique blend of urea–triazone nitrogen 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.

Sure-MAG™ 6%

Sure-MAG, with 6% magnesium acetate, is a unique source of liquid magnesium that delivers significant benefits over other foliar and soil applied magnesium sources. Sure-MAG has been designed to deliver maximum magnesium uptake with minimal potential for plant phototoxicity and translocates within the plant.

CONDITIONS CONTROLLED:
Poor plant development due to magnesium deficiencies.

GUARANTEED ANALYSIS:
6% magnesium acetate.

APPLICATION RATE:
Apply 1.4 to 14 L of Sure-MAG per hectare (1.6 – 5.5 L/ac) in 100 – 150 L/ha water (10–15 gal/ac).
LECI-TECH Technology

With over 20 years of field and lab experience with lecithin, Loveland Products is the industry leader in the development, manufacturing, and marketing of lecithin-based products and the agronomic benefits associated with this unique technology.

This technology delivers your product to, on and into the plant. We offer four different formulations to fit your farm and tank needs.

<table>
<thead>
<tr>
<th>Product</th>
<th>Acidifier</th>
<th>Defoam</th>
<th>Desposition Aid</th>
<th>Drift Control</th>
<th>Penetrant</th>
<th>Spreader/Sticker</th>
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<tr>
<td>LI 700</td>
<td>LECI-TECH</td>
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NOW THAT’S PERFORMANCE MADE EASY.

You can find more information about these excellent adjuvants at www.uap.ca

ALWAYS READ AND FOLLOW LABEL DIRECTIONS.
## POTATO PROTECTION - Product Application Guide

**LEGEND**
- Herbicide
- Insecticide
- Fungicide
- Seed Treatment
- Plant Nutrients
- Growth Regulator

### Seed Treatment/Pre Plant

<table>
<thead>
<tr>
<th>Product</th>
<th>Pre Land Stage</th>
<th>In-Furrow Stage</th>
<th>Prior to Emergence (up to 21 days)</th>
<th>Vegetative Growth – No Tubers (30-50 days)</th>
<th>Tuber Initiation (10–14 days)</th>
<th>Flower</th>
<th>Tuber Development</th>
<th>Maturation</th>
<th>Post Harvest</th>
</tr>
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<tbody>
<tr>
<td>Eptam</td>
<td>Alias</td>
<td>Capture</td>
<td>Beleaf</td>
<td>Alias</td>
<td>Malathion</td>
<td>Orthene</td>
<td>Silencer</td>
<td>PSPT 10%</td>
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### 110 days average

- **Echo**
- **Echo or Pymazone**
- **Echo or Pendimethalin**
- **Gavel**
- **Echo or Penncozeb**
- **Echo or Penncozeb**
- **Echo**
- **Gavel**
- **Rampart**

A planned program is the best approach. The above recommendations may vary depending on the climate/or season.
Fitting Your Operation

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.

UAP Canada markets over 100 fungicide, insecticide, herbicide, and nutrient products.

Look to UAP to deliver flexibility, freedom, and choice in your crop protection decisions.

Call your nearest crop input dealer today for UAP products.

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.

www.uap.ca
Western Canada: 1-800-561-5444
Ontario & the Maritimes: 1-800-265-5444
Quebec: 1-800-361-9369
British Columbia 1-604-534-8815

Always do a jar test before mixing any products.
A planned program is the best approach. The above recommendations may vary depending on the climate/or season.