



ADAMA

PROTECT YOUR POTATOES

HERBICIDE

INSECTICIDE

FUNGICIDE



HERBICIDE
PRE-PLANT & IN-CROP • BROAD SPECTRUM

GROUP 5

SQUADRON® II

With enhanced pan-granulated formulation, SQUADRON® II has increased solubility, less foaming and better compatibility with other herbicides. This broad-spectrum herbicide is registered for grassy and broadleaf weed control in a wide range of crops, most notably potatoes and soybeans.



ACTIVE INGREDIENT

75% Metribuzin = WDG

PACKAGING

4 x 5 kg jugs

APPLICATION RATES & ACRES TREATED

Rate: Please refer to the label for application rates as these vary based on crop, soil type and application methods.

Acres Treated: 15 – 60 acres/jug

RAINFASTNESS

6 hours after foliar application

REGISTERED CROPS

Potatoes, plus...

- Asparagus (established)
- Fruit trees (newly planted and established)
- Highbush blueberries (newly planted)
- Processing carrots
- Soybeans¹
- Transplanted tomatoes (grown for processing)

¹ Do not use SQUADRON® II on AC Brant, Apache, Baron, Emosa, Maple Amber, Maple Ridge, IA 1003 or S-240 varieties.

WEEDS CONTROLLED

Broadleaf weeds:

- Carpetweed¹
- Cocklebur
- Common chickweed
- Common ragweed
- Corn spurry²
- Dandelion (seedling)
- Green smartweed
- Hemp-nettle²
- Jimsonweed¹
- Lady's thumb
- Lamb's quarters

Grassy weeds:

- Barnyard grass
- Cheat grass
- Crabgrass
- Fall panicum
- Giant foxtail

¹ Pre-emergence only

² Suppression with multiple post-emergent applications of 200 g/ha

³ Post-emergent applications only

- Prickly mallow
- Prostrate pigweed
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed³
- Velvetleaf
- Wild buckwheat³
- Wild mustard
- Wild potato vine
- Yellow woodsorrel¹

- Green foxtail
- Johnson grass (seedling)
- Witch grass
- Yellow foxtail

HOW IT WORKS

Metribuzin inhibits the photosynthesis of grassy and broadleaf weeds. Used pre-emergent, susceptible weeds and crop seedlings emerge through treated soil, but 2–5 days later the weeds show chlorosis and necrosis. Plants treated post-emergent show chlorosis and necrosis between leaf veins, followed by wilting and death.

SOIL TYPES AND RESTRICTIONS

The recommended use rates of SQUADRON® II are dependent upon soil texture and the organic matter content of the soil being treated: coarse, medium and fine.

The following chart outlines the soil textures included in each of the soil texture groupings:

Coarse	Medium	Fine
Loamy sand, Sandy loam	Loam, Silt loam, Silt, Sandy clay loam, Sandy clay	Silty clay loam, Silty clay, Clay loam, Clay

- On variable soils with coarse sandy areas, some crop injury may occur on the sandy areas if the rate used is for the finer soil type.
- Sandy loam and silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions.
- Do not use this product on muck soils. If SQUADRON® II is applied to muck soils, subsequent crops may be injured.
- Do not use on coarse soils with less than 2% organic matter.

CROP ROTATIONS

Rotational crops such as onions, celery, peppers, cole crops, lettuce, spinach, sugar beets, table beets, turnips, pumpkins, squash, cucumbers, melons, tobacco and non-triazine-tolerant canola (rapeseed) are sensitive to Squadron® II and may be injured if planted in soil treated during the year of application or the following crop year.

Fall planted or cover crops such as wheat, oats and rye may be injured when planted within the same season.

MIXING INSTRUCTIONS

1. SQUADRON® II
2. Tank-mix partner

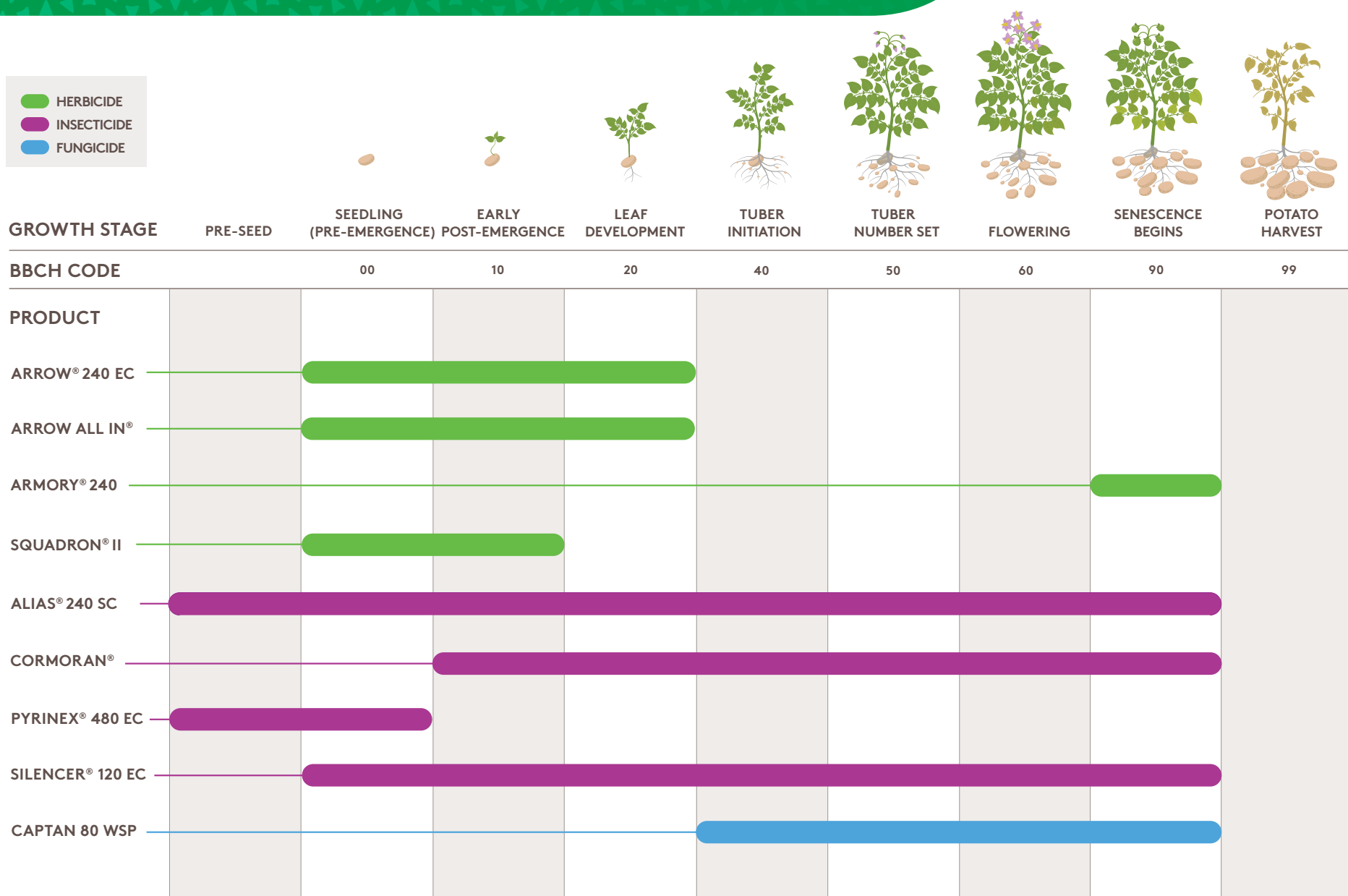
PRE-HARVEST INTERVALS

- Asparagus: 14 days
- Newly planted blueberries: 2 years
- Potatoes: 60 days
- Tomatoes: 60 days

STORAGE

May be stored at any temperature

POTATO GROWTH STAGES



Timing based on using the product alone. Please refer to tank-mix partner labels for crop timing. Always read and follow registered product label instructions. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

EASTERN CANADA

	HERBICIDES			FUNGICIDE
PRODUCT NAME Active Ingredient	ARROW® 240 EC Clethodim	ARROW ALL IN® Clethodim	ARMORY® 240 Diquat	CAPTAN 80 WSP Captan
Group	1	1	22	M4
Replaces	Select®, Centurion®, Shadow®	Unique to ADAMA Formulation advancement compared to Centurion® and Shadow®	Reglone®	Other Captan products
Case Package Size Acres Treated	1 x 3 L jug + 1 x 9 L jug of X-ACT® adjuvant 20–60 acres/jug (depending on weed pressure)	2 x 6 L jugs 20–60 ac/jug	2 X 10 L jugs 7–20 ac/jug	4 foil bags containing 5 pouches of 0.5 kg 6.5–10 ac/case
Crop Staging	All stages	All stages	Pre-harvest	Pre-harvest
Key Weeds or Key Diseases Controlled	Barnyard grass, crabgrass (smooth, large), fall panicum, foxtail (green, yellow), persian darnel, proso millet, quackgrass*, volunteer canarygrass, volunteer cereals (wheat, barley, oats), volunteer corn, wild oats, witch grass	Barnyard grass, crabgrass (smooth, large), fall panicum, foxtail (green, yellow), persian darnel, proso millet, quackgrass**, volunteer canarygrass, volunteer cereals (wheat, barley, oats), volunteer corn, wild oats, witch grass	Potato vines, weeds in stale seedbeds (vegetables and field crops), weeds in vegetables (inter-row directed)	Early blight, late blight
Pest Staging	2–4 leaf for foxtail, wild oats, volunteer cereals 2–6 leaf for all others	Foxtail, wild oats, volunteer cereals: 2- to 4-leaf All other weeds listed: 2- to 6-leaf	Varies by disease	Varies by pest
Tank-Mix Options	None registered for potatoes	None registered for potatoes	Agral® 90, LI 700®, Liberate® and other non-ionic surfactants, Carfentrazone	None registered for potatoes
Rate (when used alone)	Rate: 50–150 ml/ac	Rate: 100–300 ml/ac	Ground: 510–1420 ml/ac Aerial: 680–930 ml/acre	1.0–1.5 kg/ac
Rainfastness	1 hour	1 hour	30 minutes	No restrictions
Mixing Instructions	1. ARROW® 240 EC 2. X-ACT® Surfactant	1. Tank-mix partner 2. ARROW ALL IN®	1. Armory® 240 2. Tank-mix partner 3. Surfactant	1. CAPTAN 80 WSP 2. Tank-mix partner if required NOTE: Vigorous agitation is required for CAPTAN 80 WSP to become fully suspended. The pouches should be completely dissolved before application.
Re-Entry Period	12 hours	12 hours	30 minutes	Hand set/hand line irrigation related activities involving foliage contact: 7 days Roguing: 6 days All other activities: 12 hours
Pre-Harvest Interval	60 days	60 days	Harvesting can typically begin within 4–10 days, depending on weather conditions.	2 days
Storage	May be stored at any temperature	Do not freeze.	Do not freeze.	May be stored at any temperature
Additional Info	ARROW® 240 EC works best when applied to actively growing weeds.	Most effective control is achieved when application is made prior to tillering when annual grasses are small and actively growing.	Best results under cloudy conditions or in the evening. Suggested conditions for aerial applications are a temperature below 25°C, humidity above 50% and wind speed below 9 km/hr at flying height.	Do not excessively handle water-soluble pouches or expose to moisture since this may cause breakage. Do not allow pouches to become wet prior to mixing spray solution.

These are just a few of our many herbicide and fungicide offerings.
To see our full product portfolio for potatoes, please visit our website at ADAMA.com

EASTERN CANADA

INSECTICIDES

PRODUCT NAME Active Ingredient	ALIAS® 240 SC - Foliar Imidacloprid	ALIAS® 240 SC - Seed and Soil Treatment Imidacloprid	CORMORAN® Novaluron and Acetamiprid	SILENCER® 120 EC Lambda-cyhalothrin
Group	4	4	4 and 15	3
Replaces	Admire® 240	Admire® 240	Unique to ADAMA. Replaces: Rimon®, Assail® 70 WP, Delegate™	Matador®, Labamba
Case Package Size Acres Treated	4 × 3.785 L jugs 47 ac/jug	4 × 3.785 L jugs Seed treatment: 210 – 315 lbs seed/jug Soil application: 7 – 11 ac/jug	2 × 10 L jugs 33 – 56 ac/jug Application rates vary by pest. Refer to the label for details.	4 × 3.785 L jugs 110 ac/jug
Crop Staging	The need and timing of application should be based on the presence of pests at vulnerable developmental stages and significant populations as determined by local monitoring. Consult label for specific crop and insect timing.	Seed and seed piece treatment or apply in furrow prior to transplanting.	For Colorado potato beetle, do not apply more than twice to a single generation and do not apply to successive generations. Apply in minimum finished spray volume of 80 L/ac by ground. Do not apply more than once every 10 – 14 days.	The need and timing of an application should be based on the presence of pests at vulnerable developmental stages and significant populations, as determined by local monitoring. Consult the label for specific crop and insect timing.
Key Pests Controlled	Aphids, colorado potato beetle, leafhoppers, potato flea beetle	Aphids, colorado potato beetle, leafhoppers, potato flea beetles, wireworm	Aphids, armyworm, cabbage looper, Colorado potato beetle, European corn borer, leafhopper, spotted wing drosophila	Armyworm, cabbage looper, colorado potato, beetle, cutworms, European corn borer, fall armyworm, potato flea beetle, potato leafhopper, tarnished plant bug, tuber flea beetle
Pest Staging	The need and timing of application should be based on the presence of pests at vulnerable developmental stages and significant populations as determined by local monitoring. Consult label for specific crop and insect timing.			
Tank-Mix Options	None registered	ALIAS® 240 SC may be applied sequentially or mixed with other leading seed treatments that are registered for use in potato crops	Acramite® 50 WS, Luna Sensation™, Polyram® DF WSP, Pristine® WG	Confirm compatibility in advance by premixing small proportional quantities of water with Silencer® 120 EC and the tank-mix partner.
Rate (when used alone)	80 ml/ac	Seed treatment: 12 – 18 ml/100 lbs of seed Soil application: 344 – 526 ml/ac (based on 36-inch row spacing)	180–300 mL/ac See label for details.	34 ml/ac
Rainfastness	Avoid application when heavy rain is forecast.	N/A	Avoid application when heavy rain is forecast	1 hour
Mixing Instructions	1. ALIAS® 240 EC 2. Fill tank with remaining balance of water	When using ALIAS® 240 SC in conjunction with another seed treatment such as Rancona® Apex, Rancona® Pinnacle or Vitaflo® 280, mix just prior to application	1. CORMORAN® 2. Tank-mix partner	Confirm compatibility in advance by premixing small proportional quantities of water with SILENCER® 120 EC and the tank-mix partner.
Re-Entry Period	24 hours	N/A	12 hours	24 hours
Pre-Harvest Interval	7 days	21 days	7 days	7 days
Storage	Store in cool, dry place. Do not freeze.	<ul style="list-style-type: none"> Store unused product in a cool, dry place. Long-term storage of mixed product or carry-over of seed treated with Alias® 240 SC is not recommended. 	<ul style="list-style-type: none"> Store in original, tightly closed container. Do not ship or store near food, seed or fertilizers. Store in cool, dry, locked, well-ventilated area without floor drain. Keep away from fire or open flame, or other sources of heat. 	Do not freeze.
Additional Info	For optimal control, good coverage of the foliage is needed.	For optimal insect control, good coverage of the seed is required. For best results, direct spray on the seed pieces or seed potatoes in the furrow.	Consider early applications of CORMORAN to allow beneficial insects to build up later in the season.	Apply below temperatures of 25°C. Apply in the evening or early morning when temperatures are cool to get the best control.





WHY IS ADAMA DIFFERENT?

We are all in this business because we love agriculture...the business of 'growing'... the passion of feeding our communities, our country, and the world. **It's that simple.**

But getting to that end result, especially in this last decade, has unfortunately become anything but simple.

At ADAMA, we think it's time for a change. And our driving philosophy—**Listen > Learn > Deliver**—was developed with that change in mind.

We **LISTEN** to the retailers and distributors, the growers, our employees, and the agronomic scientists who are continually working to ensure our industry is the most profitable, agronomically sound and sustainable that it can be.

From those same people, we **LEARN** what they need from crop protection companies, and from ADAMA specifically, to help them achieve and exceed those goals.

What we have learned is:

- The myriad of products available is overwhelming.
- Getting supply and delivery of products on time and correctly can be a challenge.
- Complicated grower programs take precious time away from dealing with what matters most.

Basically, what could be simple, is not anymore.

So, with that in mind, ADAMA has a desire to be different! We hire people who truly embody our philosophy, not only to listen, and learn but to develop and **DELIVER**:

- 270+ available actives that allow growers to deal with fewer chemical companies, reducing the complexity of the retail order
- The ability to fast track tank-mix solutions for key pests as we don't need to work with other companies
- The ability for growers to target a myriad of key pests with ADAMA products alone
- No grower programs...just great products and a great price with great service.

In short, products, solutions and services that help us all to focus on what we collectively are and have always been passionate about.

Listen ▶ Learn ▶ Deliver

It can be that simple.



ADAMA

Listen › Learn › Deliver

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 ADAMA Agricultural
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