



ADAMA

# PROTECT YOUR SOYBEANS

HERBICIDE

INSECTICIDE

FUNGICIDE

# LEOPARD®

ADAMA's grass control product to control hard-to-kill grassy weeds in soybeans, dry beans and cucurbit vegetable crops.



## ACTIVE INGREDIENT

Quizalofop-P-ethyl 100 g/L = EC

## PACKAGING

Case: 2 x 7.8 L jugs

## APPLICATION RATES & ACRES TREATED

**Rate:** 150 – 290 ml/ac (standard rate: 195 ml/ac)

**Acres Treated:** 30 – 50 ac/jug (standard rate: 40 ac/jug)

## WATER VOLUME

**Ground:** 40 L/ac (10 US gal/ac)

**Aerial:** 10 L/ac (2.5 US gal/ac)

## RAINFASTNESS

1 hour

## REGISTERED CROPS

### Soybeans, plus...

- Alfalfa, seed
- Beans (dry & snap)
- Canola
- Chickpeas
- Cucurbit vegetables
- Lentils
- Lima, Adzuki & Mung beans (Ontario)
- Peas (field & processing)
- Rutabagas (Ontario & Quebec)
- Sugarbeets

## WEEDS CONTROLLED

Check label as weed stage controlled by LEOPARD® varies.

- Barnyard grass
- Downy brome
- Fall panicum
- Foxtail barley
- Green foxtail
- Japanese brome
- Old witchgrass
- Proso millet
- Quackgrass<sup>1</sup>
- Volunteer cereals (wheat, barley, oats)
- Volunteer corn
- Wild oats
- Yellow foxtail

<sup>1</sup>Suppression at lower rates; control at higher rates

## HOW IT WORKS

LEOPARD® is a selective post-emergent herbicide for the control of annual and perennial grasses. LEOPARD® is a systemic herbicide which is rapidly absorbed and readily translocated for the treated foliage to the root systems and growing points of the plant. Treated plants show a reduction in growth and a loss of competitiveness. An early yellowing and browning of the younger plant tissues is followed by a progressive collapse of the remaining foliage. These symptoms will generally be observed in 1–3 weeks depending on the grass species treated and the environmental conditions. This product does not control sedges or broadleaf weeds.

### CROP STAGING

- Most crops are tolerant at all stages, so target applications at the optimal weed stage.
- Always adhere to the pre-harvest interval for each crop.

### REGISTERED AND SUPPORTED TANK MIXES

- Basagran®
- Glufosinate
- PHANTOM® 240 SL

### MIXING INSTRUCTIONS

1. Thoroughly clean the sprayer by flushing the system with water containing detergent.
2. Fill clean spray tank ½ full with clean water. Start agitation system.
3. If tank-mixing LEOPARD® with another pesticide and/or adjuvant, use the following sequence:
  - a. Water conditioning agents
  - b. Wettable Powders (WP)
  - c. Water Dispersable Granules (WDG)
  - d. Suspension Concentrates (SC) or flowables
  - e. Emulsifiable Concentrates (EC) or oil-based products (LEOPARD®)
  - f. Surfactants (NIS, COC, MSO)
4. Ensure that the herbicide is completely mixed before proceeding to the next step.
5. Add the rest of the required water to the tank. Mix well before applying to the crop.

On repeat tank loads, ensure that the amount of spray solution left in the tank from the previous load is less than 10% of volume about to be mixed.

Do not mix, load or clean spray equipment where there is a potential to contaminate wells or aquatic systems.

### ADJUVANT RATES

- LEOPARD® is not packaged with, but requires, an adjuvant such as:
  - Merge® at 5–10 litres per 1000 litres of spray solution
  - Sure-Mix™ at 0.5% (0.5 litres per 100 litres of spray solution)
  - LI700® at 0.25–0.5% v/v
  - Liberate™ adjuvant at 0.5% v/v
  - Other non-ionic or methylated seed oil adjuvants

### CROP ROTATIONS

No restrictions

### PRE-HARVEST INTERVAL

- Beans (dry and snap), Cucurbits, Faba beans, Rutabagas: 30 days
- Sugarbeets: 60–80 days
- Canola: 64 days
- Lentils, Peas, Small red beans: 65 days
- Soybeans: 80 days
- Chickpeas: 85 days

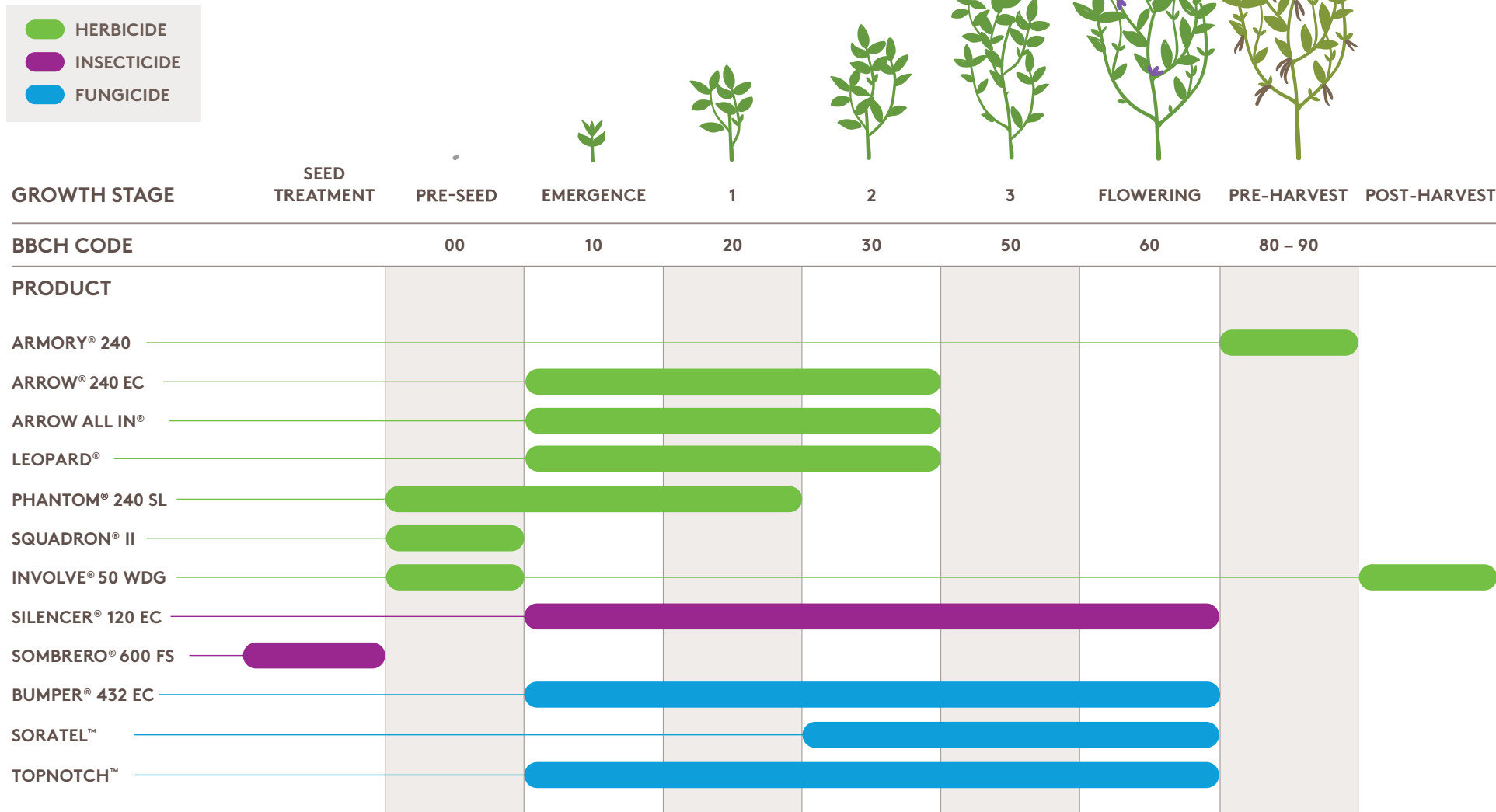
### STORAGE

Do not freeze.



Always read and follow label directions.

# SOYBEAN GROWTH STAGES



Timing based on using the product alone. Please refer to tank-mix partners label for crop timing.

## EASTERN CANADA

### PRODUCT NAME

Active Ingredient

### Group

### Replaces

### Case Package Size

Acres Treated

### Crop Staging

### Key Pests Controlled

### Pest Staging

### Tank-Mix Options

### Rate

(when used alone)

### Rainfastness

### Mixing Instructions

### Re-Entry Period

### Pre-Harvest Interval

### Additional Info

## HERBICIDES

| ARMORY® 240<br>Diquat                     | ARROW® 240 EC<br>Clethodim  | ARROW ALL IN®<br>Clethodim   | PHANTOM® 240 SL<br>Imazethapyr  | SQUADRON® II<br>Metribuzin  | INVOLVE® 50 WDG<br>Tribenuron-methyl   |
|---|---|--|---|---|--|
| 22  | 1   | 1  | 2   | 5   | 2  |
| Reglone®                                  | Select®, Centurion®, Shadow®  | Select®, Centurion®, Shadow®   | Pursuit®  | Sencor®   | Express® SG  |
| 2 x 10 L/case                             | 3 L + 9 L X-ACT®<br>adjuvant/case<br>20–60 ac/case, dependent<br>on weed infestations                 | 2 x 6 L jugs/case<br>20–60 ac/case, dependent<br>on weed infestations                                    | 2 x 3.3 L jugs/case<br>20–26 ac/case  | 4 x 5 kg jugs/case<br>Rate varies by soil type  | 10 x 480 g bags/case<br>800 ac/case  |
| –   | All stages  | All stages   | Pre-plant, pre-emergent or<br>post-emergent   | Pre-plant, pre-plant incorporated,<br>pre-emergence, early post   | Pre-seed and post-harvest  |
| –   | Barnyard grass,<br>foxtail (green, yellow),<br>quackgrass, volunteer<br>cereals, wild oats            | Barnyard grass,<br>foxtail (green, yellow),<br>quackgrass, volunteer<br>cereals, wild oats               | Barnyard grass, cocklebur,<br>common ragweed, crabgrass,<br>eastern black nightshade,<br>foxtail, lady's thumb,<br>lamb's quarters, proso millet,<br>redroot pigweed, smartweed,<br>velvetleaf, wild buckwheat,<br>wild mustard | Ball and wild mustard,<br>barnyard grass, buckwheat,<br>common ragweed, crabgrass,<br>foxtail (green, yellow), green<br>smartweed, lamb's quarters,<br>shepherd's purse, stinkweed,<br>witchgrass | Refer to registered label<br>for complete list of weeds<br>controlled                              |
| –   | 2- to 6-leaf  | 2- to 6-leaf   | up to 4 <sup>th</sup> true leaf   | –   | Refer to registered label for<br>complete list of weeds controlled<br>and appropriate weed staging |
| Agral® 90, LI 700®,<br>Liberate®          | Soybeans<br>(glyphosate-tolerant):<br>glyphosate, PHANTOM®<br>240 SL or Pursuit®                      | Soybeans<br>(glyphosate-tolerant):<br>glyphosate, PHANTOM®<br>240 SL or Pursuit®                         | ARROW® 240 EC, ARROW ALL IN®,<br>Basagran®, Basagran® Forte,<br>Edge®, glyphosate,<br>glyphosate + FirstRate®,<br>LEOPARD®, Lorox® DF,<br>Sencor®, SQUADRON® II,<br>trifluralin   | Axiom® DF, Broadstrike™ Dual,<br>Dual II Magnum®, Frontier®,<br>glyphosate, Lorox® DF,<br>PHANTOM® 240 SL (Pursuit®),<br>Treflan™ E.C.  | Aim® EC, Authority®,<br>Dicamba L, glyphosate  |
| –   | Light infestations: 50ml/ac<br>Moderate infestations:<br>75 ml/ac<br>Quackgrass control:<br>150 ml/ac | Light infestations: 100 ml/ac<br>Moderate infestations:<br>150 ml/ac<br>Quackgrass control:<br>300 ml/ac | Early pre-plant*, pre-emerge:<br>170 ml/ac<br>Pre-plant incorporated:<br>126 ml/ac<br><br>*if weeds are emerged, a + non-ionic<br>surfactant at 0.25% v/v must be added.  | rate varies by soil type  | 6g/acre  |
| 30 minutes                                | 1 hour  | 1 hour   | up to 8 hours   | 6 hours after foliar application  | Avoid if heavy rain is<br>in the forecast.   |
| –   | 1. Tank-mix partner<br>2. ARROW® 240 EC<br>3. X-ACT® surfactant                                       | 1. Tank-mix partner<br>2. ARROW ALL IN®  | 1. PHANTOM® 240 SL<br>2. Tank-mix partner<br>3. Non-ionic surfactant like<br>Agral® 90 or Ag-Surf® at<br>0.25% v/v<br>4. Fertilizer (if desired) at 28% or<br>32% (post-emerge only)  | 1. SQUADRON® II<br>2. Tank-mix partner  | 1. INVOLVE® 50 WDG<br>2. Tank-mix partner<br>3. Surfactant   |
| 12 hours                                  | 12 hours  | 24 hours   | 12 hours  | 12 hours  | 12 hours   |
| –   | 75 days   | 75 days  | 100 days  | 60 days   | 30 days  |
| Avoid morning and<br>evening applications | Must be mixed with<br>X-ACT® adjuvant   | Adjuvant built into<br>the formulation   | Residual control helps<br>with early season<br>weed competition.  | Flexible applications for<br>broad-spectrum weed control  | Activity of the herbicide mixture<br>may be delayed by cold, dry<br>conditions after application.  |

These are just a few of our many herbicide offerings. To see our full product portfolio for soybeans, please visit our website at [ADAMA.com](http://ADAMA.com)

## EASTERN CANADA

### PRODUCT NAME Active Ingredient

### Group

### Replaces

### Case Package Size Acres Treated

### Crop Staging

### Key Pests or Diseases Controlled

### Pest/Disease Staging

### Tank-Mix Options

### Rate (when used alone)

### Rainfastness

### Mixing Instructions

### Re-Entry Period

### Pre-Harvest Interval

### Additional Info

## INSECTICIDES

**SILENCER® 120 EC**  
Lamba-cyhalothrin

3

Matador®

4 × 3.785 L  
160–450 ac/case

Any stage

Soybean aphid, bean aphid, grasshoppers, cutworms, lygus bug, bean leaf beetle

When insects are present

BUMPER® 432 EC

33–94 ml/ac (see label for rates by pest)

Avoid application when heavy rain is forecast.

Confirm compatibility in advance by premixing small proportional quantities of water with SILENCER® 120 EC and the tank-mix partner.

24 hours

21 days

For best results, apply below 25°C.

**SOMBRERO® 600 FS**  
Imidacloprid

4

Stress Shield®

8 × 1.54 L  
60–120 ac/case

Seed treatment

Bean leaf beetle, seedcorn maggot, soybean aphid, wireworm

Used as a protective seed treatment

Apron-Maxx RTA®

47–94 ml/100 lbs of seed

Not Applicable

1. Fungicide  
2. Coating agents  
3. SOMBRERO® 600 FS

Not Applicable

Not Applicable

Apply at 10°C or warmer due to high viscosity.

## FUNGICIDE

**BUMPER® 432 EC**  
Propiconazole

3

Tilt®

2 × 4.8 L  
80 ac/case

Surface and systemic protection  
See tank-mix partner labels if spraying at herbicide timing.

Blight, blotches, brown rot, powdery mildew, rusts, septoria spot, scalds, tan spot

Apply when disease first appears. Under severe disease pressure, make a second application 14 days after the first application.

SILENCER® 120 EC

120 ml/ac

1 hour

1. BUMPER® 432 EC  
2. Tank-mix partner

12 hours

50 days

Do not mix with copper products, jar test.

These are just a few of our many insecticide and fungicide offerings. To see our full product portfolio for soybeans, please visit our website at [ADAMA.com](http://ADAMA.com)

 Always read and follow label directions.





# 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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1.855.264.6262

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