

84930-23

10/31/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Scott Baker
Arcana, LLC
P.O. Box 26
Timnath, CO 80547

OCT 31 2013

Subject: Label Amendment
Product Name: Arc-Metolazine Herbicide
EPA Registration Number: 84930-23
Application Dated: June 14, 2013

Dear Mr. Baker,

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

A stamped copy of your label is enclosed for your records. This label supersedes all previously accepted labels. You must submit one (1) copy of the final printed label before you release the product for shipment. At your next label printing, or within eighteen (18) months of the date of this letter, whichever comes first, you must incorporate this supplemental label into the main product label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA §6(e). Your release for shipment of the product constitutes acceptance of these conditions.

If you have any questions, please contact Emily Hartman of my staff at (703) 347-0189 or hartman.emily@epa.gov.

Sincerely,


Kable Bo Davis, Product Manager 25
Herbicide Division
Registration Division
Office of Pesticide Programs

Restricted Use Pesticide
(Ground and Surface Water Concerns)

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.
This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

ARC-METOLAZINE

Supplemental labeling
EPA REG. NO. 84930-23
FOR USE IN SWEET CORN

READ THE ENTIRE ARC METOLAZINE HERBICIDE LABEL BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABEL

This supplemental label expires on December 31, 2014 and must not be used or distributed after that date.
ARC-METOLAZINE must not be used in accordance with this labeling after December 31, 2014.

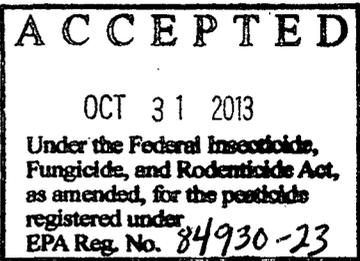
KEEP OUT OF REACH OF CHILDREN

CAUTION

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
This labeling and the EPA registered labeling must be in the possession of the user at time of pesticide application.
All applicable directions, restrictions and use restrictions on ARC METOLAZINE HERBICIDE label(s) are to be followed. This labeling contains supplemental instructions and restrictions for use of this product which may not appear on the ARC METOLAZINE HERBICIDE label. Follow the instructions carefully.
THIS PRODUCT APPLIED ALONE – SWEET CORN Early Preplant, Preplant Surface-Applied, Preplant incorporated, or Preemergence

Weeds Controlled		Weeds Partially Controlled **
Barnyardgrass (watergrass) Browntop panicum Carpetweed Chickweed Cocklebur* Common purslane Common ragweed Crabgrass Crowfootgrass Fall panicum Florida pusley Foxtail millet Galinsoga Giant ragweed* Goosegrass Green foxtail	Henbit Jimsonweed Lambsquarters Morningglory Mustards Nightshades Pigweed Prairie cupgrass Red rice Signalgrass (Bracharia)* Smartweed Southwestern cupgrass Velvetleaf* Witchgrass Yellow foxtail Yellow nutsedge	Sandbur Seeding johnsongrass Shattercane Sicklepod Volunteer sorghum Wooly cupgrass



*Control of these weeds can be erratic, especially under dry weather conditions. Control escaped weeds with cultivation or application of an appropriate EPA-registered postemergence herbicide. On fine-textured soils, only partial control can be expected.

**Control may be improved by following these suggested procedures:

- 1) Apply up to the maximum single application rate in Table 1 for your given soil texture and rate limitation based on your soil conservation practices.
- 2) Thoroughly till moist soil to destroy germinating and emerged weeds. If this product is to be applied preplant incorporated, this tillage may be used to incorporate this product if uniform 2-inch incorporation is achieved as recommended under Application Procedures.

- 3) Plant crop into moist soil immediately after tillage. If this product is to be used preemergence, apply at planting or immediately after planting.
- 4) If available, sprinkler irrigate within 2 days after application. Apply one-half to 1 inch of water. Use lower water volume (one-half inch) on coarse-textured soils and higher volume (1 inch) on fine-textured soils.
- 5) If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.

This Product Rate Limitations

When tank mixing or sequentially applying products containing atrazine and/or simazine to Corn, do not exceed an application rate of 2.0 pounds active ingredient of atrazine for any single application, and the total pounds of atrazine and/or simazine applied (lbs. a.i./A) must not exceed 2.5 pounds per acre per year.

Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or greater setbacks) which are different from the label, the more restrictive/protective requirements must be followed.

Certain states may have established rate limitations within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use.

NOTE: For purposes of calculating total atrazine ingredient applied, this product contains 3.1 lbs. atrazine per gallon (0.775 lbs a.i./qt).

FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE

- On Highly Erodible Land (as defined by the national Resource Conservation Service) If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at planting, apply a maximum of 2.5 qts./A as a single broadcast spray. Refer to "B" in tables following. If the soil coverage with plants residue is less than 30% at planting a maximum of 2.0 qts./A may be applied as a single pre-emergence application. Refer to "A" in tables following.
- On Land Not Highly Erodible Apply a maximum of 2.5 qts./A as a single broadcast spray. Refer to "B" in tables following.

FOR POSTEMERGENCE APPLICATION

If no atrazine and/or simazine was applied prior to Corn emergence, apply a maximum of 2.5 qts./A broadcast. If a postemergence treatment is required following an earlier herbicide application, the total atrazine and/or simazine applied may not exceed 2.5 lbs. per acre per calendar year.

Application Timings and Procedures

Early Preplant: Use on medium- and fine-textured soils with minimum-tillage or no tillage systems in CO, IA, IN, KS, KY, MN, MO, MT, ND, NE, SD, TN, WI, and WY. Apply two-thirds the specified rate of this product as a split treatment 30 to 45 days before planting and the remainder at planting, using the rates in Table 1. Applications made less than 30 days prior to planting may be either a split or single treatment. Use the lower rate for light expected weed infestations and the higher rate for heavy expected weed infestations. On coarse-textured soils, apply 2.0 qts./A not more than 2 weeks prior to planting. The above procedure may follow if Atrazine, metolachlor, or Simazine is used in tank mixtures with this product. Substitute a fluid fertilizer for some or all the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present at the time of treatment, apply in a tank-mixture combination with a contact herbicide (for example, Gramoxone Inteon or Glyphosate). Observe directions for use, use restrictions, and restrictions on the label of the contact herbicide.

On medium- and fine-texture soils with minimum- or no-tillage systems in DE, MD, MI, NY, OH, PA, VA, and WV, early preplant applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide may be used i.e., Atrazine, Beacon, Banvel, Basafran, bromoxnil (Brominal or Buctil), Exceed, Marksman. Or 2,4-D. If the postemergence treatment includes the herbicide used early preplant, do not exceed the labeled rate for Corn on a given soil texture. Observe all directions for use, use restrictions, and limitations on the label of the postemergent herbicide.

This product may be used according to the above directions to control Winter Wheat planted as a cover crop in IN, KY, and OH, in addition to providing residual weed control. The Wheat must be less than 6 inches tall (preferably still in a dormant or semi-dormant state coming out of Winter) at the time of application. Depending on rainfall, 10 to 20 days may be required to completely kill the Wheat. In the event that unsatisfactory and the

application of a contact herbicide (i.e Gramoxone Inteon, Touchdown or Glyphosate) may be required before planting the crop.

This product may be applied in the Fall, as a single application, for control of the Winter weeds listed on this label within the ecofallow (no-till) production areas of NE and KS, where Wheat (or other small grain cereals) will be rotated to Corn. The application must be made to untilled Wheat stubble in the Fall following Wheat harvest, but before soil freeze-up. The ground must remain untilled through the establishment of the Corn crop. Fall application should not be applied to the frozen ground, and this is restricted to IA, MN, ND, SD, WI, and portions of NE and IL.

On medium- and fine-textured soils following final seedbed preparation in the Blacklands and the Gulf Coast areas of TX, a early preplant application of this product at 1.6 to 1.9 qts./A may be made 30 to 45 days before planting. Grass suppression of 2 to 3 weeks after planting can be expected as a result of this application. Do not incorporate or disturb the soil before planting and avoid moving the soil during the planting operation. A follow-up application of Metolachlor may be needed in fields with a history of heavy grass pressure. Apply after planting, but before Corn and grass weeds emerge.

NOTES: (1) If a follow-up application of Metolachlor is needed, do not exceed a total of 1.6 lbs of Metolachlor per acre, including the preplant application of this product on medium- or fine-textured soils. On fine-textured soils with more than 3% organic matter, do not exceed 1.9 lbs. of Metolachlor. [To determine the total pounds of Metolachlor per acre, use the following 2-step method:

- A. Determine the pounds of Metolachlor applied as this product (1 qt. = 0.6 lb. of Metolachlor); then,
- B. If Metolachlor, is to be used, add the pounds a.i. to be applied in these products to the pounds in Step A above]

(2) To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

Table 1: This Product – Early Preplant Application

Soil Texture***	Single Application	Split Application*	
		30 to 45 DBP**	At Planting
Coarse - Sand, Loamy Sand, Sand loam	2.0 qts./A	DO NOT APPLY	
Medium - Loam, Silt loam, Silt	A. 2.0 qts./A	1.4 qts./A	0.6 qt./A
	B. 2.0 to 2.5 qts./A	1.4 qts./A to 1.7 qts./A	0.6 qt./A to 0.8 qt./A
Fine - Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	A. 2.0 qts./A	1.4 qts./A	0.6 qt./A
	B. 2.5 qts./A	1.7 qts./A	0.8 qt./A

*Split applications can be made less than 30 days before planting if desired.

**DBP – Days before plants

***Do not use on peat or muck soils.

- A. Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank-mix partner or an application of a postemergence herbicide may be needed.
- B. Use these rates for all other applications.

Use Restriction: Do not graze or feed forage from treated areas for 60 days following application.

Preplant Surface, Preplant Incorporated, or Preemergence: Apply this product preplant surface, preplant incorporated, or preemergence, using the appropriate rates for Table 2.

Preplant Surface: Apply uniformly to the soil surface within 14 days before planting. Where applications are made to coarse soils more than 7 days before planning, use the rates in Table 1.

Preplanting Incorporated: Apply to the soil and incorporate into the top 2 inches of the soil within 14 days before planting, using a finishing disk, finishing harrow, rolling cultivator, or similar implements capable of method if furrow irrigation is used or when a period of dry weather after application is expected. If crop is to be planted on beds apply and incorporate after bed formation.

Preemergence: Apply to the soil surface at planting (behind the planter) or after planting, but before seeds or crop emerge.

Table 2: This Product—Preplant Surface, Preplant Incorporated, or Preemergence Application

Soil Texture	Broadcast Rate Per Acre
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	Less Than 3% Organic Matter	3% Organic Matter or Greater
Coarse - Sand, Loamy Sand, Sandy Loam	1.3 qts	1.6 qts
Medium - Loam, Silt loam, Silt	1.6 qts	2.0 qts
Fine - Sandy Clay loam, Silty clay loam, Clay loam, Silty clay, Sandy Clay, Clay	2.0 qts	A. 2.0 qts
		2.0 to 2.5 qts*
Muck or peat soils (more than 20% organic matter)	DO NOT USE	

*For Cocklebur, Yellow nutsedge, and Velvetleaf control fine-textured soils above 3% organic matter: Apply 2.5 qts. of this product per acre.

A. Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank-mix partner or an application of a postemergence herbicide may be needed.

B. Use this rate for all other applications.

Notes: (1) In the event of escape of annual weeds following an early preplant, preplant surface, preplant incorporate, or preemergence treatment of this product applied alone or in combination, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e. Atrazine, Accent, Banvel, Basagran, Beacon, Brominal, Buctril, Exceed, Marksman, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the labeled rate for Corn on a given soil texture. (2) Brominal or Buctril may be applied postemergence alone or in tank mix combination with Atrazine. Do not exceed 1.2 lbs of Atrazine per acre in tank mix combination with Brominal or Buctril postemergence. Refer to the Atrazine, Brominal, and Buctril labels for specific rates and restrictions. (3) If products containing atrazine and/or simazine are used postemergence following application of this product, do not exceed a total of 2.5 lbs a.i./A of atrazine and or simazine per year. (4) Substitute a fluid fertilizer for some or all of the water carrier for burndown of existing annual weeds listed on this label up to the 2-leaf stage of development. The addition of crop oil concentrate to the spray mixture will enhance the burndown activity. If larger weeds are present, add a contact herbicide as noted in this THIS PRODUCT COMBINATIONS section of this label.

Use Restriction: Do not graze or feed forage from treated areas for 60 days following application.

Rotational crops

Do not rotate to food or feed crops other than those listed below: (1) If treated crop is lost due to poor germination, hail, flood, insects, ect., Corn may be replanted immediately or Sorghum may be replanted immediately, provided the seed has been properly treated with the original application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied. (2) Corn, Sorghum, Soybeans, Cotton, or Peanuts may be planted in Spring following treatment. Do not graze or feed forage of jury may occur to Soybeans planted the year following application on soils having a calcareous surface layer. (4) In Easter parts of the Dakotas, KS, Western MN, and NE, do not rotate to Soybeans for 18 months following application if the rate applied to Corn of Sorghum was more than 2 pounds of atrazine of equivalent band application rate, or Soybean injury may occur. (5) If applied after June 10, do not rotate with crops other than Corn or Sorghum the next year, or crop injury may occur. (6) In the High Plains and Intermountain areas of the West, where rainfall is sparse and erratic or where irrigation is required, use only when Corn or Sorghum is to follow Corn or Sorghum, or a crop of untreated Corn or Sorghum is to precede other rotational crops. (7) Do not plant Sugar beets, Tobacco, vegetables (including Dry beans), Spring-seeded small grains, or small-seeded Legumes the year following application, or injury may occur.

Postemergence Broadcast Application

Weed Controlled		Weeds Partially Controlled**
Barnyardgrass (watergrass)	Kochia	Yellow nutsedge
Cocklebur	Lambsquarters	
Common ragweed	Morningglory	
Crabgrass	Mustard	
Crowfootgrass	Pigweed	
Fall panicum	Prickly sida	
Flixweed	Purslane	

Giant foxtail Green foxtail Jimsonweed	Smartweed Velvetleaf Waterhemp Yellow foxtail	
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APPLICATION: Apply early postemergence, using the appropriate rate from Table 3. Apply this treatment before grass and broadleaf weeds pass the 2-leaf stage and before Corn reaches 12 inches in height. Application to weeds larger than 2-leaf stage will generally result in unsatisfactory control. Occasional Corn leaf burn may result, but this should not affect later growth or yield. Do not apply postemergence in fluid fertilizer, or severe crop injury may occur.

Table 3: Postemergence Broadcast Application

Soil Texture	Broadcast Rate Per Acre
Coarse - Sand, Loamy sand, Sandy loam	1.6 qts
Medium - Loam, Silt loam, Silt	2.0 qts
Fine - Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	2.0 to 2.5 qts*
*For better residual control of Cocklebur, Velvetleaf, and Yellow nutsedge on fine-texture soils above 3% organic matter apply 2.5 qts. of this product per acre.	

Notes: (1) If this product has been applied early preplant, preplant surface, preplant incorporated, or preemergence, do not exceed an application rate of 2 pounds atrazine active ingredient of atrazine and/or simazine applied (lbs. a.i./A) must not exceed 2.5 pounds active ingredient per acre per year. (2) If Atrazine and/or Simazine or atrazine plus metolachlor tank mixtures have been applied early preplant, preplant surface. Preplant incorporated, or preemergence, limit this product early post application not to exceed a total of 2.5 lbs of atrazine and/or simazine or 3.75 lbs. or the active ingredients in metolachlor products or its component in this product per acre on a Corn crop, or illegal residues may result.

Use Restrictions: Do not use on peat or much soils. Don not graze or feed forage from treated areas for 60 days following application.

Rotational Crops: Following the preceding crop rotation instructions for THIS PRODUCT—EARLY PREPLANT, PREPLANT SURFACE-APPLIED, PREPLANT INCORPORATED, OR PREEMERGENCE.

Postemergence—Directed Application: This product may be applied at 1.3 to 2.5 qts./A in a minimum of 15 gallons of water as a postemergence directed treatment to extend control of weeds listed in the EARLY PREPLANT, PREPLANT SURFACE—APPLIED, PREPLANT INCORPORATED, PREEMERGENCE, OR POSTEMERGENCE BROADCAST section. Apply using the appropriate rate from Table 4.

For best results, apply this product to weed-free soil following use of a preplant surface, preplant incorporated, postemergence herbicide, or following a lay-by cultivation. If weeds have emerged at the time of this product application, apply before grass and broadleaf weeds exceed the 2-leaf stage. Application to weeds larger than the 2-leaf stage will generally give unsatisfactory control. Apply to Corn not exceeding 12 inches in height. Minimize contact with Corn leaves. Do not apply postemergence in fluid fertilizer, or severe crop injury may occur.

Use Restrictions: To avoid possible illegal residues, do not graze or feed forage from treated areas for 60 days following application, do not use on muck soils.

Table 4: Postemergence—Directed Application

Soil Texture	Broadcast Rate Per Acre
Coarse - Sand, Loamy sand, Sandy loam	1.3 qts
Medium - Loam, Silt loam, Silt	2.0 qts
Fine - Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	2.0 to 2.5 qts*
*For better residual control of Cocklebur, Velvetleaf, and Yellow nutsedge on fine-texture soils above 3% organic matter apply 2.5 qts. of this product per acre.	

Notes: (1) If this product has been applied early preplant, preplant surface, preplant incorporated, preemergence, do not exceed an application rate of 2.0 pounds active ingredient of atrazine for any single application, and the total pounds of atrazine and/or simazine applied (lbs. a.i. per acre) must not exceed 2.5 pounds active ingredient per acre per year. (2) If atrazine and/or simazine or atrazine plus metolachlor tank mixtures have been applied preplant, preplant surface, preplant incorporated, or preemergence,

limit the post-directed application of this and/or simazine or 3.75 lbs. of the active ingredient in metolachlor product or its component in this product per acre on a corn crop, or illegal residues may result.

THIS PRODUCT IN TANK MIXTURE*

Always follow label instructions for tank-mix products when mixing with this product. Do not graze or feed forage from treated areas for 30 days following application. *When tank-mixing product with Atrazine formulations, refer to THIS PRODUCT RATE LIMITATIONS section of this label. Do not exceed the following:

On highly erodible land with less than 30% plant residue cover prior to crop emergence	1.6 lbs of atrazine
On other land prior to crop emergence	2.0 lbs of atrazine
Postemergence application only – any land	2.0 lbs of atrazine
Preemergence + postemergence applications	2.5 lbs of atrazine

When tank-mixing or sequentially applying products containing atrazine and/or simazine corn, do not exceed an application rate of 2.0 pounds active ingredient of atrazine for any single application, and the total pounds of atrazine and/or simazine applied (lbs. a.i./A) must not exceed 2.5 pounds per acre per year.

TANK MIXTURE WITH ATRAZINE, METOLACHLOR, OR SIMAZINE ----- CONVENTIONAL TILLAGE

Atrazine (4L or 90DF): Add up to 1 qt. of Atrazine 4L (1.1 lbs. 90DF) per acre to the rate of up to 2 qts. specified in Table 2 and 0.5 qt. of Atrazine 4L (0.6 lb. of Atrazine 90DF) to the 2.5 qts. rate of this product in Table 2 in the Southeastern U.S. where high rainfall can shorten the duration of control of broadleaf weeds. And in all areas where heavy infestations of Cocklebur, Morningglory, Velvetleaf, or other broadleaf weeds claimed are expected.

Metolachlor: Add up to one-third pint of Metolachlor per acre to the rate of this product specified in Table 2 when heavy infestations of Yellow nutsedge, Sandbur, or seeding Johnsongrass are expected.

Simazine (4L or 90DF): Add up to 1 qt. of Simazine 4L (1.1 lbs of 90DF) per acre to the rate of this product specified in Table 2 where heavy infestations of Crabgrass or Fall panicum are expected or additional control of certain broadleaves is desired.

Tank Mixture of This Product Alone or This Product + Atrazine, Metolachlor, or Simazine with Gramoxone Inteon, Landmaster BW, Touchdown, or Glyphosate for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Inteon, Landmaster BW, Touchdown, or Glyphosate should be tank mixed with this product alone or with this product plus Atrazine, Metolachlor, or Simazine. When used as directed, the Gramoxone Inteon portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. Landmaster BW, Touchdown, or Glyphosate combinations will control emerged annual and perennial weeds when applied as directed on its label. The tank mixture portion of this product provides preemergence control of the weeds listed on this label in **This Product Alone** section. The addition of Atrazine, Metolachlor, or Simazine offers the advantage indicated for each under **Tank Mixture with Atrazine, Metolachlor, or Simazine ----- Conventional Tillage** section.

Application: Apply before, during, or after planting, but before corn emerges, at the appropriate rate in Table 5. Up to 1 qt. of Atrazine 4L (1.1 lbs. of 90DF) per acre may be added to the rate of up to 2 qts. specified in Table 5 and 0.5 qt. of Atrazine 4L (0.6 lb. Atrazine 90DF) to the 2.5 qts. rate of this product specified in Table 5; or one-third pint of metolachlor, or 1 qt of Simazine 4L (1.1 lbs. of 90DF) per acre may one Inteon, Landmaster BW, Touchdown, or Glyphosate at labeled rates.

Apply in 20 to 60 gallons of water per acre with conventional spray equipment.

Tank Mixture of This Product Alone or This Product + Atrazine with 2,4-D + Banvel for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, this product may be applied in combination with Atrazine. When used as directed, the tank mixture portion of this product provides preemergence control of the weeds listed on this label in the **This Product Alone** section. The addition of Atrazine offers the advantage indicated for each under **Tank Mixture with Atrazine, Metolachlor, or Simazine – Conventional Tillage** section.

Application: Apply this product before, during, or after planting, but before corn emerges, at the appropriate rate in Table 5. Up to 1 qt. of Atrazine 4L(1.1 lbs of Atrazine 90DF) per acre may be added to the rate of up to 2 qts. specified in Table 5. Where heavy crop residues exist, add an appropriately labeled 2,4-D amine or low volatile ester to the spray tank last and apply in a minimum of 25 gallons of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before Corn emergence, enhance burndown of existing weeds, and therefore are recommended instead of water. Add surfactant cleared for use on growing crops at its specified rate. Apply before weeds exceed 3 inches in height. If Alfalfa is present, add Banvel to the spray mixture at 0.33 to 0.5 pt/A and apply before Alfalfa exceeds 6 inches in height.

For fields with existing sod grasses (e.g. Bromegrass, Orchardgrass, Rye, or Timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Gramoxone Inteon at the rate of 2.5 pts/A in place of, or in addition to 2,4-D, as indicated above. Do not apply Gramoxone Inteon in suspension-type liquid fertilizer. Observe all directions for use, use restrictions, and limitations on the respective product labels when applying these products in tank mix combination.

Note: When tank-mixing or sequentially apply products containing atrazine and/or simazine, do not exceed a total of 2.5 lbs. of atrazine and/or simazine active ingredient(s) per acre per calendar year.

Table 5: this Product for Minimum-Tillage or No-Tillage Application

Soil Texture	Broadcast Rate Per Acre
Course - Sand, Loamy sand, Sandy Loam	1.6 qts
Medium - Loam, Silt loam, Silt	2.0 qts
Fine - Sandy clay loam, Silty clay loam, Clay loam, Silty clay, Sandy clay, Clay	A. 2.0 qts
	B. 2.0 to 2.5 qts*
Muck or peat soils	DO NOT USE

*For Cocklebur, Yellow nutsedge, and Velvetleaf control on fine-texture soils above 3 % organic matter, apply 2.5 qts of this product per acre.

A. Do not exceed this rate on highly erodible land with less than 30% plant residue cover. Control of certain weeds may be reduced and a tank mix partner or an application of a postemergence herbicide may be needed.

B. Use this rate for all other applications.

Tank Mixture with Linuron for control of Lambsquarters and Pigweed

For prolonged control of Lambsquarters and pigweed in DE, MD, NJ, NY, PA, VA, and WV, this product may be applied preemergence in combination with Linuron. Apply this product according to the rates in Table 2 and Linuron according to the following rates:

Soil Texture	Broadcast Rate Per Acre
Sandy loam (1 to 3 % organic matter)	0.67 lb. Linuron*
Sandy loam (3 to 6% organic matter)	1.0 lb. Linuron*
Medium-and fine-texture soils (1 to 6% organic matter)	1.0 lb. Linuron*

*When using Linuron 4L or Linuron DF, use equivalent rates. One pint of Linuron 4L equals 1 lb of Linuron DF

Follow instructions and use restrictions on this product and Linuron labels when tank-mixing these products.

Rotational Crops: Follow the crop rotation instructions in the section --- This Product Alone.

Formulated For:
 Arcana LLC
 1966 W 15th Street
 Suite 6
 Loveland, CO 80538