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AE1162464™ WG 63 Herbicide



Bayer CropScience

GROUP	2	HERBICIDE
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FOR CONTROL OF ANNUAL GRASSES AND ANNUAL BROADLEAF WEEDS
IN FIELD CORN

WETTABLE GRANULES

FOR USE IN EASTERN CANADA ONLY

AGRICULTURAL

GUARANTEE: thiencazone-methyl 21%

WARNING, CONTAINS THE ALLERGEN SULPHITES

REGISTRATION NO. 29069 PEST CONTROL PRODUCTS ACT

WARNING - EYE IRRITANT

READ THE LABEL AND LEAFLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 1 Kg to Bulk

Product Information: 1-888-283-6847

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. S.E.
Calgary, Alberta T2C 3G3

In case of spills, poisoning or fire, telephone emergency response number
1-800-334-7577 (24 hours a day).

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. 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. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE: See the printed booklet provided with this container.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Causes eye irritation. DO NOT get in eyes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Applicators and other handlers must wear long-sleeved shirts, long pants, and shoes plus socks. In addition, during mixing/loading, clean up and repair, workers must wear chemical-resistant gloves such as barrier laminate, or butyl rubber > 14 mils or nitrile rubber > 14 mils, and protective eyewear (safety glasses). Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

- Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at: www.croplife.ca.

FIRST AID: Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed	<ul style="list-style-type: none">• Call a poison control centre or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control centre or doctor.• Do not give anything by mouth to an unconscious person.
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If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control centre or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control centre or doctor for further treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15–20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

TOXICOLOGICAL INFORMATION: No specific antidote is available. Treat the patient symptomatically.

ENVIRONMENTAL HAZARDS: This product contains an active ingredient which is toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE: Do not contaminate, water, food, or feed by storage and disposal. Store product in original container only and keep closed. Store in a cool, dry place away from other pesticides, feeds, seeds, fertilizers, food, or feed. Do not use or store in or around the home.

DISPOSAL AND DECONTAMINATION:

Recyclable Container

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.

2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

Returnable Container: Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Returnable-Refillable Container: For disposal, this empty container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

Disposal of Unused, Unwanted Product: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

™AE1162464 is a trademark of Bayer.

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GENERAL INFORMATION

SECTION 1: NOTICES

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. 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. The user assumes the risk to persons or property that arises from any such use of this product.

SECTION 2: THE PRODUCT

AE1162464™ WG 63 Herbicide is a post-emergence herbicide which controls annual grasses and broadleaf weeds in field corn grown in Eastern Canada utilizing conventional tillage systems.

SAFETY AND HANDLING

SECTION 3: PRECAUTIONS, PROTECTIVE CLOTHING AND EQUIPMENT

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

Causes eye irritation. DO NOT get in eyes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Applicators and other handlers must wear long-sleeved shirts, long pants, and shoes plus socks. In addition, during mixing/loading, clean up and repair, workers must wear chemical-resistant gloves such as barrier laminate, or butyl rubber > 14 mils or nitrile rubber > 14 mils, and protective eyewear (safety glasses).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

- Wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
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- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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SECTION 4: FIRST AID AND TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION: No specific antidote is available. Treat the patient symptomatically.

SECTION 5: ENVIRONMENTAL HAZARDS AND INFORMATION

This product contains an active ingredient which is toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

SECTION 6: STORAGE

Do not contaminate, water, food, or feed by storage and disposal. Store product in original container only and keep closed. Store in a cool, dry place away from other pesticides, feeds, seeds, fertilizers, food, or feed. Do not use or store in or around the home.

SECTION 7: DISPOSAL AND DECONTAMINATION

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DIRECTIONS FOR USE

SECTION 8: CROPS AND WEEDS

8.1 CROPS AND APPLICATION TIMING

Corn

AE1162464 WG 63 Herbicide is a post-emergence herbicide intended for application as a foliar spray in corn.

CROP	GROWTH STAGE	REMARKS
Field Corn	Field corn may be treated when at the 1-leaf stage of growth up to and including 6 leaf	Do not apply AE1162464 WG 63 Herbicide to corn that exhibits injury from previous herbicides applications.

8.2

APPLICATION RATE AND WEEDS CONTROLLED

SPRAY ADDITIVES: AE1162464 WG 63 Herbicide is to be used in conjunction with an NIS adjuvant such as Agral 90 or Agsurf at 0.25% volume/volume plus liquid nitrogen fertilizer (28% UAN). Use of a spray-grade liquid nitrogen fertilizer is recommended.

APPLICATION RATES

Products	Rates
AE1162464 63 WG plus Agral 90 or Agsurf plus UAN (28%)	36 g/ha 0.25% Vol/Vol 2.5 L/ha

WEEDS CONTROLLED

A single application of AE1162464 WG 63 Herbicide will control the following annual broadleaf and grassy weeds when applied along with the recommended adjuvant system.

ANNUAL BROADLEAF AND GRASS WEEDS	RECOMMENDED STAGE
Common Lamb's-quarters	up to 4 leaf-stage*
Red Root Pigweed	up to 6 leaf-stage
Green Foxtail	up to 2 tillers

*Suppression from the 4-6 leaf stage

- Best results are obtained when applications are made to young actively growing weeds.
- Best control of broadleaf weeds is achieved prior to the 6-leaf stage and actively growing.
- Best control of grass weeds is achieved prior to tillering and actively growing.
- Weed growth ceases within hours after AE1162464 WG 63 Herbicide is applied. Symptoms on susceptible weed species progress from yellowing to necrosis resulting in eventual plant death generally within 14 to 21 days after application.

8.3 RAINFASTNESS

AE1162464 WG 63 Herbicide is rainfast 1 hour after application to most weed species.

SECTION 9: APPLICATION INSTRUCTIONS AND USE LIMITATIONS

9.1 GENERAL REMINDERS FOR SUCCESSFUL OPERATION

- DO NOT apply more than one application of AE1162464 WG 63 Herbicide to corn in one growing season.
- DO NOT APPLY BY AIR.
- Do not apply AE1162464 WG 63 Herbicide to corn that exhibits injury from previous herbicides applications.
- For best results, apply to emerged, young, actively growing weeds.
- AE1162464 WG 63 Herbicide will have an effect on weeds that are larger than the recommended leaf stage; however the speed of activity and level of control may be reduced.
- Weed control may be reduced if the application is made when weeds are dust covered or in the presence of heavy dew, fog, and mist/rain or when weeds are under stress and not actively growing due to drought, heat, lack of fertility, flooding, or prolonged cool temperatures.
- Under cool and/or dry conditions activity may be reduced or delayed.
- If crop is under stress due to abnormal environmental conditions, delay application until stress passes and after both crop and weeds have resumed active growth.
- Follow directions under Section 8 for the correct rate and timing of application.
- DO NOT apply when wind causes drift to off-site vegetation as injury may occur. AE1162464 WG 63 Herbicide delivered via drift or tank contamination can cause severe damage to other crops. Careful management of spray drift and tank cleanout is required (refer to section 9.3- SPRAY DRIFT MANAGEMENT and section 12-SPRAYER CLEAN-UP).

9.2 GROUND APPLICATION

- Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.
- Apply with ground equipment. DO NOT APPLY BY AIR.
- Apply AE1162464 WG 63 Herbicide as a broadcast spray in a minimum of 150 L/ha of water and at a pressure of 175 - 275 kPa.
- Good coverage is essential to achieve optimum weed control.
- Uniform, thorough spray coverage is important to achieve consistent weed control. Select nozzles and pressure that deliver MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver COARSE spray droplets may be used to

- reduce spray drift provided spray volume per hectare (L of water/ha) is increased to maintain coverage of weeds.
- Flat fan nozzles of 80° or 110° are recommended for optimum post emergence coverage. Do not use nozzles that produce FINE (e.g. - Cone) or EXTRA COARSE (e.g. - Flood jet) spray droplets.
 - Boom height should be based on the height of the crop – at least 33 centimetres above the crop canopy.
 - Proper agitation should be maintained within the tank to keep the product dispersed.

9.3 SPRAY DRIFT MANAGEMENT AND BUFFER ZONES

- Spray drift may result in injury to non target crops or vegetation. AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR.
- To avoid spray drift, do not apply when wind speed is greater than 15 km/h or during periods of temperature inversions. Do not apply when weather conditions, wind speed or wind direction may cause spray drift to non-target areas.
- The most effective way to reduce drift potential is to apply the largest droplets that provide sufficient coverage and weed control. Applying larger droplets reduces drift potential, but may not prevent spray drift if unfavorable environmental conditions exists (e.g. wind direction toward sensitive areas or wind speed greater than 15 km/h).
- To minimize risk of spray drift, select nozzles and pressures that deliver MEDIUM spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572. Nozzles that deliver COARSE spray droplets may be used to further reduce spray drift potential, however, application volume per hectare (L of water per hectare) should be increased to maintain coverage and weed control.
- Only apply this product when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non target crops) is minimal (e.g. when wind is 15 km/h or less and is blowing away from sensitive areas).

BUFFER ZONES

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Buffer Zones (metres) Required for the Protection of:		
	Freshwater Habitat of Depths:		Terrestrial Habitat
	Less than 1 m	Greater than 1 m	
Field sprayer	1	0	1

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

9.4 ROTATIONAL CROPS

Only the following crops have been field tested to indicate they may be safely planted at the prescribed interval after an application of AE1162464 WG 63 Herbicide. To avoid the possibility of injury to subsequent crops after an application of the recommended rate of AE1162464 WG 63 Herbicide, follow the crops and replanting interval which appear on this label, and if tank mixing on the label of the tank mix partner, and always observe the most restrictive replanting interval.

Immediate plant back*	4 months	10 months	22 months
Field Corn	Winter Wheat	Alfalfa Canola Dry Bean Field Corn Field Peas Oats Soybean Spring Barley Spring Wheat	Potato Sugarbeet Tomato

* In the event that corn crop treated with AE1162464 WG 63 Herbicide is lost due to environmental conditions and re-seeding is required, field corn may be reseeded immediately.

SECTION 10: PRE-HARVEST-, PRE-GRAZING/FEEDING, RE- ENTRY INTERVALS

- DO NOT graze the treated crops or cut for forage (silage) within 45 days of application.
- DO NOT harvest grain or stover within 89 days of application.
- DO NOT re-enter treated fields within 12 hours of application.

SECTION 11: MIXING INSTRUCTIONS

AE1162464 WG 63 Herbicide must be applied with clean and properly calibrated equipment. Prior to adding AE1162464 WG 63 Herbicide, ensure that the spray tank, filters and nozzles have been thoroughly cleaned and that agitation system is properly working.

1. Fill spray tank with 25 - 50% of the required volume of water, and begin agitation.
2. Add the appropriate amount of AE1162464 WG 63 Herbicide slowly to the spray tank or mixing system and ensure complete dispersion. Maintain and ensure thorough dispersion and sufficient agitation during both mixing and spraying.
3. Add the adjuvant.
4. Add nitrogen fertilizer.
5. Fill the spray tank with balance of water needed.

Proper agitation should be maintained within the tank to keep the product dispersed.

Apply AE1162464 WG 63 Herbicide spray mixtures within 24 hours of mixing to avoid product degradation.

SECTION 12: SPRAYER CLEANUP

Before and after using AE1162464 WG 63 Herbicide always complete a thorough cleaning of the spray tank, lines and filters. The following procedures are recommended:

1. Flush tank, hoses, boom and nozzles with clean water.
2. Prepare a cleaning solution of 1 gal of household ammonia per 25 gallons of water. Many commercial spray tank cleaners may be used.
3. Use a pressure washer to clean the inside of the spray tank with this solution. Take care to wash all parts of the tank, including the inside top surface. If a pressure washer is not available, completely fill the sprayer with the cleaning solution to ensure contact of the cleaning solution with all internal surfaces of the tank and plumbing. Start agitation in the sprayer and thoroughly recirculate the cleaning solution for at least 15 minutes. All visible deposits must be removed from the spraying system.
4. Flush hoses, spray lines, and nozzles for at least 1 minute with the cleaning solution.
5. Dispose of rinsate from steps 1-3 in accordance with provincial regulations. Repeat steps 2-5.
6. Remove nozzles, screens and strainers and clean separately in the ammonia solution after completing the above procedures.
7. Rinse the complete spraying system with clean water.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

SECTION 13: RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, AE1162464 WG 63 Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to AE1162464 WG 63 Herbicide and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

1. Where possible, rotate the use of AE1162464 WG 63 Herbicide or other Group 2 herbicides with different herbicide groups that control the same weeds in a field.
2. Use tank mixtures with herbicides from a different group when such use is permitted.
3. Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
4. Monitor treated weed populations for resistance development.
5. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
6. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
7. For further information or to report suspected resistance contact Bayer CropScience Inc. via internet at www.bayercropscience.ca or telephone at 1-888-283-6847.

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