Group	27	Herbicide

IMPACT®

Herbicide

For postemergence weed control in all types of field corn, popcorn, sweet corn and between crop applications.

Active Ingredient:

Topramezone [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl) phenyl] (5-hydroxy-1-methyl-1*H*-pyrazol-4-yl) methanone	29.7%
Inert Ingredients:	70.3%
Total:	100.0%

(1 gallon contains 2.8 pounds of TOPRAMEZONE free acid)

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail).

FIRST AID	
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed:	• Call a poison control center 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 center or doctor. • Do not give anything to an unconscious person.
If on skin or clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor for treatment advice.

EMERGENCY INFORMATION

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

For Medical Emergencies phone:.....1-888-681-4261
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC®.....1-800-424-9300
For Product Use Information phone: AMVAC®.....1-888-462-6822

See back panel for additional Precautionary Statements.

EPA Reg. No. 5481-524
EPA Est. No.

Net Contents:
As marked on Container

AMVAC®
4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A.
1-888-462-6822

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, polyethylene, Viton ≥ 14 mils, rubber ≥ 14 mils or polyvinyl chloride ≥ 14 mils.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands 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.

Environmental Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Environmental Hazards

DO NOT apply directly to water, or areas where surface water is present, or to inter-tidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment wash water. DO NOT apply this product through any type of irrigation system.

Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical resistant gloves Category A
- Shoes plus socks

All applicable directions, restrictions, precautions and Limited Warranty and Disclaimer are to be followed. This labeling must be in the user's possession during application.

I. INFORMATION

IMPACT is a systemic postemergence herbicide for selective control or growth suppression of emerged broadleaf and grass weeds in field corn (grown for grain, silage or seed), popcorn (grown for ear, kernel or seed) and sweet corn (grown for ear, kernel or seed), and between crop applications. This product may be used on conventional and herbicide resistant/tolerant corn hybrids. AMVAC has not tested all inbred lines of corn for tolerance to **IMPACT**. Before using **IMPACT**, refer to seed company recommendations for use on inbred lines of field corn, popcorn and sweet corn.

When applied postemergence broadcast to weeds as directed, **IMPACT** will control or suppress the broadleaf weeds listed in Table 1 and the grass weeds listed in Table 2.

IMPACT may be tank-mixed with other herbicides to provide both broader spectrum and residual weed control. Refer to Tank Mixes in the Crop Use Directions (Section VII). It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and the precautionary statements of each product in the tank mixture.

IMPACT applications must also include recommended spray additives. Refer to Additives and Mixing Order (Sections III and IV).

Table 1. Broadleaf Weeds Controlled or Suppressed with IMPACT applied Postemergence
(Including ALS-Resistant [Group 2][1], Glyphosate-Resistant [Group 9] and Triazine-Resistant [Group 5] Biotypes)

Annual Broadleaf Weeds[2]	IMPACT 0.75 to 1.0 fl. oz. per acre Maximum Weed Size (Inches)[3]	Annual Broadleaf Weeds[2]	IMPACT 0.75 to 1.0 fl. oz. per acre Maximum Weed Size (Inches)[3]
Amaranth, Palmer	6[4]	Nightshade, Hairy	6
Amaranth, Powell	6	Pigweed, Prostrate	6
Burcucumber	6	Pigweed , Redroot	6
Canola, Volunteer	6	Pigweed, Smooth	6
Carpetweed	6	Pigweed, Tumble	4
Chickweed, Common	4	Prickly Lettuce	4
Cocklebur, Common	8	Pusley, Florida	3
Dandelion	6[5]	Ragweed, Common	6
Galinsoga, Hairy	6	Ragweed, Giant	8[4]
Henbit	4	Shepherd's-purse	4
Jimsonweed	6	Sida, Prickly	3
Kochia	6[4]	Smartweed, Ladysthumb	3
Lambsquarters, Common	6	Smartweed, Pennsylvania	3
Mallow, Common	3	Sunflower, Volunteer	8[4]
Mallow, Venice	3[5]	Sunflower, Wild (Common)	8[4]
Marestail (Horseweed)	6[4]	Thistle, Canada	6[5]
Morningglories	6[5]	Thistle, Russian	4
Mustards	6	Velvetleaf	8[4]
Nightshade, Black	6	Waterhemp, Common	6[4]
Nightshade, Eastern Black	6	Waterhemp, Tall	6[4]

[1]ALS (acetolactate synthase) resistant weeds include those weeds resistant to the sulfonylurea, imidazolinone, or sulfonamide families of herbicides.
[2]Refer to Section IX for a list of scientific names.
[3]For best performance, apply before weeds exceed the maximum stem size or vine length listed in this table.
[4]A rate of 1.0 fl. oz. per acre is recommended if maximum weed size is reached.
[5]Indicates growth suppression.

Table 2. Annual Grass Weeds Controlled or Suppressed with IMPACT Applied Postemergence
(Including ALS-Resistant [Group 2][1] Biotypes)

Annual Grass Weeds[2]	IMPACT 0.75 fl. oz. per acre		IMPACT 1.0 fl. oz. per acre	
	Maximum Weed Size (Inches)[3]	Rating[4]	Maximum Weed Size (Inches)[3]	Rating[4]
Barnyardgrass	4	C	5	C
Crabgrass, Large	3	C	4	C
Crabgrass, Smooth	3	C	4	C
Cupgrass, Woolly	3	PC	3	C
Foxtail, Giant	4	C	5	C
Foxtail, Green	3	C	4	C
Foxtail, Yellow	3	PC	3	C
Goosegrass	3	C	4	C
Johnsongrass, Seedling	4	PC	4	C
Millet, Wild-Proso	3	C	4	C
Panicum, Fall	3	PC	3	C
Panicum, Texas	3	PC	3	PC
Shattercane	4	PC	4	PC
Signalgrass, Broadleaf	3	PC	3	C

[1]ALS (acetolactate synthase) resistant weeds include those weeds resistant to the sulfonylurea, imidazolinone, or sulfonamide families of herbicides.
[2]Refer to Section IX for a list of scientific names.
[3]For best performance, apply before grasses exceed the maximum size listed in this table.
[4]Rating: C=Control; PC=Partial Control. The addition of atrazine at minimum of 0.5 pound per acre tank-mixed with IMPACT is recommended for best performance on grasses.

Mode of Action
IMPACT is absorbed by leaves, roots, and shoots and translocated to the growing points of sensitive weeds to provide control of emerged weeds. **IMPACT** controls weeds by inhibiting carotenoid biosynthesis (HPPD inhibitor GROUP 27). Temperatures and moisture conditions for active plant growth are important for optimum **IMPACT** activity. **IMPACT** applications to weeds during periods of stress conditions such as cold temperatures and/or drought can result in reduced performance.

Herbicide Resistance
Repeated applications of any single mode of action in a weed management plan increases the probability of selecting for naturally occurring biotypes* with less susceptibility to herbicides using that mode of action. **IMPACT** is a Group 27 herbicide and should be tank mixed with an herbicide having a different effective mode of action and/or be used in a rotation with herbicides having a different effective mode of action to best control the weed species in question and minimize the selection for Group 27 herbicide resistance. In addition, efforts should be made to include non-herbicide tactics to develop a more diverse and effective weed management program.
*A weed biotype is a naturally occurring individual within a given species that has a slightly different, but distinct genetic makeup from other plants.

Best Management and Stewardship Practices
It is critical to adopt a diversified weed management system in order to provide the best stewardship to **IMPACT** and to ensure consistent weed control and to best protect potential crop yield. Best management practices that diversify weed management include using herbicide treatments with multiple modes of action that are effective

on target weeds. The effective herbicides can be used in rotation or in combination, and should be used at the highest rate labeled. Herbicide best management practices should be augmented with cultural (e.g., crop rotation) and mechanical (e.g., tillage) tactics. Effort should be expended to keep escaped weeds from contributing seeds to the soil weed seed bank. Scouting soon after herbicide application is an important strategy to identify weed population shifts or herbicide resistant biotypes before the problems become more difficult to manage. Take precautions to keep equipment free of weed seeds when moving from field to field. This is extremely important if fields are custom harvested. By adopting best management practices and providing stewardship to protect against the evolution of herbicide resistant weeds, crop yield potential is higher and thus economic returns are greater.

Crop Tolerance

IMPACT should be applied during favorable growing conditions for optimum crop tolerance and weed control. Crops under environmental stress are more likely to show injury from any herbicide application. Rarely, plants under environmental stress conditions and treated with **IMPACT** may show some transient bleaching of the portion of the leaves intercepting the spray application. These symptoms are temporary and occur rarely, and crop growth is not affected.

Cultivation

Avoid disturbing (e.g., cultivation) treated areas for at least 7 days following an application of **IMPACT** to allow maximum possible herbicide uptake, translocation, and weed control. If cultivation is part of a diverse weed management program, it is important to avoid deep cultivation that will move dormant weed seeds into the soil zone where germination is likely.

Insecticide Information

IMPACT may be used sequentially or in combination with soil or foliar applied insecticides registered for use in corn.

Cleaning Spray Equipment

To avoid injury to sensitive crops, drain and clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions. Equipment should be cleaned and triple rinsed before and after applying this product.

II. APPLICATION INSTRUCTIONS

IMPACT is effective for postemergence control of many annual weeds in conservation and conventional-tillage crop production systems.

Do not apply **IMPACT** within 30 feet of native plant community.

The applicator is responsible for any loss or damage that results from spraying **IMPACT** in a manner other than recommended in this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regards to spraying.

IMPACT Application Rate and Timing:

- **IMPACT** may be applied up to a total of 1.0 fluid ounce (0.022 pounds active ingredient) per treated acre per growing season.
- **IMPACT** can be applied postemergence up to 45 days prior to corn harvest.
- Apply **IMPACT** as a postemergence treatment when weeds are actively growing.
- For optimal weed control apply **IMPACT** before weeds exceed labeled maximum size.
- **IMPACT** should be applied a minimum of one hour before rainfall or overhead irrigation.

Spray Coverage
Weeds must be thoroughly covered with spray droplets to achieve consistent control of emerged weeds. Dense leaf canopies will shelter small weeds and can prevent adequate spray coverage on these weeds resulting in poor overall weed control.

Ground Application Methods and Equipment
Uniformly apply **IMPACT** with properly calibrated ground equipment in 10 or more gallons of water per acre. Use higher water volumes when treating larger weeds and/or dense weed infestations. Select nozzle types, spray pressure, and carrier volume that deliver droplets which will thoroughly cover target weeds. **IMPACT** applications can be made with drop nozzles if the crop canopy prevents adequate weed coverage using broadcast applications methods.

Spray Drift
Do not apply when weather conditions favor spray drift to adjacent crops and vegetation; injury to sensitive plant species can occur if contacted by drift. To avoid spray drift from treated areas, do not make applications when wind speeds exceed 10 mph or during periods of temperature inversions.

Use of nozzles that are designed to provide larger droplet sizes will reduce spray drift potential. Agriculturally approved drift-reducing additives may also be used with **IMPACT** in accordance with the product labels.

Aerial Application Methods and Equipment
Uniformly apply with properly calibrated aerial equipment in 3 or more gallons of water per acre. Adequate spray volume must be used to provide accurate and uniform distribution of spray particles over the treated area and to avoid drift of spray particles to non-target areas.

To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS.
- Nozzle height above ground must be a maximum of 10 feet.
- Nozzles must be pointed towards the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.
- To minimize wing-tip vortex roll, nozzles or spray boom must not be located any closer to end of wing or rotor than three-fourths the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- A buffer zone must be established between the area to be sprayed and sensitive crops.
- DO NOT spray when wind velocity is greater than 5 mph or during periods of temperature inversions. Coarse sprays (larger droplets) are less likely to drift.

III. ADDITIVES

Postemergence applications of **IMPACT** require the addition of an adjuvant **and** a nitrogen fertilizer source to achieve optimum weed control.

1. ADJUVANTS: Unless specific recommendations are given in Section VII. Crop Use Directions -Tank Mixes, always use either a methylated seed oil (MSO) or a crop oil concentrate (COC) containing at least 14% emulsifiers and 80% oil with **IMPACT**. For best performance across a wide range of environmental conditions such as when weeds are under moisture and/or temperature stress, the use of an MSO-based adjuvant is recommended. Apply oil-based adjuvant concentrates at the rates of 1.0 to 1.5 gallons per 100 gallons of water (1.0% to 1.5% v/v). Use the higher rate when making an application during periods of hot dry weather and to larger weeds.

AND

2. NITROGEN FERTILIZER SOURCE: Recommended nitrogen based fertilizers include urea ammonium nitrate (UAN; 28-34%) or ammonium phosphate (10-34-0) at 1.25 to 2.5 gallons per hundred gallons of water (1.25% to 2.5% v/v). Instead of a liquid fertilizer, spray grade ammonium sulfate (AMS) at 8.5 to 17 pounds per 100 gallons of water (or an equivalent liquid AMS product) may be used. Use the higher rate when making application during periods of hot dry weather and to larger weeds.

IV. MIXING ORDER

Following are mixing order guidelines for **IMPACT** when mixing either alone or with other components, including spray adjuvants:

WATER:

1. Fill the spray tank ½ to ¾ full with clean water.
2. Add the required amount of **IMPACT** to the spray tank while agitating.
3. After **IMPACT** has visibly dispersed, continue agitation and add spray additives while filling the remainder of the tank with water.

TANK-MIX PREPARATION:

When tank-mixing **IMPACT** with recommended herbicides, add the other herbicides and other components in the following order, all while agitating:

1. Fill spray tank ½ to ¾ full with clean water.
2. Add soluble packet products and thoroughly mix.
3. Add **IMPACT** and thoroughly mix.
4. Add WP (wettable powder), DG (dispersible granule), DF (dry flowable), or F (liquid flowable) formulations.
5. Add EC (emulsifiable concentrate) products.
6. Add spray adjuvants to the spray tank.
7. Fill the remainder of the tank with water.

V. TANK MIX INFORMATION

IMPACT is recommended to be used sequentially or tank mixed with other herbicides as part of a complete weed control program. Tank mix recommendations are for use only in states where the sequential or tank mix product and application site is registered. Refer to Crop Use Directions (Section VII) for more details and for specific tank mix restrictions. Read and follow the applicable Restrictions and Limitations (Section VI) and Directions for Use on all products included in any tank mix. The most restrictive labeling applies to tank mixes. Liquid fertilizer as a carrier for postemergence applications of **IMPACT** is not recommended. Use only water as a carrier.

VI. RESTRICTIONS AND LIMITATIONS

- Maximum seasonal use rate: No more than 1.0 fluid ounce per acre (0.022 lbs. ai/acre) of **IMPACT** may be applied during the growing season.
- DO NOT apply **IMPACT** within 45 days of corn harvest (fresh market sweet corn, silage, fodder, or grain).
- DO NOT graze or feed treated corn forage, silage, fodder, or grain for at least 45 days after an application of **IMPACT**.

Table 3. ROTATIONAL CROP RESTRICTIONS

The following rotational crops may be planted after uniformly applying **IMPACT** at the application rates in corn shown in the chart below. Do not plant earlier than the specified interval at the rates shown in the chart below, as crop injury could occur. Avoid over-applications by minimizing overlaps of spray swaths and by switching off spray boom when turning (end rows). In the event of a crop loss due to weather or other causes, any corn type can be replanted at any time following an application of **IMPACT** herbicide. If **IMPACT** was tank-mixed with other herbicides, the label replanting restrictions for these herbicides must also be followed.

Rotational Crop	Rotational Interval (Months) **IMPACT** Application Rate (fl. oz. per acre)		
	0.5	0.75	1.0
Corn, sweet corn and popcorn (all types)	Immediate	Immediate	Immediate
Cereal grains (wheat, barley, oats, rye)	3	3	3
Grass, grown for seed and forage	3	3	3
Rice	3	3	3
Alfalfa	9	9	9
Cotton	9	9	9
Peanut	9	9	9
Potato	9	9	9
Sorghum	9	9	9
Soybean	9	9	9
Sunflower	9	9	9
Canola	9	9	18
Dry Bean (excluding cranberry bean)	9	9[1]	18[2]
Flax	9	9	18
Green Bean (including seed production)	9[3]	9[3,4]	18[5]
Pea	9	9	18[2]
Sugar beet	9[4]	9[4]	18[2]
All Other Crops	18	18	18

[1] 18 month interval in MI, MN, MT, ND, SD, WI, and WY.

[2] 9 month interval in ID, OR, and WA.

[3] 18 month interval in ID, UT, and in area East of Cascade Mountains in OR and WA.

[4] 18 month interval in CO, MI, MN, MT, NE (Panhandle counties), ND, SD, WI, and WY.

[5] 9 month interval in area West of Cascade Mountains in OR and WA.

VII. CROP USE DIRECTIONS

CORN (Field, Pop, Seed and Sweet)

IMPACT can be selectively applied postemergence on all corn types including conventional, Clearfield®, Roundup Ready®, and LibertyLink® hybrids. In addition, **IMPACT** may be applied on inbred lines used in field corn, popcorn and sweet corn seed production. Refer to seed company recommendations before application of **IMPACT** on inbred lines.

IMPACT may be used in tank mixtures or sequential applications with other products that are registered for use in corn. If **IMPACT** is tank mixed with other herbicides, follow the label restrictions for the most restrictive of the tank mix products.

For best performance it is recommended that **IMPACT** be tank mixed with 0.25 to 1.5 pounds active ingredient of atrazine herbicide per acre. Use lower rates of atrazine to provide enhanced burndown of emerged weeds and higher rates for both enhanced burndown and additional soil residual control.

Tank Mixes

When applied postemergence at 0.75 to 1.0 fluid ounce per acre, IMPACT may be tank-mixed with one or more of, but not limited to, the following corn herbicides:

2,4-D[1]	Cadet®	Harness®	Resolve® Q
Aim®	Cinch® brands	Harness® Xtra	Resource®
Anthem™ brands	Clarity®[1]	Hornet®	Status®
Atrazine	Degree®	Keystone®	Stinger®
Basagran®	Degree Xtra®	Keystone® LA	Surpass®
Bicep II Magnum™	Dual II Magnum®	Marksman®[1]	TopNotch®
Bicep Lite II Magnum®	FulTime®	Outlook®	Warrant®
Breakfree® brands	G-Max® Lite™	Prowl® H20	Zidua®
Buctril®	Guardsman Max®	Require® Q (mp)	

When applied postemergence at 0.5 to 0.75 fluid ounce per acre, IMPACT may be tank-mixed with the following corn herbicides[2]:

Accent®	Liberty®	Roundup PowerMAX®	Steadfast® Q
Accent® Q	Lightning®	Roundup WeatherMAX®	Stout®
Glyphosate	Option®	Steadfast®	Touchdown® brands

[1] Use of methylated seed oil (MSO) or crop oil concentrate (COC) in tank mixes of **IMPACT** plus 2,4-D containing products, Clarity, or Marksman may result in crop injury if applied during periods of cold, wet weather or hot and/or humid weather. Under these environmental conditions the use of a nonionic surfactant in place of an oil based adjuvant is recommended.

[2] **IMPACT** may be applied at a reduced rate of 0.5 to 0.75 fluid ounces per acre to provide additional control of emerged broadleaf weeds when used in tank mixes with the above listed postemergence herbicides. For corn up to 12 inches tall, atrazine may be added to these herbicide mixes. If weed species are known to be tolerant or resistant to the tank mix partner product, use a higher rate of **IMPACT**. For best performance on targeted broadleaf weeds, do not exceed the maximum labeled weed size found in Table 1 under Information. When tank mixed with these products, use spray additives as recommended on the labels of the companion herbicides.

VIII. BETWEEN CROP APPLICATION

Fallow Weed Management
IMPACT may be used as a foliar application to control emerged broadleaf and grass weeds at any time of the year during the period following crop harvest and before the following crop is planted. The following crop may be planted after observing the required interval as defined in the Rotational Crop Restrictions section (Table 3). Cover crops planted to manage soil erosion, soil fertility, soil moisture, or for other purposes have shown tolerance to IMPACT and may be planted a minimum of 28 days following between-crop applications. Consult AMVAC representatives or university extension personnel for information on tolerance of specific cover crops.
Application Rate and Timing
Apply IMPACT as a broadcast spray at 0.5 fl oz/A to 1.0 fl oz/A. Best product performance is obtained when weeds are small and actively growing. Thorough coverage of existing weeds is essential, and higher spray volume may be needed for best performance. Sequential application may be made with a minimum of 14 days between applications, but DO NOT exceed the maximum cumulative (both corn and between crop application uses) amount of 1.0 fl oz/A of Topramezone per year.

IX. SEQUENTIAL HERBICIDE COMBINATIONS AND USES

In addition to the control of many emerged broadleaf weeds, **IMPACT** controls or suppresses the growth of several emerged grass weed species. To target a broader spectrum of annual grasses, **IMPACT** should be used as a sequential postemergence treatment following a preemergence grass herbicide (Group 15 or Group 3) such as Outlook®, Prowl® H_2O, Dual II Magnum®, Harness®, or Zidua®. **IMPACT** can also be used in sequential programs with registered burn-down herbicides.

When **IMPACT** is used in sequential applications following other products containing Group 27 herbicides such as isoxaflutole (e.g., Corvus®, Balance® Flexx), mesotrione (e.g., Callisto®, Lexar®, Lumax®), or tembotrione (e.g., Laudis®, Capreno®) use of a tank mix partner with a different effective mode of action is recommended at full use rates to reduce risk of selection for HPPD resistant weed biotypes.

X. SCIENTIFIC NAMES OF WEEDS SPECIFIED IN THIS LABEL

Common Name	Scientific Name	Common Name	Scientific Name
Amaranth, Palmer	*Amaranthus palmeri*	Nightshade, Eastern Black	*Solanum ptycanthum*
Amaranth, Powell	*Amaranthus powellii*	Nightshade, Hairy	*Solanum sarrachoides*
Barnyardgrass	*Echinochloa crus-galli*	Panicum, Fall	*Panicum dichotomiflorum*
Burcucumber	*Sicyos angulatus*	Panicum, Texas	*Panicum texanum*
Canola, Volunteer	*Brassica* spp.	Pigweed, Prostrate	*Amaranthus blitoides*
Carpetweed	*Mollugo verticillata*	Pigweed, Redroot	*Amaranthus retroflexus*
Chickweed, Common	*Stellaria media*	Pigweed, Smooth	*Amaranthus hybridus*
Crabgrass, Large	*Digitaria sanguinalis*	Pigweed, Tumble	*Amaranthus album*
Crabgrass, Smooth	*Digitaria ischaemum*	Prickly Lettuce	*Lactuca serriola*
Cocklebur, Common	*Xanthium strumarium*	Pusley, Florida	*Richardia scabra*

Common Name	Scientific Name	Common Name	Scientific Name
Cupgrass, Woolly	*Eriochloa villosa*	Ragweed, Common	*Ambrosia artemisiifolia*
Dandelion	*Taraxacum officinale*	Ragweed, Giant	*Ambrosia trifida*
Foxtail, Giant	*Setaria faberi*	Shattercane	*Sorghum bicolor*
Foxtail, Green	*Setaria viridis*	Shepherd's-purse	*Capsella bursa-pastoris*
Foxtail, Yellow	*Setaria glauca*	Sida, Prickly	*Sida spinosa*
Galinsoga, Hairy	*Galinsoga ciliata*	Signalgrass, Broadleaf	*Brachiaria platyphylla*
Goosegrass	*Eleusine indica*	Smartweed, Pennsylvania	*Polygonum pensylvanicum*
Henbit	*Lamium amplexicaule*	Smartweed, Ladysthumb	*Polygonum persicaria*
Jimsonweed	*Datura stramonium*	Sunflower, Volunteer	*Helianthus* spp.
Johnsongrass	*Sorghum halepense*	Sunflower, Wild (common)	*Helianthus annuus*
Kochia	*Kochia scoparia*	Thistle, Canada	*Cirsium arvense*
Lambsquarters, Common	*Chenopodium album*	Thistle, Russian	*Salsola iberica*
Mallow, Common	*Malva neglecta*	Velvetleaf	*Abutilon theophrasti*
Mallow, Venice	*Hibiscus trionum*	Waterhemp, Common	*Amaranthus rudis*
Marestail (Horseweed)	*Conyza canadensis*	Waterhemp, Tall	*Amaranthus tuberculatus*
Millet, Wild-Proso	*Panicum miliaceum*		
Morningglory	*Ipomoea* spp.		
Mustard	*Brassica* spp.		
Nightshade, Black	*Solanum nigrum*		

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal, or cleaning of equipment. Open dumping is Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store product in original container only. Store product in a cool, dry place. Do not store this product under wet conditions. If this product has been stored where freezing temperatures have occurred, agitate or mix contents of container well before use. Avoid cross-contamination with other pesticides.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank and store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

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SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

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