

5481-524

8/12/2011

1/14



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Joy Paff
Amvac Chemical Corporation
4695 MacArthur Court, Suite 1250
Newport Beach, CA 92660

AUG 12 2011

Subject: Notifications per PR Notice 2007-4
Topramezone SC and ABN Impact Herbicide
EPA Reg. No. 5481-524
Application dated July 21, 2011; revised 8570-1 form dated August 8, 2011

Dear Ms. Paff:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 of the subject products. The Registration Division (RD) has conducted a review of these requests for their applicability under PRN 2007-4 and finds that the actions requested fall within the scope of PRN 2007-4. The labels submitted with the applications have been date-stamped "Notification" and will be placed in our records.

If you have any questions, please contact Hope Johnson at 703-305-5410.

Sincerely,

MICHAEL WALSH

Kathryn Montague
Product Manger 23
Herbicide Branch
Registration Division (7505P)

for

2/14

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide - Section I

1. Company/Product Number 5481-524	2. EPA Product Manager Kathryn V. Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Impact	PM# 23	
5. Name and Address of Applicant (Include Zip Code) Amvac Chemical Corporation 4695 MacArthur Court, Suite 1250 Newport Beach, CA 92660 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. --- Product Name ---

Section - II


<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> " Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below	<input type="checkbox"/> Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.)
 Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No * Certification must be submitted	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wt. No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wt. No. per container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input checked="" type="checkbox"/> Other (Specify) _____
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 30 ounces	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithographed <input checked="" type="checkbox"/> Paper glued		<input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Joy Paff	Title Regulatory Assistant	Telephone No. (Include Area Code) 949-221-6108
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		8. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Assistant	
4. Typed Name Joy Paff	5. Date August 8, 2011	

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 listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves Category A
- 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.

STORAGE AND DISPOSAL

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 1/4 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. ~~Do not reuse container.~~

In Case of Emergency

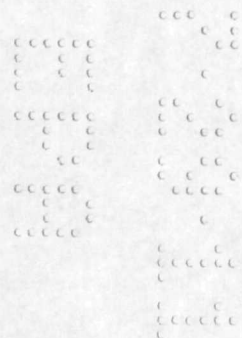
In case of large-scale spillage regarding this product, call:

CHEMTREC 1-800-424-9300

AMVAC 1-323-264-3910

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- AMVAC 1-323-264-3910



I. Information

TOPRAMEZONE SC is a systemic postemergence herbicide for 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). This product may be used on conventional and herbicide resistant/tolerant corn hybrids. AMVAC has not tested all inbred lines for tolerance to **TOPRAMEZONE SC**. Before using **TOPRAMEZONE SC** refer to seed company recommendations for use on inbred lines of field corn, popcorn and sweet corn.

When applied as directed at the postemergence broadcast rate of 0.75 fluid ounce per acre, **TOPRAMEZONE SC** will control or suppress the broadleaf weeds listed in Table 1 and the grass weeds listed in Table 2.

For best performance it is recommended that **TOPRAMEZONE SC** be tank mixed with 0.25 to 1.5 pounds active ingredient of atrazine herbicide per acre. Use lower rates of atrazine to provide added burndown of emerged weeds and higher rates for added soil residual control. Also **TOPRAMEZONE SC** applications must include spray additives (See section III and IV of this label for details).

Table 1. Broadleaf Weed List, Including ALS¹, Glyphosate and Triazine-Resistant Biotypes
(Apply at the postemergence broadcast rate of 0.75 fluid ounce per acre.)

Annual Broadleaf Weeds	Maximum Size (Inches) ²	
Amaranth, Palmer	6	
Amaranth, Powell	6	
Burcucumber	6	
Carpetweed	6	
Chickweed, Common	4	
Cocklebur, Common	8	
Dandelion	6 ³	
Galinsoga, Hairy	6	
Henbit	4	
Horseweed (Marestail)	6	
Jimsonweed	6	
Kochia	6	
Lambsquarters, Common	6	
Mallow, Common	3	
Mallow, Venice	3 ³	
Morningglory sp.	6 ³	
Mustard sp.	6	cccccc cc
Nightshade, Black	6	c c c c
Nightshade, Eastern Black	6	cccccc cc c
Nightshade, Hairy	6	c c c c
Pigweed, Prostrate	6	cccccc cccc
Pigweed, Redroot	6	c c
Pigweed, Smooth	6	cccccc
Pigweed, Tumble	4	c c
Prickly Lettuce	4	cccccc
Pusley, Florida	3	
Ragweed, Common	6	

Ragweed, Giant	8
Shepardspurse	4
Sida, Prickly	3
Smartweed, Ladysthumb	3
Smartweed, Pennsylvania	3
Sunflower, Volunteer	8
Sunflower, Wild (common)	8
Thistle, Canada	³ 6
Thistle, Russian	4
Velvetleaf	8
Waterhemp, Common	6
Waterhemp, Tall	6

¹ ALS (acetolactate synthase) resistant weeds include those weeds resistant to the sulfonylurea (e.g., **Spirit**[®] and **Exceed**[®]), imidazolinone (e.g., **Lightning**[®]), or sulfonamide (e.g., **Python**[®]) family of herbicides.

² For best performance spray before weeds exceed the maximum stem height or vine length listed in this table.

³ Growth suppression.

**Table 2. Annual Grass Weed List, Including ALS¹-Resistant Biotypes
(Apply at the postemergence broadcast rate of 0.75 fluid ounce per acre.)**

Annual Grass Weeds	Maximum Leaf Stage ²	Maximum Size (Inches) ²
Barnyardgrass	4	4
Crabgrass, Large	4	3
Crabgrass, Smooth	4	3
Cupgrass, Woolly	3 ³	3 ³
Foxtail, Giant	4	4
Foxtail, Green	3	3
Foxtail, Yellow	3 ³	3 ³
Goosegrass	4	3
Johnsongrass, Seedling	3 ³	4 ³
Millet, Wild-Proso	3	3
Panicum, Fall	3 ³	3 ³
Panicum, Texas	3 ³	3 ³
Shattercane	3 ³	4 ³
Signalgrass, Broadleaf	3 ³	3 ³

¹ ALS-resistant weeds include those weeds resistant to the sulfonylurea (e.g., **Accent**[®] and **Option**[®]) family of herbicides.

² For best performance spray before grasses exceed the maximum leaf stage and/or height listed in this table.

³ Growth suppression.

Mode of Action

TOPRAMEZONE SC is absorbed by leaves, roots, and shoots and translocated to the growing points of sensitive weeds to provide control of emerged weeds. **TOPRAMEZONE SC** controls weeds by inhibiting carotenoid biosynthesis (HPPD inhibitor). Temperatures and moisture conditions for active plant growth are important for

optimum **TOPRAMEZONE SC** activity. **TOPRAMEZONE SC** applications to weeds during periods of stress conditions such as cold temperatures and/or drought, may result in reduced performance.

Herbicide Resistance

No resistance to **TOPRAMEZONE SC** or cross-resistance to other HPPD inhibitor herbicides is known to exist. Repeated applications of a 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. Therefore, **TOPRAMEZONE SC** should be tank mixed with a herbicide having a different mode of action and/or be used in a rotation with herbicides having a different mode of action. Other HPPD inhibitor herbicides include **Balance**[®] (isoxaflutole) and **Callisto**[®] (mesotrione).

*A weed biotype is a naturally occurring individual within a given species that has a slightly different, but distinct genetic makeup from other plants.

Crop Tolerance

TOPRAMEZONE SC 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 these conditions treated with **TOPRAMEZONE SC** may show some transient bleaching of the portion of the leaves intercepting the spray application. These symptoms are temporary and occur infrequently; crop growth is not affected.

Cultivation

Avoid disturbing (e.g., cultivation) treated areas for at least 7 days following an application of **TOPRAMEZONE SC** to allow best herbicide uptake, translocation, and weed control.

Insecticide Information

TOPRAMEZONE SC 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 and then triple rinse the equipment before and after applying this product.

II. Application Instructions

TOPRAMEZONE SC is effective for postemergence control of annual weeds in conservation or conventional-tillage production systems.

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

The applicator is responsible for any loss or damage that results from spraying **TOPRAMEZONE SC** 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.

TOPRAMEZONE SC Application Rate and Timing:

- Do not exceed a total of 0.75 fluid ounce per treated acre per growing season.
- **TOPRAMEZONE SC** can be applied postemergence up to 45 days prior to corn harvest.
- Apply **TOPRAMEZONE SC** as a postemergence treatment to corn when weeds are actively growing.
- For optimal weed control apply **TOPRAMEZONE SC** before weeds exceed labeled height.
- **TOPRAMEZONE SC** should be applied a minimum of one hour before rainfall or overhead irrigation.

COVERAGE

Weeds must be thoroughly covered with spray. Dense leaf canopies shelter small weeds and can prevent adequate spray coverage.

TOPRAMEZONE SC applications should be made with drop nozzles if the crop canopy prevents adequate weed coverage.

Ground Application Methods and Equipment

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. Use higher water volumes treating larger weeds and/or high density weed infestation. Flat-fan nozzle tips are recommended for postemergence applications. A spray pressure of 20 to 40 psi is recommended.

Spray Drift

Do not apply when weather conditions may cause drift to adjacent crops and vegetation; injury may result if this occurs. 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 larger droplet sizes will reduce spray drift. Agriculturally approved drift-reducing additives may also be used.

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 **TOPRAMEZONE SC** require the addition of an adjuvant and a nitrogen fertilizer source to achieve optimum weed control.

I. 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), which contains at least 14% emulsifiers and 80% oil, with **TOPRAMEZONE SC**. For best performance across a wide range of environmental conditions, including when weeds are under moisture and/or temperature stress, use of an MSO adjuvant is recommended. Apply these 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

II. 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.

Agriculturally approved drift-reducing additives may be used in applications with **TOPRAMEZONE SC** .

IV. Mixing Order

Liquid fertilizer as a carrier for postemergence applications of **TOPRAMEZONE SC** herbicide is not recommended. Use only water as a carrier.

WATER:

1. Fill the spray tank 1/2 to 3/4 full with clean water.
2. Add the required amount of **TOPRAMEZONE SC** to the spray tank while agitating.
3. After the **TOPRAMEZONE SC** has visibly dispersed, add spray additives and fill the remainder of the tank with water.

TANK-MIX PREPARATION:

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

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

V. Tank Mix Information

TOPRAMEZONE SC 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 section VII. **Crop Use Directions** for more details and for specific tank mix restrictions. Read and follow the applicable **Restrictions and Limitations and Directions for Use** on all products included in any tank mix. **The most restrictive labeling applies to tank mixes.**

VI. Restrictions and Limitations

- No more than 0.75 fluid ounce per acre (0.0164 lbs ai/acre) of **TOPRAMEZONE SC** may be applied during the growing season.
- In the event of a crop loss due to weather, any corn type can be replanted following an application of **TOPRAMEZONE SC** herbicide. If **TOPRAMEZONE SC** was tank-mixed with other herbicides, the label restrictions for these herbicides must also be followed.
- DO NOT apply **TOPRAMEZONE SC** 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 **TOPRAMEZONE SC** .

ROTATIONAL CROPS GUIDELINE: The following rotational crops may be planted after applying **TOPRAMEZONE SC** herbicide at the recommended rate in corn. Planting earlier than the recommended interval

may result in crop injury. Avoid over applications by minimizing overlaps of spray swaths and by switching off spray boom when turning (end rows).

Minimum Time From Application to Planting	Crops
Anytime	All types of field corn, sweet corn and popcorn.
Three months	Cereal crops (wheat, barley, oats, and rye) and grass crops grown for seed production.
Nine months	Alfalfa, canola, cotton, flax, peanut, pea, potato, sorghum, soybean and sunflower.
Eighteen months	All other crops not listed in categories above.

VII. Crop Use Directions

**Corn
(Field, Pop, Seed, and Sweet)**

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

TOPRAMEZONE SC may be used in tank mixtures or sequential applications with other herbicides registered for use in corn. If TOPRAMEZONE SC is tank mixed with other herbicides, the label restrictions for the most restrictive of the tank mix products should be followed.

Tank Mixes

Recommended tank mixes for postemergence applications of TOPRAMEZONE SC when used at 0.75 fluid ounces per acre include:

- | | | |
|-----------------------------------|-----------------------------|-----------------------------|
| 2,4-D ¹ | Distinct ^{®1} | Permit [®] |
| Aim [®] | Dual II Magnum [®] | Prowl [®] H20 |
| Atrazine | G-Max Lite [™] | Require [™] Q (mp) |
| Basagran [®] | Guardman Max [®] | Resolve [™] Q (mp) |
| Bicep II Magnum [®] | Harness [®] | Resource [®] |
| Bicep Lite II Magnum [®] | Harness [®] Xtra | Status [®] |
| Buctril [®] | Hornet [®] | Stinger [®] |
| Cadet [™] | Keystone [®] | Surpass [®] |
| Cinch [®] | Keystone [®] LA | TopNotch [®] |
| Clarity ^{®1} | Laddok [®] | Tough [®] |
| Degree ^{™®} | Marksman ^{®1} | |
| Degree Xtra [®] | Outlook [®] | |

Recommended tank mixes for postemergence applications of TOPRAMEZONE SC when used at 0.5 to 0.75 fluid ounces per acre include²:

Accent®
 Accent® Q
 Glyphosate brands
 Ignite® 280³
 Liberty®

Lightning®
 Option®
 Roundup® brands
 Steadfast®
 Steadfast® Q

Stout™
 Touchdown® brands

¹ Use of methylated seed oil (MSO) or crop oil concentrate (COC) in tank mixes of **TOPRAMEZONE SC** plus 2,4-D, Clarity, Distinct, 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 **TOPRAMEZONE SC** may be applied at a reduced rate of 0.5 to 0.75 fluid ounce per acre to provide additional control of emerged broadleaf weeds when used in tank mixes with listed postemergence herbicides. For corn up to 12 inches tall atrazine may be added to these mixes. If weed species are tolerant or resistant to the tank mix partner product use the higher rate of **TOPRAMEZONE SC**. For best performance on targeted broadleaf weeds, do not exceed the maximum labeled weed height found in Table 1 under Information.

³ When tank mixed with these products use spray additives as recommended on these partners product labels.

Sequential Herbicide Combinations and Uses

In addition to the control of many emerged broadleaf weeds, **TOPRAMEZONE SC** controls or suppresses growth of several emerged grass weed species. To target a broader spectrum of grasses **TOPRAMEZONE SC** should be used as a sequential postemergence treatment following a preemergence grass herbicide such as **Outlook®**, **Prowl®**, **Guardman Max®**, **Dual II Magnum®**, **Harness®**, or **Surpass®**. **TOPRAMEZONE SC** may also be used in sequential programs with registered burn-down herbicides.

When **TOPRAMEZONE SC** is used in sequential applications following other products containing HPPD inhibitors such as isoxaflutole (e.g. Balance® Pro, Balance® Flexx, Epic®, Radius™) or mesotrione (e.g. Callisto®, Lexar®, Lumax®), use of a tank mix partner with a different mode of action is recommended to reduce risk of selection for HPPD resistant biotypes.

Pests listed in this label:	
Common Name	Scientific Name
Amaranth, Palmer	<i>Amaranthus palmeri</i>
Amaranth, Powell	<i>Amaranthus powellii</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Burcucumber	<i>Sicyos angulatus</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed, Common	<i>Stellaria media</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
Crabgrass, Smooth	<i>Digitaria ischaemum</i>
Cocklebur, Common	<i>Xanthium strumarium</i>
Cupgrass, Woolly	<i>Eriochloa villosa</i>
Dandelion	<i>Taraxacum officinale</i>
Foxtail, Giant	<i>Setaria faberi</i>
Foxtail, Green	<i>Setaria viridis</i>

Foxtail, Yellow	<i>Setaria glauca</i>
Galinsoga, Hairy	<i>Galinsoga ciliata</i>
Goosegrass	<i>Eleusine indica</i>
Henbit	<i>Lamium amplexicaule</i>
Horseweed (Marestail)	<i>Conyza Canadensis</i>
Jimsonweed	<i>Datura stramonium</i>
Johnsongrass	<i>Sorghum halepense</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Mallow, Common	<i>Malva neglecta</i>
Mallow, Venice	<i>Hibiscus trionum</i>
Millet, Wild-Proso	<i>Panicum miliaceum</i>
Morningglory	<i>Ipomoea sp.</i>
Mustard	<i>Brassica sp.</i>
Nightshade, Black	<i>Solanum nigrum</i>
Nightshade, Eastern Black	<i>Solanum ptycanthum</i>
Nightshade, Hairy	<i>Solanum sarrachoides</i>
Panicum, Fall	<i>Panicum dichotomiflorum</i>
Panicum, Texas	<i>Panicum texanum</i>
Pigweed, Prostrate	<i>Amaranthus blitoides</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Pigweed, Smooth	<i>Amaranthus hybridus</i>
Pigweed, Tumble	<i>Amaranthus album</i>
Prickly Lettuce	<i>Lactuca serriola</i>
Pusley, Florida	<i>Richardia scabra</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
Ragweed, Giant	<i>Ambrosia trifida</i>
Shattercane	<i>Sorghum bicolor</i>
Sida, Prickly	<i>Sida spinosa</i>
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Smartweed, Ladysthumb	<i>Polygonum persicaria</i>
Sunflower, Volunteer	<i>Helianthus sp.</i>
Sunflower, Wild (common)	<i>Helianthus annuus</i>
Thistle, Canada	<i>Cirsium arvense</i>
Thistle, Russian	<i>Salsola iberica</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Waterhemp, Common	<i>Amaranthus rudis</i>
Waterhemp, Tall	<i>Amaranthus tuberculatus</i>

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