9-327	12/4/2012		
WINTED STATED	US ENVIRON NTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave, NW Washington, D C 20460	EPA Reg Number 7969-327	Date of Issuance DEC - 4 2012
	NOTICE OF PESTICIDE	Term of Issuance C	onditional
	<u>x</u> Registration Reregistration	Name of Pesticide Pro	oduct
(under FIFRA, as amended)		Topramezone 2 8 SC Turfgrass Herbicide	
Note: Changes in la		ition must be submitted to	and accepted by the
you 1 Su A; 2 M a	broduct is conditionally registered in accordance with FIFI abmit and/or cite all data required for registration review/n gency requires all registrants of similar products to submit take the following label revision a Revise "EPA REG NO 7969-xxx" to "EPA REG N establishment number and net contents are also added to ibmit immunotoxicity study (OPPTS 870 7800) by April	reregistration of yo t data NO 7969-327 " As to the final printed	our product when the
	ubmit one (1) copy of the revised final printed label for the		
FIFRA sec 6(tions are not complied with, the registration will be subjected. (e) Your release for shipment of the product constitutes a of the label is enclosed for your records		
If you have any hartman emi	y questions regarding this notice, please contact Emily Ha	artman of my staff	at 703-347-0189 or
Signature of Approv	ung Official	Date	
Ant	Myn V. MONK		
Kathryn V Mo Project Manag Herbicide Bran	er 23	DEC	- 4 2012

27 Herbicide Group

Topramezone 2.8 SC turfgrass herbicide

For postemergence control of broadleaf and grass weeds in select turforass species on golf courses, sod farms and residential turforass

Other Ingredients Total.

EPA Reg. No 7969-xxx

EPA Est No KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

usted no entiende la eliqueta /busque a alguien para que se la explique a usted en stalle (if you do not understand the label, find someone to explain it to you in detail)

Inside for First Aid Precautionary Statements Directions For Use. wand Conditions of Sale and Warranty -

In case of an emergency endangering life or property involving this product. call day or night 1=800-832-HELP (4357).

Net Contents

ACCEPTED DEC - 4 2012 Under the Federal Insectedide, Pungielde, and ficturalities A as amonged, for the pesticit

internation PA Reg. No. 7969

BASF Corporation 26 Davis Drive Research Triangle Park NC 27709



FIRST AID				
If on skin or clothing	 Take off contamined clothing Rinse skin immediately with plenty of water for 15 to 20 minutes Call a poison control center or doctor for treatment advice 			
If swallowed	 Call a poison control center or doctor immediately for treatment advice Have a 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 by mouth to an unconscious person 			
lf ın eyes	 Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes Remove contact lenses if present after first 5 minutes then continue rinsing eyes Call a poison control center or doctor for treatment advice 			
	HOTLINE NUMBER			

Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact BASF Corporation for emergency medical treatment information at 1 800 832 HELP (4357)

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION Harmful if absorbed through skin Harmful if swallowed Causes moderate eye irritation Avoid contact with skin eyes or clothing Wear long sleeved shirt and long pants socks shoes and gloves Wear protective eyewear

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are listed below. If you want more options follow the instructions for **Category A** on an EPA chemical resistance category selection chart

Applicators and other handlers must wear

- Long-sleeved shirt and long pants
- Chemical resistant gloves Category A
- Shoes plus socks
- Goggles face shield or safety glasses

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate **DO NOT** reuse them Follow manufacturers instructions for cleaning and maintaining PPE. If no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry

USER SAFETY RECOMMENDATIONS

Users should

- Wash thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet
- · Remove and wash contamined clothing before reuse

Engineering Controls Statement

When handlers use closed systems enclosed cabs or arcraft 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 to areas where surface water is present or to intertidal areas below the mean high water mark **DO NOT** contaminate water when disposing of equipment washwaters or rinsate **DO NOT** apply this product through any type of irrigation system

This product is toxic to aquatic and terrestrial plants Minimize exposure to nontarget plants **DO NOT** apply when weather conditions favor drift from target areas

Product must be used in a manner that 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 per sons 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 per mitted 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

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170) The WPS applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses

DO NOT enter or allow people or pets to enter the treated area until sprays have dried

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

All applicable directions restrictions precautions and **Conditions of Sale and Warranty** 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

STORAGE AND DISPOSAL (continued)

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 the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance

Container Handling

Nonrefiliable Container DO NOT reuse or refill this container Triple rinse or pressure rinse container (or equivalent) promptly after emptying then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incin eration or by other procedures approved by state and local authorities

Triple rinse containers small enough to shake (capacity \leq 5 gallons) as follows Empty the remain ing 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 or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times

Triple rinse containers too large to shake (canacity > 5 gallons) as follows. Empty the l

(capacity > 5 gallons) as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times

Pressure rinse as follows Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 sec onds. Drain for 10 seconds after the flow begins to drip.

(continued)

In Case of Emergency

In case of large scale spillage regarding this product call

- CHEMTREC 1 800 424 9300
 BASF Corporation 1 800-832 HELP (4357)
- BASE Corporation 1 800-832 HELP (4357)

In case of medical emergency regarding this product call

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1 800 832-HELP (4357)

Steps to be taken in case material is released or spilled

- Dike and contain the spill with inert material (sand earth etc.) and transfer liquid and solid diking material to sepa rate containers for disposal
- Remove contaminated clothing and wash affected skin areas with soap and water
- Wash clothing before reuse
- Keep the spill out of all sewers and open bodies of water

Product Information

Topramezone 2 8 SC turfgrass herbicide may be

applied postemergence to residential (spot spray only) and nonresidential turfgrass including

- Airports
- Athletic fields
- Cemeteries
- Golf courses
- Grounds or lawns around residential and commercial establishments
- Houses of worship
- Military and other institutions
- Single/Multifamily dwellings
- Parks
- Picnic grounds
- Roadsides
- Schools
- Sod farms

Topramezone 2.8 SC is a broad-spectrum systemic postemergence herbicide for control or suppression of broadleaf and grass weeds in select turfgrass species

- Bluegrass Kentucky
- Centipedegrass
- Fescue fine
- Fescue tall
- Ryegrass perennial

When applied as directed **Topramezone 2.8 SC** will con trol or suppress the broadleaf and grass weeds listed in **Table 1** Applications of **Topramezone 2.8 SC** must include spray additives for acceptable weed control. See **Spray Mix Additives** for details

Mode of Action

Topramezone 2.8 SC is absorbed by leaves roots and shoots and is translocated to the growing points of susceptible weeds **Topramezone 2.8 SC** controls weeds by inhibiting carotenoid biosynthesis [HPPD inhibitor (**Group 27**)] Soon after application treated weeds turn white because of chlorophyll loss and growth stops Affected weeds then become necrotic and are controlled

Resistance Management

While weed resistance to HPPD inhibiting herbicides is relatively infrequent populations of resistant biotypes are known to exist Resistance management practices include

- Following labeled application rate and weed growth stage recommendations
- Avoid multiple repeat applications of herbicides with the same mode of action
- Using tank mixes and sequential applications with other effective herbicides possessing different modes of action

Use Information

Apply **Topramezone 28 SC** to actively growing weeds as a postemergence broadcast or spot spray in labeled turf grass species at the specified rate and growth stage in **Table 1** and **Table 2 DO NOT** exceed the labeled application rate or fail to comply with use specifications in **Restrictions and Limitations**

For best results weeds should be actively growing and not under stress from lack of water excessive water low fertil ity mowing shock excessive hot or cold temperatures or injury from other herbicide applications

To achieve consistent weed control a crop oil concentrate (COC) or methylated seed oil (MSO) adjuvant is required See **Table 1** and **Table 2** for rates

Turfgrass Tolerance

Apply **Topramezone 2.8 SC** during favorable growing conditions for optimum turfgrass tolerance and weed con trol Turfgrass under environmental stress is more likely to show injury such as transient bleaching from herbicide applications These symptoms are temporary and turfgrass vigor is not affected

Spot Applications

Postemergence spot applications of **Topramezone 2 8 SC** may be made to susceptible weeds in tolerant turfgrass species Apply 0 023 to 0 034 fl oz (0 7 to 1 0 ml) of **Topramezone 2 8 SC** per 1000 square feet of treated area Spray coverage should be uniform and complete See **Table 2** for spot spray mix amounts

NOTE Application to residential turfgrass and athletic fields is limited to spot spray only Refer to **Special Use Directions for Residential Turfgrass and Athletic Fields** section of this label for details

Mowing Information

To maximize weed control and minimize potential turfgrass injury **DO NOT** mow 2 days before through 2 days after applying **Topramezone 2 8 SC turfgrass herbicide**

Irrigation and Rainfall

If soil moisture is not sufficient prior to **Topramezone 2.8 SC** application irrigation may improve weed control. For best results **DO NOT** water or irrigate for 24 hours after application

Extended Residual Grass Control

To extend residual control of annual grass weeds **Topramezone 2 8 SC** may be tank mixed with herbicides including **Pendulum® 3 3 EC herbicide Pendulum® AquaCap™ herbicide PRE-M® 3 3 EC turf herbicide PRE-M® AquaCap™ herbicide** or **Tower® herbicide** Consult the respective tank mix labels for additional weeds controlled and follow the information in the **Mixing Order** section of this label

Seeding/Overseeding/ New Seeding/Renovation

Topramezone 28 SC can be used for weed control during turf establishment

Topramezone 2.8 SC Use During Tolerant Turfgrass Establishment When establishing new turfgrass from seed **Topramezone 2.8 SC** can be applied anytime before or after seeding with the exception of a 28 day period after seeding **DO NOT** apply **Topramezone 2.8 SC** for a period of 28 days after seeding tolerant turfgrass

Days After Seeding				
Apply	DO NOT Apply	Apply		
Day 1	[Day 28		

Spray Mix Additives

Crop oil concentrate or methylated seed oil are the preferred adjuvants for postemergence applications. See **Table 1** and **Table 2** for adjuvant rates

Topramezone 28 SC use with nonionic surfactants (NIS) or blends is not recommended because it may not provide satisfactory weed control

Crop oil concentrate or methylated seed oil used as an adjuvant with **Topramezone 2.8 SC** must meet all the following criteria

- Nonphytotoxic
- · Provide good mixing quality in the jar test
- · Successful in local experience

The exact composition of suitable products will vary however any COC or MSO used should contain emulsifiers to provide good mixing quality

When an adjuvant (or a specific adjuvant product such as a drift control agent) is to be used with this product the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant is recommended. Consult your local BASF representative or distributor for instructions for your area.

Compatibility Test for Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of labeled rate per acre

- 1 **Water** For 20 gallons per acre spray volume use 3 3 cups (800 ml) of water For other spray volumes adjust rates accordingly Use only water from the intended source at the source temperature
- 2 **Products in PVA bags** Cut an opening in the water soluble PVA bag just large enough to use a teaspoon for measuring purposes. Use the opened water soluble PVA bag first when preparing spray solution. Boroncontaining fertilizers may be incompatible with PVA material. Include PVA material if a boron fertilizer is intended to be used. Cap the jar and invert 10 cycles.
- 3 Water-dispersible products (dry flowables wettable powders suspension concentrates including **Topramezone 2.8 SC** or suspo emulsions) - Cap the jar and invert 10 cycles
- 4 Water-soluble products Cap the jar and invert 10 cycles
- 5 **Emulsifiable concentrates** (including COC or MSO) Cap the jar and invert 10 cycles
- 6 **Water-soluble additives** Cap the jar and invert 10 cycles

Let the solution stand for 15 minutes and evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface or thick (clabbered) texture. For water dispersible granule (WG) or wettable powder (WP) products a fine precipitate that is easily resuspended is normal large nondispersible particles (> 300 microns) that precipitate on standing are a sign of tank mix incompatibility **DO NOT** use any spray solution that could clog spray nozzles

Mixing Order

Thoroughly mix **Topramezone 2.8 SC** before dispensing from container

Maintain constant agitation throughout mixing and application

- 1 **Water** Begin by agitating a thoroughly clean sprayer tank 3/4 full of clean water
- 2 **Inductor** If an inductor is used rinse it thoroughly after each component has been added
- 3 **Products in PVA bags** Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing
- 4 Water-dispersible products (dry flowables wettable powders suspension concentrates including Topramezone 2 8 SC or suspo-emulsions)
- 5 Water-soluble products
- 6 Emulsifiable concentrates (including COC or MSO)

- 7 Water-soluble addrtives (including chelated iron or soluble nitrogen fertilizer when applicable not all chelated iron or sprayable nitrogen fertilizers are compatible with Topramezone 2 8 SC turfgrass herbicide) -Always perform a compatibility test to ensure proper mixing See Compatibility Test for Mix Components section of label for directions
- 8 Remaining quantity of water

Maintain constant agitation during application

Cleaning Spray Equipment

Clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturers directions before and after applying this product

Application Instructions

Apply with properly calibrated ground equipment in sufficient water per acre to provide uniform spray distribution (at least 30 galions of water per acre or at least 0 75 gallon per 1000 sq ft) Use low pressure sprayers delivering between 20 and 40 psi Maintain continuous agitation during spraying with good mechanical or bypass agitation Nozzle screens must be no finer than 50 mesh (100 mesh is finer than 50 mesh)

Check sprayer routinely to determine proper calibration Flat fan flood or cone nozzles may be used Arrange nozzles for uniform coverage of turfgrass and weeds Adjust boom height nozzle selection and pressure to pro vide uniform coverage and minimize spray drift Prevent overlaps that will increase rates above those labeled for use Avoid application when winds may cause drift

Spray Drift Management

Many factors including weather conditions (e g wind direction wind speed temperature relative humidity) and method of application can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product

Use only medium or coarser spray nozzles according to ASAE (S572) definition of standard nozzles

For ground-boom applications **DO NOT** apply with a nozzle height greater than 2 feet above the target site

DO NOT apply at wind speeds greater than 10 mph

When applying at wind speeds less than 3 mph the applicator must determine if conditions of temperature inversion exist or stable atmospheric conditions exist at or below nozzle height **DO NOT** make applications into areas of temperature inversion or stable atmospheric conditions

Restrictions and Limitations

- **DO NOT** apply more than 2 0 fl ozs of **Topramezone 2 8 SC** per acre (0 046 fl oz per 1000 sq ft) per application
- **DO NOT** apply more than 4 0 fl ozs **Topramezone 2 8 SC** (0 089 lb ai) per acre (0 092 fl oz per 1000 sq ft) per year
- DO NOT apply to golf course collars or greens
- Maintain a 5 ft buffer between treated areas and bent grass greens
- DO NOT make applications of Topramezone 2 8 SC to drought stressed turfgrass and/or drought stressed weeds
- Except for control or suppression of the following DO NOT apply to Bahiagrass Bermudagrass buffalograss carpetgrass creeping bentgrass St Augustinegrass seashore paspalum zoysiagrass dichondra or desirable clover
- Direct spray drift or runoff will injure nontolerant turfgrass and ornamentals **DO NOT** apply during conditions favoring drift from the target area **DO NOT** apply within ornamental beds or to areas where runoff into those areas is likely to occur
- DO NOT apply to exposed feeder roots of trees or ornamentals or within the dripline of trees and other ornamental species
- **DO NOT** use clippings as mulch around flowers ornamentals trees or in vegetable gardens
- DO NOT apply through any type of irrigation system
- **DO NOT** use to formulate or reformulate any other pesti cide product that is not registered by EPA
- DO NOT apply Topramezone 2 8 SC by air
- DO NOT apply an organophosphate or carbamate insecticide within 7 days of applying Topramezone 28 SC or turfgrass injury may result
- To reduce movement into sensitive species such as bentgrass avoid foot and vehicle traffic until spray has dried

Turfgrass Tank Mixes

Read and follow the applicable restrictions and limitations and directions for use on all products involved in tank mix ing The most restrictive label applies to any tank mix To control additional broadleaf weed species a tank mix with **Onetime® herbicide** 2.4 D triclopyr or other broadleaf herbicide may be used To increase control of grass weeds a tank mix with **Drive® XLR8 herbicide** or **Onetime** may be used For extended residual control apply **Topramezone 2.8 SC** with **Pendulum® 3.3 EC herbicide Pendulum® AquaCap™ herbicide PRE-M® 3.3 EC turf herbicide PRE-M® AquaCap™ herbicide** or **Tower® herbicide** The transitory whitening (bleaching) intensity of susceptible weed species from **Topramezone 2 8 SC turfgrass herbicide** can be reduced with tank mix mixtures of **Drive® XLR8 herbicide Onetime® herbicide** or triclopyr Consult labels for turfgrass tolerance when tank mixing 8

Physical incompatibility, reduced weed control or turfgrass injury may result from mixing **Topramezone 2.8 SC** with other pesticides (fungicides herbicides insecticides or miticides) additives or fertilizers Before tank mixing a jar test is required to ensure compatibility of herbicides or other pesticides and/or additives Refer to manufacturers labels for specific use directions precautions and limitations before tank mixing with **Topramezone 2.8 SC** Follow those that are most restrictive

Table 1 Postemergence Weed Control* in Turfgrass

Weed Species	Broadcast Application Rate	Additive Rate	
Annual Grass Weeds Controlled			
Barnyardgrass Crabgrass large Crabgrass smooth Crabgrass southern Cupgrass woolly Foxtail giant Foxtail green Foxtail green Foxtail yellow Goosegrass Johnsongrass seedling Millet wild proso Panicum fall Shattercane Signalgrass broadleaf Stiltgrass Japanese	1 0 to 1 5** fl ozs/A or 0 023 to 0 034 fl oz/1000 sq ft (0 7 to 1 0 ml)	COC or MSO 0 5 to 1% volume/volume (v/v) (2 to 4 qts/100 gallons of spray)	
Perennial Grass Weeds Controlle	d/Suppressed		
Bentgrass creeping ² Bermudagrass common ² Dallisgrass Nimblewill	Option A 3 applications at 1 0 to 1 33 fl ozs/A or 0 023 to 0 030 fl oz/1000 sq ft (0 7 to 0 9 ml) applied on a 3 to 4 week spray interval Initiate first application mid-to late summer or approximately 9 weeks to 12 weeks prior to fall reseeding period for cool season grasses Reseeding will aid in the percent conversion of ground cover back to the desired cool-season grass species Option B 2 applications at 1 5 ^{**} fl ozs/A or 0 034 fl oz/1000 sq ft (1 0 ml) applied on a 3 to 4 week spray interval Initiate first application late summer or approximately 6 weeks to 8 weeks prior to fall reseeding period for cool-season grasses	COC or MSO 0 5 to 1% v/v (2 to 4 qts/100 gallons of spray)	

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Table 1 Postemergence Weed Control* in Turfgrass (continued)

Weed Species	Broadcast Application Rate	Additive Rate
Broadleaf Weeds Controlled		
Amaranth Palmer	1 0 to 1 5** fl ozs/A	COC or MSO
Amaranth Powell	or	0 5 to 1% v/v
Burcucumber	0 023 to 0 034 fi oz/1000 sq ft	(2 to 4 qts/100 gallons of spray)
Carpetweed	(0 7 to 1 0 ml)	
Chickweed common		
Clover large hop		
Clover white		
Cocklebur common		
Dandelion common		
Galinsoga hairy		
Ground ivy		
Horseweed (Marestail)		
Jimsonweed		
Kochia		
Lambsquarters common		
Mallow common		
Mallow Venice		
Morningglory spp		
Mustard spp		
Nightshade black		
Nightshade Eastern black		
Nightshade hairy		
Oxalis (Yellow wood sorrel)		
Pigweed prostrate		
Pigweed redroot		
Pigweed smooth		
Pigweed tumble		
Prickly lettuce		
Ragweed common		
Ragweed giant		
Shepherd's purse		
Sida prickly		
Smartweed ladysthumb		
Smartweed Pennsylvania		
Speedwell (Veronica spp)		
Sunflower wild (common)		
Thistle Canada		
Thistle Russian		
Velvetleaf		
Waterhemp		

* Under certain conditions a single application of **Topramezone 2.8 SC turfgrass herbicide** may not provide com plete control A sequential application of an additional 1.0 to 1.5 fl ozs/A of **Topramezone 2.8 SC** 2 to 3 weeks after initial treatment may be necessary

**Use rate may be increased up to 2 0 fl ozs/A (0 046 fl oz/1000 sq ft) in Kentucky bluegrass only

¹ To improve control of annual grass weeds make applications before the fourth tiller growth stage Use the 1 0 fl oz/A rate for annual grass weeds up to the second tiller growth stage For annual grass weeds in the 2 to 4 tiller stage apply 1 5 fl ozs/A

²Control of these species requires a tank mix with triclopyr ester at 32 fl ozs/A (1 lb ae/A)

³ To improve control of broadleaf weeds make applications at early growth stages. To increase broadleaf weed species control spectrum a tank mix with **Onetime® herbicide** 2.4 D triclopyr or other broadleaf herbicide may be used

Special Use Directions for Residential Turfgrass and Athletic Fields

Topramezone 2.8 SC turfgrass herbicide may be used in residential turfgrass areas and athletic fields on Kentucky bluegrass centipedegrass fine fescue tall fescue and perennial ryegrass to control weeds listed in **Table 1** However applications **must be** limited to **spot applications** according to the following instructions

Apply 0 023 to 0 034 fl oz (0 7 to 1 0 ml) **Topramezone 2 8 SC**/1000 sq ft of treated area as follows in **Table 2** for spot spray mixture amounts

Spray Mıx Volume	Topramezone 2 8 SC in Mix				COC or MSO	Area
	0 023 fl oz per 1000 sq ft ¹	0 030 fl oz per 1000 sq ft²	0 034 fl oz per 1000 sq ft³	0 046 fl oz per 1000 sq ft⁴		Covered
(gallons)	(ml)	(ml)	(ml)	(ml)	(ml)	(sq ft)
1	07	09	10	14	30 (2 Tbls*)	1000
2	14	18	20	28	60 (4 Tbls*)	2000
3	21	27	30	42	90 (6 Tbls*)	3000
4	28	36	40	56	120 (8 Tbis*)	4000

Table 2 Spot Spraying with Topramezone 28 SC at 1 gallon/1000 sq ft Spray Volume

'Equivalent to 1 0 fl oz of product per acre

² Equivalent to 1 33 fl ozs of product per acre

³Equivalent to 1 5 fl ozs of product per acre

⁴Equivalent to 2 0 fl ozs of product per acre for use in Kentucky bluegrass only

*Tbls = Tablespoons

Mixing Instructions for Backpack and Pump-up Type Sprayers

Begin with a clean spray tank Fill the spray tank 1/2 full with clean water Add the required amount of **Topramezone 2.8 SC** Because a small amount of **Topramezone 2.8 SC** is required for spot applications use the following directions to ensure proper mixing Measure **Topramezone 2.8 SC** required for specific spray volume accord ing to **Table 2 DO NOT** add directly to the spray tank Pre mix in a small sealable container (e.g. 8 to 16 fl ozs) filled 1/2 to 3/4 with water Add contents to the spray tank Cap sprayer and agitate to ensure mixing Uncap sprayer and add appropriate amount of COC or MSO Cap sprayer and agitate again. Uncap sprayer and finish filling tank to desired level During application periodically agitate the mixture to ensure mixing. If the mixture is allowed to settle for any period of time thorough agitation is essential before spraying is resumed.

Apply spray mixture directly on sporadically occurring susceptible turfgrass weeds (see **Table 1**) For best results apply on a spray-to-wet basis Follow-up applications may be made if necessary (see **Table 1**) Use a spray colorant or indica tor in the spray tank for more efficient spot applications

DO NOT apply more than 4 0 fl ozs Topramezone 28 SC (0 089 lb ai) per acre (0 092 fl oz per 1000 sq ft) per year

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Plant injury ineffectiveness or other unintended consequences may result because of such factors as weather conditions presence of other materials or use of the product in a manner inconsistent with its labeling all of which are beyond the control of BASF CORPORATION (BASF) or the Selier. To the extent consistent with applicable law all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use** subject to the inherent risks referred to above

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT

BASF and the Seller offer this product and the Buyer and User accept it subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF 1108P **Drive Onetime Pendulum** and **Tower** are registered trademarks of BASF

AquaCap is a trademark of BASF

PRE-M is a registered trademark of LESCO Technologies LLC

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The Chemical Company