Frequency

Herbicide

For preemergence and postemergence weed control in Christmas tree, conifer, and hardwood plantations; field-grown ornamental production; and noncropland areas such as railroad, utility, highway, and pipeline rights-of-way; highway guardrails, delineators, and sign posts; utility substations, petroleum tank farms, pumping installations, farmyards and around farm buildings; fence rows, storage areas, airports, and nonirrigation ditchbanks

Active Ingredient:

topramezone: [3-(4,5-dihydro-isoxazolyl)-2-methyl-4-(methylsulfonyl)	
phenyl](5-hydroxy-1-methyl-1 <i>H</i> -pyrazol-4-yl)methanone	29.7%
Other Ingredients:	70.3%
Total:	100.0%

1 gallon contains 2.8 pounds of topramezone free acid.

EPA Reg. No. 7969-281

EPA Est. No.

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 the label, find someone to explain it to you in detail.)

See inside for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

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

Net Contents:



FIRST AID		
If in 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. 	
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. 	
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. 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 Agricultural Solutions US LLC (hereafter "BASF") for emergency medical treatment information: 1-800-832-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eve irritation. Avoid contact with skin, eyes, or clothing. Harmful if swallowed or absorbed through the skin.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves including barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber ≥ 14 mils, natural rubber (includes natural rubber blends and laminates) \geq 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils
- Shoes plus socks
- Goggles, face shield, or safety glasses

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 exist, 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/PPE 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 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 washwater 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 mixture 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 made of any waterproof material
- 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.

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

Nonrefillable 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 incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity ≤ 5 gallons) 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, 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 (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.

(continued)

STORAGE AND DISPOSAL (continued)

Container Handling (continued)

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 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

Spills

In case of large-scale spill of this product, call:

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

Steps to take if this material is released into the environment or spilled:

- Wear Personal Protective Equipment (PPE) and avoid exposure when managing a spill. (See **Precautionary Statements** section of this label for required PPE.)
- Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal.
- Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before reuse.
- Keep spill out of all sewers and open bodies of water.

Product Information

Frequency® herbicide is a suspension concentrate (SC) broad-spectrum preemergence and systemic postemergence herbicide for control or growth suppression of broadleaf and grass weeds in noncropland areas. When applied as directed, Frequency will control or suppress the broadleaf weeds listed in Table 1. Broadleaf Weeds Controlled and the grass weeds listed in Table 2. Grass Weeds Controlled. Frequency may be used for the control of these weeds in bareground programs; Christmas tree, conifer, and hardwood plantations; field ornamental production and selective weeding in areas such as utility, highway, and pipeline rights-of-way, etc. Postemergence applications of Frequency must include spray additives (see Additives section and Mixing Order section of this label).

Mode of Action

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

Herbicide Resistance Management

Management Plan

While weed resistance to **Group 27** herbicides is infrequent, populations of resistant biotypes are known to exist. Weeds resistant to **Group 27** herbicides may be effectively managed using herbicide(s) from a different group. Resistance management should be part of a diversified weed control strategy that integrates chemical, cultural, and mechanical (tillage) control tactics. Cultural control tactics include crop rotation, proper fertilizer placement, and optimum seeding rate/row spacing. Consult your local BASF representative, state cooperative extension service, professional consultants, or other qualified authority to determine appropriate actions if you suspect resistant weeds.

Chemical Control

- Start clean with tillage or an effective burndown herbicide program.
- **DO NOT** rely on a single herbicide site of action for weed control.
- Follow labeled application rate and weed growth stage specifications.
- The use of preemergence herbicides that provide soil residual control of broadleaf and grass weeds is recommended to reduce early season weed competition and allow for timely postemergence herbicide applications.
- Avoid application of herbicides with the same site of action more than twice a season.

 Use tank mixes and sequential applications with other herbicides possessing different sites of action that are also effective on the target weeds.

Scouting and Containment

- Scout areas after herbicide application to identify areas where weed control was ineffective.
- Control weed escapes with herbicides possessing a different site of action or use a mechanical control measure. Weed escapes should not be allowed to reproduce by seed or to proliferate vegetatively.
- Contact your **Frequency**® **herbicide** supplier and/or your local BASF representative to report weed escapes.
- Clean equipment before moving to a different field to avoid spread of resistant weeds.

Table 1. Broadleaf Weeds Controlled (4 to 16 fl ozs/A)

(4 to 16 fl ozs/A)			
Broadleaf Weeds	Maximum Size ^a (inches)		
Amaranth, Palmer Amaranth, Powell	6 6		
Burcucumber	6		
Carpetweed	6		
Chickweed, common	4		
Cocklebur, common	8		
Dandelion	6		
Galinsoga, hairy	6		
Horseweed (Marestail)	6		
Jimsonweed	6		
Kochia	6		
Lambsquarters, common	6		
Mallow, common Mallow, Venice	3 3 ^b		
Morningglory spp.	6 ^b		
Mustard spp.	6		
Nightshade, black Nightshade, Eastern black Nightshade, hairy	6 6 6		
Pigweed, prostrate Pigweed, redroot Pigweed, smooth Pigweed, tumble	6 6 6 4		
Prickly lettuce	4		
Ragweed, common Ragweed, giant	6 8		
Shepherd's purse	4		
Sida, prickly	3		
Smartweed, ladysthumb Smartweed, Pennsylvania	3 3		

(continued)

Table 1. Broadleaf Weeds Controlled (continued) (4 to 16 fl ozs/A)

, , , , , , , , , , , , , , , , , , , ,				
Maximum Size ^a (inches)				
8 8				
6 ^b 4				
8				
6 6				
3				

^a For best control, apply before weeds reach maximum size.

Table 2. Grass Weeds Controlled

(4 to 16 tl ozs/A)			
Grass Weeds	Maximum Leaf Stage ¹	Maximum Size ¹ (inches)	
Barnyardgrass	4	4	
Crabgrass, large Crabgrass, smooth	4 4	3 3	
Cupgrass, woolly	3	3	
Dallisgrass ²	3	3	
Foxtail, giant Foxtail, green Foxtail, yellow	4 3 3	4 3 3	
Goosegrass	4	3	
Johnsongrass, seedling	3	4	
Millet, wild proso	3	3	
Panicum, fall	3	3	
Shattercane	3	4	
Signalgrass, broadleaf	3	3	
Sprangletop	3	3	

¹ For best control, apply before weeds reach maximum size or leaf stage.

Application Methods and Equipment

Frequency may be applied by either ground or air. Use adequate spray volume to provide accurate and uniform distribution of spray droplets over the treated area and to avoid spray drift to nontarget areas. Adjust equipment to maintain continuous agitation during spraying with good mechanical or bypass agitation. Avoid overlaps that will increase rates above the maximum use rates specified in this label.

DO NOT exceed a total of 16 fl ozs per treated acre per year.

^b Growth suppression only

² Growth suppression only

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

Coverage

For postemergence application, weeds must be thoroughly covered with spray. Dense leaf canopies shelter small weeds and can prevent adequate spray coverage.

For optimal weed control, apply **Frequency** before weeds exceed labeled height.

Postemergence applications of **Frequency** should be applied a minimum of 1 hour before rainfall and require the use of spray additives (see **Additives** section).

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 speed exceeds 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.

Ground Application (Broadcast)

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 infestations.

Ground Application (Banding)

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 infestations.

For banded application, use the following formulas to calculate the banded herbicide rate and water volume per acre:

Bandwidth in inches		Broadcast		Banded
	- v	rate per acre	=	herbicide rate
Row width in inches				per acre
Bandwidth in inches	X	Broadcast volume		Banded water volume
Row width in inches		volume	=	water volume
110W WIGHT IIT IITICHES		per acre		per acre

Spot Treatment

To prepare the spray solutions, thoroughly mix in water 0.25 to 0.5% (0.32 to 0.64 fl oz/gallon water) **Frequency** plus an adjuvant (see **Additives** section). A methylated seed oil at 1% by spray volume is the suggested spray adjuvant. When making spot applications, spray coverage should be sufficient to moisten the leaves of the target vegetation, but not to the point of runoff. See section on desired species.

Aerial Application

Uniformly apply with properly calibrated aerial equipment in 2 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 nontarget areas. To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following special aerial use directions and precautions.

Applicators are required to use a coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet. Applicators are required to use a very coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet. Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.

Nozzles must be pointed toward the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.

DO NOT apply when wind speed is greater than 10 mph.

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. Triple rinse the equipment before and after applying this product.

MANAGING OFF-TARGET MOVEMENT

The following information is provided as general guidance for managing off-target movement. Specific use directions for **Frequency** may differ depending on the application technique used and the vegetation management objective.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-related and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or nontarget crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions.

To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product.

The best drift management strategy and most effective way to reduce drift potential is to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions (see **Wind**; **Temperature and Humidity**; and **Temperature Inversions**).

Controlling droplet size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure DO NOT exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** Orienting nozzles so the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift. **DO NOT** use nozzles producing a mist droplet spray.

Application Height

Making applications at the lowest possible height (aircraft, ground-driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. aircraft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind

Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential.

NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud that can move in unpredictable directions due to the light, variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light-to-no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion

Avoid treating powdery, dry, or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Additives

Postemergence application of **Frequency® herbicide** requires the addition of an adjuvant to achieve optimum weed control.

Always use a methylated seed oil (MSO) or a petroleum-based or vegetable seed-based oil concentrate (COC) with **Frequency**. 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 suggested. Apply these oil-based adjuvant concentrates at the rate of 1.0 to 1.5 gallons per 100 gallons of water [1.0% to 1.5% volume-to-volume (v/v)]. Use the higher rate when making an application during periods of hot, dry weather. A nitrogen-based surfactant blend may be used as an alternative or additive to COC or MSO.

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

Mixing Instructions

Fill the spray tank until it is approximately 1/2 full with clean water. Shake the **Frequency** container well; then slowly add **Frequency** to the spray tank while agitating. Agitation must be engaged before adding the product to obtain a complete and uniform mixture of **Frequency**.

Limit the amount of spray mixture prepared to that needed for immediate use.

Mixing Order

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 **Frequency® herbicide** to the spray tank while agitating.
- After Frequency has visibly dispersed, add spray additives and fill the remainder of the tank with water.

Tank Mix Preparation

When tank mixing **Frequency** with registered 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 **Frequency** 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.

Tank Mix Information

Frequency may be used sequentially or tank mixed with other herbicides as part of a complete weed control program. Frequency may be tank mixed only in states where the sequential or tank mix product and application site are registered. Refer to Noncrop 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.

Restrictions and Limitations

- **DO NOT** apply more than 16 fl ozs **Frequency** (0.35 lb topramezone) per acre during the year.
- DO NOT apply to areas that can be grazed or cut for hay.

Noncrop Use Directions

Bareground

Frequency can be used as part of a program for non-selective vegetation control to maintain bareground in noncrop areas that must be kept weed free such as railroad, utility, highway, and pipeline rights-of-way; highway guardrails, delineators, and sign posts; utility substations, petroleum tank farms, pumping installations, fence rows, storage areas, farmyards and around farm buildings and nonirrigation ditchbanks.

Frequency offers residual and postemergence control of susceptible annual broadleaf and grass weeds. Adequate moisture is necessary to activate **Frequency**. Dry weather following application may reduce effectiveness. The actual

length of residual control is dependent on factors such as soil type, organic matter, weed pressure, and rainfall amounts after application.

Preemergence Application

Apply **Frequency** at 4 to 16 fl ozs/A before weed emergence to control susceptible weeds listed in **Table 1** and **Table 2**. For best performance, tank mix **Frequency** with other residual herbicides such as **Arsenal® PowerLineTM** herbicide, **Journey® herbicide**, **Pendulum® AquaCapTM herbicide**, **Plateau® herbicide**, or diuron.

Early Postemergence Application

For areas where weed emergence has already occurred, apply **Frequency** at 4 to 16 fl ozs/A before weeds reach the maximum size or leaf stage listed in **Table 1** and **Table 2**. Postemergence application of **Frequency** requires the use of an adjuvant to achieve optimum weed control (see **Additives** section). To increase postemergence spectrum, **Frequency** can be tank mixed with **Roundup®** (glyphosate). For best residual effects, tank mix with **Arsenal PowerLine**, **Journey**, **Pendulum AquaCap**, **Plateau**, or diuron (refer to respective labels for appropriate use rates).

Christmas Tree, Conifer and Hardwood Tree Plantings and Plantations

Frequency may be used for selective weed control in Christmas tree plantations and conifer and hardwood plantations. See the following sections for more information on specific uses.

Christmas Tree Plantations

Frequency may be used as a preemergence or directed postemergence application in Christmas tree plantations to control broadleaf and grass weeds listed in Table 1 and Table 2. Apply Frequency as a directed spray application either as a uniform broadcast application or as a uniform banded application directed at the base of the trees. If targeting emerged weeds, include spray additives (see Additives section). Spray contact of the needles or buds either directly via improper nozzle orientation or indirectly via physical drift may result in crop injury.

Frequency may be applied in a single application at a maximum rate of 4 fl ozs/A. Sequential applications can be made up to a maximum total of 16 fl ozs/A per year.

- **DO NOT** apply more than 4 fl ozs/A per application.
- DO NOT apply more than 16 fl ozs/A per year.
- Allow a minimum of 30 days between Frequency applications.
- DO NOT make over-the-top applications to Christmas trees or injury may occur.

Conifer and Hardwood Plantations

Apply **Frequency** plus the recommended adjuvant (see **Additives** section for details) for the control of undesirable plants during site preparation operations conducted before

planting and establishment of conifer and hardwood plantations and in the year following transplanting.

Site Preparation Application

Frequency® herbicide may be applied as a broadcast application or spot treatment during preplant site preparation for the control of undesirable herbaceous broadleaf weed species in plantations at a rate of 4 to 16 fl ozs/A in combination with **Chopper® Gen2**TM **herbicide** at the specified site preparation rate (see **Chopper Gen2** label). Refer to **Table 1** and **Table 2** for specific weed species controlled.

Herbaceous Weed Control

Frequency may be used for selective weeding in conifer and hardwood plantations at a rate of 4 to 16 fl ozs/A. Apply Frequency as a broadcast treatment, banded over tree rows, or as a directed spray for release of young trees from herbaceous weeds (see species controlled in Table 1 and Table 2) in the year following transplanting. For conifers, tank mix with the herbaceous weed control rate of Arsenal® herbicide or Arsenal® herbicide Applicators Concentrate (see Arsenal or Arsenal herbicide Applicators Concentrate label). To prevent the possibility of crop tree injury, DO NOT apply Frequency when trees are under stress from drought, disease, animal or winter injury, planting shock, or other stresses reducing vigor.

Field-grown Ornamentals

Frequency may be used to provide control of labeled species in field-grown ornamental production. Established plants listed in **Table 3** are tolerant to **Frequency** when sprayed as directed. However, not all varieties or strains of plant species listed have been tested. Refer to **Instructions and Restrictions in Production**

Ornamentals section in this label before any **Frequency** application. Unintentional consequences such as crop injury may result because of certain environmental or growing conditions, manner of use, or application. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage before full-scale application. **Frequency** may be applied as a preemergence or directed postemergence application to control weeds listed in **Table 1** and **Table 2**.

Frequency may be applied in a single application at a maximum rate of 4 fl ozs/A.

- **DO NOT** apply more than 4 fl ozs/A per application.
- **DO NOT** apply more than 16 fl ozs/A per year.
- Allow a minimum of 30 days between Frequency applications.

For improved preemergence spectrum, **Frequency** may be tank mixed with **Pendulum® AquaCapTM herbicide** (see respective label for specific rate information). Postemergence application of **Frequency** must include spray additives (see **Additives** section). **Frequency** may be used in conjunction with herbicides registered for directed postemergence use in ornamentals. Consult the labels of

those herbicides for suggested treatments, rates to be used, and precautions or restrictions for use in these areas.

The preemergence efficacy of **Frequency** will improve if the application is followed by 1/2 inch of rainfall or its equivalent in sprinkler irrigation. If **Frequency** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Applied according to label directions and under normal growing conditions, **Frequency** will not cause crop injury. Overapplication can result in crop stand loss, crop injury, or soil residue. Uneven application can decrease weed control or cause crop injury.

Disease, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken plants and increase the possibility of plant damage from **Frequency**.

Instructions and Restrictions ¹ in Production Ornamentals (Directed Applications Only)		
Site	Application Instructions and Restrictions	
Newly transplanted field-grown nursery stock ^{2, 3}	 Use shielded sprayer until plantings have been established for 1 year or more in the field. DO NOT apply until transplants have been watered and soil has been thoroughly settled around transplants. Ensure there are no cracks in the soil where Frequency could come into contact with the roots. DO NOT apply during bud swell, bud break or at time of first flush of new growth. Direct sprays away from grafted or budded tissue on transplants at all times. 	
Established container or field-grown nursery stock ^{2, 3}	 DO NOT apply during bud swell, bud break, or at time of first flush of new growth. Apply as a directed spray. If newly budded or grafted rootstock, apply with a shielded sprayer. Ensure there are no cracks in the soil where Frequency could come into contact with the roots. 	
Greenhouses, shadehouses, or other enclosed structures	DO NOT apply in greenhouses, shadehouses or other enclosed structures.	

¹ Plant only those desirable plant species listed on this label into soil treated the previous season with **Frequency** or injury may occur.

² Before treating a large number of plants, spray a few plants and observe for 1 to 2 months for plant damage before full-scale application.

³ DO NOT treat plants grown for food or feed. DO NOT use treated plants for food or feed.

The following established ornamentals are tolerant to **Frequency® herbicide** spray when applied as specified. Refer to **Instructions and Restrictions in Production Ornamentals** before application.

Table 3. Tolerant Ornamental Trees			
Common Name	Scientific Name		
Eucalyptus (Silver-dollar) tree	Eucalyptus cinerea		
Fir, Balsam	Abies balsamae		
Fir, Douglas	Pseudotsuga menziesii		
Fir, Fraser	Abies fraseri		
Fir, white	Abies concolor		
Pine, Austrian	Pinus nigra		
Pine, Italian stone	Pinus pinea		
Pine, loblolly	Pinus taeda		
Pine, Monterey	Pinus radiata		
Pine, red	Pinus resinosa		
Pine, Scotch	Pinus sylvestris		
Pine, Virginia	Pinus virginiana		
Pine, white	Pinus strobus		
Spruce, Colorado blue	Picea pungens		
Spruce, dwarf Alberta	Picea glauca 'Albertiana'		
Spruce, Norway	Picea abies		
Spruce, white	Picea glauca		

Selective Weeding

Frequency may be used for selective weed control in unimproved and native cool-season grass (such as bluegrass and fescue) and select native warm-season grass (such as little and big bluestem) in highway roadsides, utility rights-of-way, railroad crossings, airports, nonirrigation drainage ditches, and other industrial noncropland sites. Refer to **Table 4** for a complete list of tolerant perennial grass species.

For best control, apply as an early postemergence application before weeds reach the maximum size or leaf stage listed in **Table 1** and **Table 2**. Postemergence application of **Frequency** must include spray additives (see **Additives** section).

For increased residual weed control, use the 4 fl ozs/A rate.

- **DO NOT** apply more than 4 fl ozs/A per application.
- **DO NOT** apply more than 16 fl ozs/A per year.
- Allow a minimum of 30 days between Frequency applications.

Frequency may be tank mixed with other registered products such as **Overdrive® herbicide** to broaden the weed control spectrum.

Perennial Grass Tolerance

Apply **Frequency** during favorable growing conditions for optimum grass tolerance and weed control. Grass under environmental stress is more likely to show injury from any herbicide application. Rarely, plants under these conditions treated with **Frequency** may show transient bleaching of the portion of the leaves intercepting the spray application. These symptoms are temporary and occur infrequently; growth is not affected.

Application of **Frequency** on Bermudagrass will result in bleaching and severe injury. If treating grass not listed in **Table 4. Tolerant Perennial Grass Species**, apply on a small area to test grass response and tolerance.

Table 4. Tolerant Perennial Grasses			
Common Name	Scientific Name		
Big bluestem	Andropogon gerardii		
Centipedegrass	Eremochloa ophiuroides		
Chewings fescue	Festuca rubra		
Creeping red fescue	Festuca rubra		
Eastern gamagrass	Tripsacum dactyloides		
Hard fescue	Festuca longifolia		
Indiangrass	Sorghastrum nutans		
Kentucky bluegrass	Poa pratensis		
Little bluestem	Schizachyrium scoparium		
Perennial ryegrass	Lolium perenne		
Tall fescue	Festuca arundinacea		

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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. Crop 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 Agricultural Solutions US LLC ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

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