

007969-00137-042299

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Systems Integration Group, Inc.

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7969-137 04/22/99 page 1 of 20 Best Available Copy

APR 2 2 1993

Mr. Helvin Graben Registration Scientist Agricultural Products BASE Corporation P.O Box 13526 Research Triangle Park, NC 27709

Dear Mr. Graben:

23

Subject: Clarity[®] Herbicide EPA Registration No. 7969-137 Application and Letter Dates April 11, 1999, Request To Pevice Labeling To Clarify Directions of use, To and new rests and the Add a Restriction Avaiust Frencryest Applications in California

in provide assolute substitutes with the subject specifier tion are tech reviewed and found acceptable under the fourer is solutive, see it is an adenticide at as eaching, stovious やしい わい ションマキー

o submit one (1) copy of the innal frinted laber before you retease the product for shipment under the subject labeling.

If this condition is not complied with, the redistration will be subject to concellation in accordance with FIFRA, section o(e). Your release for snipment of the product sheer this laber constitutes acceptance of this condition.

A sturped dupy of the label is enclosed for your records.

Sincerely yours,

Joanne I. Hiller Product Manager (23) Herbicide Branch Registration Division (7505C)

Enclosure

- 	E.Wilson/Diskette DICAMBA-04-26-99							
SYMBOL								
SURNAME								
DATE								
EPA Form	1320-1 (12-70)			•	······	<u> </u>	OFFICI	AL FILE COPY

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RT Date: 4-8-99 Copy 3d

ACCEPTED with COMMENTS In EPA Letter Dated

APR 2 2 1999 Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 7967-131



For weed control in asparagus, conservation reserve programs, corn, cotton, fallow croplands, general farmstead (noncropland), sorghum, grass grown for seed, hay, proso millet, pasture, rangeland, small grains, soybean, sugarcane, and turf.

Active Ingredient:	
Diglycolamine salt of 3,6-dichloro-g-anisic acid*	3.8%
Inert Ingredients:	<u>3.2%</u>
Total	0.001
 contains 38,5% 3,6-dichloro-<u>o</u>-anisic acid (4 pounds acid equivalent per gallon or 480 g per liter). 	irams

EPA Reg. Number: 7969-137

BAS

EPA Est. Number: 68323-TX-1

KEEP OUT OF REACH OF CHILDREN. CAUTION

See inside booklet for complete Precautionary Statements, Statement of Practical Treatment, Directions For Use, and Conditions of Sale and Warranty.

Net contents: 2.5 gallons (9.46 liters)

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Avoid contact with skin, eyes or clothing.

)sh thoroughly after handling. In case of contact, infimediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

Statement of Practical Treatment

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or if available, by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce vomiting.

If on skin: Wash with plenty of soap and water. Get medical attention.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

ash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them. Follow the 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.

Engineering Controls Statement

*/hen handlers use closed systems, enclosed cabs, aircraft in a manner that meets the requirements

...sted 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.

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 Hazards

Keep out of lakes, streams, or ponds. For terrestrial uses, 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. Apply this product only as directed on the label.

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

nents Ground and Sur Point source cc

Ground and Surface Water Protection Point source contamination: To prevent point

source contamination, to prevent point source contamination, do not mix, load this pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. Do not apply pesticide product within 50 feet of wells. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas as described below.

Mixing, loading, rinsing, or washing operations performed within 50 feet of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or move across the pad. The pad must be selfcontained to prevent surface water flow over or from the pad. The pad capacity must be maintained at 110% that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment or container leaks, equipment wash waters, and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Care must be taken when using this product to prevent: a) back siphoning into wells, b) spills or c) improper disposal of excess pesticide, spray mixtures or rinsates. Check valves or antisiphoning devices must be used on all mixing equipment.

Movement by surface runoff or through soil: Do not apply under conditions which favor runoff. Do not apply to impervious substrates such as paved or highly compacted surfaces in areas with high potential for ground water contamination. Ground water contamination may occur in areas where soils are permeable or coarse and around water is near the surface. Do not apply to soils classified as sand with less than 3% organic matter and where ground water depth is shallow. To minimize the possibility of ground water contamination, carefully follow application rate recommendations as affected by soil type in the general information section of this labe Movement by water erosion of treated soil: Do not apply or incorporate this product through any type of irrigation equipment nor by flood or furrow

irrigation. Ensure treated areas have received at least one-half inch rainfall (or irrigation) before using tailwater for subsequent irrigation of other fields.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

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.

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Unless otherwise directed in supplemental labeling, 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.

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 **24 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

)

- Waterproof gloves
- Shoes plus socks

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sinkholes.

Pesticide Storage: Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Avoid cross-contamination with other pesticides.

Pesticide Disposal: Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility.

Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures under Subtitle C of the Resource Conservation and Recovery Act. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law.

Container Disposal:

- <u>Plastic or Metal Containers:</u> Triple rinse (or equivalent) and add rinsate to spray tank. Then offer for recycling 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.
- <u>Bulk/Mini-bulk Containers</u>: Reusable containers should be returned to the point of purchase for cleaning and refilling because the container must be thoroughly cleaned before refilling.

In Case of Emergency

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

- CHEMTREC 800-424-9300
- BASF Corporation 800-832-HELP

In case of medical emergency regarding this product, call:

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

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 separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

I. General Information

Clarity³ **herbicide** is a water-soluble formulation intended for control and suppression of many annual, biennial, and perennial broadleaf weeds as well as woody brush and vines listed in **Table 1**. **Clarity** may be used for control of these weeds in asparagus, corn, cotton, conservation reserve programs, fallow cropland, grass grown for seed, hay, proso millet, pasture, rangeland, general farmstead (noncropland), small grains, sorghum, soybean, sugarcane, and turf.

Mode of Action

Clarity is readily absorbed by plants through shoot and root uptake, translocates throughout the plant's system, and accumulates in areas of active growth. **Clarity** interferes with the plant's growth hormones (auxins) resulting in death of many broadleaf weeds.

Resistance Management

Clarity has a low probability of selecting for resistant weed biotypes.

Cleaning Spray Equipment

C can application equipment thorough y by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and then triple rinsing the equipment before and after applying this product.

II. Application Instructions

Clarity can be applied to actively growing weeds as aerial, broadcast, band, or spot spray applications using water or sprayable fertilizer as a carrier. For crop-specific application timing and other details, refer to section **VI. Crop-Specific Information**.

To avoid uneven spray coverage, **Clarity** should not be applied during periods of gusty wind or when wind is in excess of 15 mph.

Avoid off-target movement. Use extreme care when applying **Clarity** to prevent injury to desirable plants and shrubs.

Cultivation

Do not cultivate within 7 days after applying Clarity.

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Table 1. General Weed List, Including ALS- and Triazine-Resistant Biotypes

	,		
ANNUALS	Poorjoe	PERENNIALS	WOODY SPECIES
Alkanet	Poppy, Hed-horned	Alfalfa	Alder
Aster, Slender	Puncturevine	Artichoke, Jerusalem	Ash
Bedstraw, Catchweed	Purslane, Common	Aster, Spiny, Whiteheath	Aspen
Veggarweed, Florida	Pusley, Florida	Bedstraw, Smooth	Basswood
Joomweed, Common	Radish, Wild	Bindweed, Field, Hedge	Beech
Buckwheat, Tartary, Wild	Ragweed, Common, Giant	Blueweed, Texas	Birch
Buffalobur	(Buffaloweed), Lance-Leaf	Bursage, Woollvleaf ¹ (Bur	Blackberry ²
Burclover California	Rocket, London, Yellow	Bagweed, Povertyweed)	Blackgum ²
Burcucumber	Rubberweed Bitter (Bitterweed)	Buttercup Tall	Cedar ²
Buttercup Corp Creeping	Salsify	Campion Bladder	Chern/
Duttercup, Cont, Creeping	Sanna Coffee	Chickwood Eiold Moussoor	Chinguapin
, Roughseed, Western Field	Sechania Homo	Chicand	Cottopuood
Carpetweed	Sesbana, nemp		Collonwood
Catchfly, Nightflowering	Snepheraspurse	Clover', Hop	Creosotepusn
Chamomile, Corn	Sicklepod	Dandelion',	Cucumbertree
Chervil, Bur	Sida, Prickly (leaweed)	Dock ¹ , Broadleaf (Bitterdock),	Dewberry ²
Chickweed, Common	Smartweed, Green,	Curly	Dogwood ²
Clovers	Pennsylvania	Dogbane, Hemp	Elm
Cockle, Corn, Cow, White	Sneezeweed, Bitter	Dogfennel' (Cypressweed)	Grape
Cocklebur, Common	Sowthistle, Annual, Spiny	Fern, Bracken	Hawthorn (Thornapple) ²
Copperleaf Hophornbeam	Spanish Needles	Garlic, Wild	Hemlock
Cornflower (Bachelor Button)	Spikeweed, Common	Goldenrod, Canada, Missouri	Hickory
Croton Tropic Woolly	Source Prostrate Leafy	Goldenweed Common	Honevlocust
Deley English	Spurge, Producto, Eduly	Hawkwood	Honeysuckle
Dalsy, English Dresenbased American	Starbur Brietly	Honbano Black	Hornbeam
Dragonneau, American	Stanuort Little	Horpopottla, Carolina	Hucklobarny
Eveningprimrose, Culleal	Starwort, Dille	Horsenettie, Carolina	Huckleberry
ilsetlax, Smallseed	Sumpweed, Rough	Ironweed	
ieabane, Annual	Sunnower, Common (Wild),	Knapweed, Black, Diffuse,	IVy, Polson
Flixweed	Volunteer	Russian', Spotted	Kuazu
Fumitory	Thistle, Russian	Milkweed, Climbing, Common,	Locust, Black
Goosefoot, Nettleleaf	Velvetleaf	Honeyvine, Western	Maple
Hempnettle	Waterhemp	Whorled	Mesquite
Henbit	Waterprimrose, Winged	Nettle, Stinging	Oak j
Jacobs-Ladder	Wormwood	Nightshade, Silverleaf (White	Oak, Poison
Jimsonweed	ł	Horsenettle)	Olive, Russian
Knawel (German Moss)	BIENNIALS	^I Onion. Wild	Persimmon, Eastern
Knotweed Prostrate	³ Burdeck, Common	Plantain Broadleaf Buckhorn	Pine
Kochia	Carrot, Wild (Queen Anne's	Pokeweed	Plum Sand (Wild Plum)?
- duathumh	Lace)	Dagwood Western	Poplar
aystrumo	Cockle White	Deduine	Dabhithrush
impsquarters, Common	Eveningerimrese Common	Redvine Serieis Leanadaza	Redeeder Enstern?
Lettuce, Miners, Prickly	Coreci :m. Corolino	Sencia Lespedeza	Densi MaCasteri Multiflara
Mallow, Common, Venice	Consulta Cromissall	Smartweed, Swamp	Rose', McCartney, Muthiora
Marestall (Horsewood)	Uranusad Diffusa Castlad	Snakeweed, Broom	Sagebrush, Ennged
Mayweed	- Knapweed, Uniuse, Spotted	Sorrel , Red (Sheep Sorrel)	Sassatras
Morningglory, Ivyleaf, Tall	Ivialiow, Dwart	Sowthistle', Perennial	Serviceberry
Mustard, Black, Blue, Tansy,	Planta:n, Bracted	Spurge, Leafy	Spicebush
Troacie, Tumble, Wild.	Bagwicht, Tansy	Sundrop,	Spruce
Yellowtops	Starthistle, Yellow	Thistle, Canada, Scotch	Sumac
bhtshade Black Cutleaf.	Sweetclover	. Toadflex. Dalmatian	Sweetaum ²
ennycress Field (Fanweed	Tease!	Tropical Soda Apole	Svcamore
Frenchweed Stinkwood	Thistle, Bull, Milk, Musk.	Trumpetcreeper (Buckvine)	Tarbush
Pannanwood Virginia	Piumeless	Vetch	Willow
(Depperated)		Waterhemlock Spotted	Witchbazel
Diawood Amorooth Spinu		Waterprimmee Crooping	Yaunon ²
Figweeu, Amaranin, Spirly,		Woodcorroll Crossing Vellow	Yucoo?
Prostrate, Hedroot		Wermussed Lauisiana	Tucca"
(Carelessweed), Rough,		i vvormwood, Louisiana	
Smooth, lumble		rankeeweed	
Pineappleweed		rarrow, Common'	

' Noted perennials may be controlled using lower rates of Clarity than those recommended for other listed perennial weeds.

² Growth suppression only

Sensitive Crop Precautions

Clarity[®] **herbicide** may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes, and other broadleaf plants when contacting their roots, stems, or foliage. These plants are most sensitive to **Clarity** during their development or growing stage.

Secoarse sprays (volume median diameter of 400 prons or more) to avoid potential herbicide drift. Select nozzles that are designed to produce minimal amounts of fine spray particles (less than 200 microns). Examples of nozzles designed to produce coarse sprays via ground applications are **Delavan® Raindrops**, **Spraying Systems XR** (excluding 110° tips) flat fans, **Turbo Teejets®**, **Turbo Floodjets®**, or large capacity flood nozzles such as D10, TK10, or greater capacity tips. Keep the spray pressure at or below 20 psi and the spray volume at or above 20 gallons per acre, unless otherwise required by the manufacturer of drift-reducing nozzles. Consult your spray nozzle supplier concerning the choice of driftreducing nozzles.

• Agriculturally approved drift-reducing additives may be used.

Aerial Application Methods and Equipment

Water Volume: Use 1-10 gallons of water per acre (2-20 gallons of diluted spray per treated acre for preharvest uses). Use the higher spray volume when treating dense or tall vegetation.

Application Equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Make aerial applications at the lowest safe height to reduce exposing the spray to evaporation and wind. The applicator must follow the most restrictive use cautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Do not use aerial equipment if spray particles can be carried by the wind into areas where sensitive crops or plants are growing or when temperature inversions exist.

Ground Application (Banding)

When applying **Clarity**[®] herbicide by banding, determine the amount of herbicide and water volume needed using the following formula:

Bandwidth in inches X Broadcast rate Banding herbicide Row width in inches X per acre rate per acre

Bandwidth in inches X Broadcast Row width in inches X volume per acre = Banding water acre

Ground Application (Broadcast)

Water Volume: Use 3-50 gallons of spray solution per broadcast acre for optimal performance. Use the higher spray volume when treating dense or tall vegetation.

Application Equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

Ground Application (Wipers)

Clarity may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush, and vines. Use a solution containing 1 cast **Clarity** to 1 past water. Do not contact desirable vegetation with herbicide solution. Wiper application may be made to crops (including pastures) and non-cropland areas described in this tabel with the exception of cotton, sorghum, and soybean.

III. Additives

To improve postemergence weed control, agriculturally approved surfactants, sprayable fertilizers (urea ammonium nitrate, or ammonium sulfate), or crop oil concentrate may be added, particularly in dry growing conditions. (Refer to **Table 3 Additive Rate**.)

Nitrogen Source

- Urea ammonium nitrate (UAN): Use 2-4 quarts of UAN (commonly referred to as 28%, 30%, or 32% nitrogen solution) per acre. Do not use brass or aluminum nozzles when spraying UAN.
- Ammonium sulfate (AMS): AMS at 2.5 pounds per acre may be substituted for UAN. Use highquality AMS (spray grade) to avoid plugging of nozzles. Other sources of nitrogen are not as effective as those mentioned. BASF does not recommend applying AMS if applied in less than 10 gallons per acre because of potential problems with precipitation in reduced volumes. Use AMS only if it has been demonstrated to be successful in local experience.

Nonionic Surfactant

The standard label recommendation is 1 pint of an 80% active nonionic spray surfactant per 100 gallons of water. For certain weeds, a higher spray surfactant rate is recommended.

Oil Concentrate

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic.
- · contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils.

For additional information, see Compatibility Test for Mix Components.

Adjuvants containing crop oil concentrates may be used in preplant, pre-emergence, and preharvest applications as well as in pastures and noncropland. Do not use crop oil concentrate for postemergence in-crop applications unless specifically allowed in section **VI. Crop-Specific Information** of this label.

 Table 2. General Clarity Application Rates for Control or Suppression by Weed Type and Growth Stage

 Use rate limitations are given in section VI. Crop-Specific Information.

Weed Type and Stage	Rate Per Acre	Weed Type and Stage	Rate Per Acre
Annual ¹ Small, actively growing Established weed growth Biennial Rosette diameter 1-3" Rosette diameter 3" or more Bolting	8-16 fluid ounces 16-24 fluid ounces 8-16 fluid ounces 16-32 fluid ounces 32-48 fluid ounces	Perennial Top growth suppression Top growth control and root suppression Noted perennials (footnote 1 in Table 1) Other perennials ³ Woody Brush & Vines Top growth suppression Top growth control ²³ Stems and stem suppression ³	8-16 fluid ounces 16-32 fluid ounces 32-64 fluid ounces 64 fluid ounces 16-32 fluid ounces 32-64 fluid ounces 64 fluid ounces

"Rates below 8 fluid ounces per acre may provide control or suppression but should typically be applied with other herbicides that are effective on the same species and biotype.

- ² Species noted in Table 2 will require tank mixes for adequate control.
- ³ Do not broadcast apply more than 64 fluid ounces per acre. Use the higher level of listed rate ranges when treating dense vegetative growth or perennial weeds with well established root growth.



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Table 3. Additive Rate Per Acre

Additive	Rate Per Acre	
Nonionic Surfactant	1-2 pints per 100 gallons	
AMS	2.5 pounds	
AN Solution	2-4 quarts	
Jrop Oil Concentrate	1 quart*	

* see manufacturer's label for specific rate recommendations

Compatibility Test for Mix Components Before mixing components, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the **Mixing Order** using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the

Jution for uniformity and stability. The spray solution ...iould not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is then compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, do not mix the ingredients in the same tank.

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Mixing Order

 Water. Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.

- 2) Agitation. Maintain constant agitation throughout mixing and application.
- 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.
- Water-dispersible products (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
- 5) Water-soluble products (such as Clarity* herbicide)
- 6) **Emulsifiable concentrates** (such as oil concentrate when applicable).
- Water-soluble additives (such as AMS or UAN when applicable).
- 8) Remaining quantity of water.

Maintain constant agitation during application.

IV. General Tank Mixing Information

Tank Mix Partners/Components

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The following products may be applied with Clarity® herbicide according to the specific tank mixing instructions in this label and respective product labels. Several synthetic pyrethroid insecticides are labeled for tank mix applications with Clarity.

See section VI. Crop-Specific Information for more details. Read and follow the applicable Restrictions and Limitations and Directions For Use on all products involved in tank mixing. The most restrictive

labeling applies to tank mixes. Physical incompatibility, reduced weed control, or crop injury may result from mixing Clarity with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling. Local agricultural authorities may be a source of information when using other than BASF recommended tank mixes.

- Accent[®] (nicosulfuron) · Ally (metsulfuron-
- methyl)
- Amber* (triasulfuron) Asulox® (asulam)
- Atrazine
- Axiom" (flufenacet + metribuzin)
- Banvel® SGF (dicamba)
- Basagran® (bentazon)
- Beacon[®] (primisulfuron-methyl)
- Bicep® (metolachlor + atrazine)
- Bladex⁶ (cyanazine)
 Bronate⁶ (bromoxynil) + MCPA)
- Bronco^é (alachlor + glyphosate)
- Buctril[®] (bromoxynil)
- Bullet® (alachior + atrazine)
- Canvas[®] (thifensulfuron + tribenuron + metsulfuron)
- Caparol[®] (prometryn)
- Celebrity[®] (dicamba + nicosulfuron)
- Crossbow[®](2,4-D + triclopyr)
- - 2.4-D)
- Cyclone® (paraguat)
- Dakota® (fenoxaprop + MCPA)
- DoublePlay[®]
- (acetochlor + EPTC) Dual[®] (metolachlor)
- Eradicane®(EPTC)
- Evik^a (ametryn)
- Exceed® (primisulfuren)
- + prosulfuron) Express[®] (thifensulfuron +
- tribenuron-methyl) Extrazine®II
- (cvanazine + atrazine)
- Fallow Master[®] (glyphosate + dicamba)
- Field Master[™] (acetochlor + atrazine
- + glyphosate) Finesse® (chlorsulfuron)
- + metsulfuron-methyl) Frontier[®]
- (dimethenamid)
- FulTime^{**} (acetochlor + atrazine)

- Garlon[®](triclopyr)
- Glean® (chlorsulfuron)
- Gramoxone® Extra (paraquat)
- Guardsman[®] (dimethenamid + atrazine)
- Harmony[®] Extra (thifensulfuron + tribenuron-methyl)
- Harness[®] (acetochlor)
 Harness[®] Xtra
- (acetochlor + atrazine)
- Hornet[™] (flumetsalam) + clopyralid)
- Karmex® (diuron)
- Kerb® (pronamide) Laddok® S-12 (bentazon + atrazine)
- Landmaster® BW (glyphosate + 2,4-D)
- · Lariat* (alachlor + atrazine)

- Lasso[®] (alachlor)
 Lexone[®] (metribuzin)
 Liberty[®] (glufosinate)
- Marksman[®]
- (dicamba + atrazine) MCPA
- OpTill[®] (dicamba +
- dimethenamid) Partner® (alachlor)

- Python^{¹⁴} (flumetsulam)
- Ramrod[®] (propachlor)
- Roundup Ultra
- (glyphosate)
- Roundup Últra RT (glyphosate)
- Sencor[®] (metribuzie)
- Spirit "primisulfutori + prosulfuron)
- Stinger[®] (clopyralid)
- Surpass[®] (acetochlor)
- Sutan[®] + (butylate)
- Tiller® (fenoxáprop-
- ethyl + MCPA + 2,4-D) TopNotch"
- (acetochlor)
- Tordon[®] 22K (picloram)
- **Touchdown®** (sulfosate)
- Tough® (pyridate) • 2,4-D

- - - Peak® (prosulfuron)
 Permit® (halosulfuron)
 - Princep^{ee}(simazine)
 - Prowl[®] (pendimethalin)

V. Restrictions and Limitations

 Maximum seasonal use rate: Refer to Table 4 for crop-specific maximum seasonal use rates. Do not exceed 64 fluid ounces of Clarity® herbicide (2 pounds acid equivalent) per acre, per year.

Preharvest Interval (PHI): Refer to section VI. Crop-Specific Information for preharvest intervals.

4 Restricted Entry Interval (REI): 24 hours

Crop Rotational Restrictions:

The interval between application and planting rotational crop is given below. Always exclude counting days when the ground is frozen. Planting at intervals less than specified below may result in crop injury. Moisture is essential for the degradation of this herbicide in soil. If dry weather prevails, use cultivation to allow herbicide contact with moist soil.

- Planting/replanting restrictions for Clarity applications of 24 fluid ounces per acre or less: No rotational cropping restrictions apply at 120 days or more following application. Additionally, for annual crop uses in this label including corn, cotton, sorghum, and soybean, follow the preplant use directions in section VI. Crop-Specific Information. For barley, oat, wheat, and other grass seedings, the interval between application and planting is 15 days per 8 fluid ounces per acre applied east of the Mississippi River and 22 days per 8 fluid ounces per acre west of the Mississippi River.

Planting/replanting restrictions for applications of more than 24 fluid ounces and up to 64 fluid ounces of Clarity per acre: Corn, sorghum, cotton (east of the Rocky Mountains) and all other crops grown in areas with 30" or more of annual rainfall may be planted 120 days or more

- after application. Barley, oat, wheat, and other grass seedings, may be planted if the interval from application to planting is 30 days per 16 fluid ounces per acre east of the Mississippi River and 45) days per 16 fluid ounces per acre west of the Mississippi River. For all other crops in areas with less than 30" of annual rainfall, the interval between application and planting is 180 days or more.
- Rainfast period: Rainfall or irrigation occurring within 4 hours after postemergence applications may reduce the effectiveness of Clarity.
- Stress: Do not apply to crops under stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, insects, or widely fluctuating temperatures as injury may result.
- Do not apply through any type of irrigation equipment. Do not treat irrigation ditches or water used for crop irrigation or domestic purposes.

Crop	Maximum Rate Per Acre Per Application	Maximum In-Crop Rate Per Acre Per Season	Livestock Grazing or Feeding	Aircraft Application Allowed
'įsparagus	16 fluid ounces	16 fluid ounces	Yes	Yes
Jarley, Fall Spring	8 fluid ounces 8 fluid ounces	12 fluid ounces 11 fluid ounces	Yes	Yès
Corn	16 fluid ounces	24 fluid ounces	Yes ²	Yes
Cotton	8 fluid ounces	8 fluid ounces	Yes	Yes
Fallow Ground	64 fluid ounces	64 fluid ounces	Yes	Yes
Grass grown for seed	64 fluid ounces	64 fluid ounces	Yes	Yes
Proso Millet	4 fluid ounces	4 fluid ounces	Yes	Yes
Pastureland	64 fluid ounces	64 fluid ounces	Yes	Yes
Oats	4 fluid ounces	4 fluid ounces	Yes	Yes
Sorghum	8 fluid ounces	16 fluid ounces	Yes	Yes
Soybean	64 fluid ounces	64 fluid ounces	Yes	Yes
Sugarcane	64 fluid ounces	64 fluid ounces	Yes	Yes
Turf	32 fluid ounces	32 fluid ounces	Yes	Yes
Wheat	8 fluid ounces	16 fluid ounces	Yes	Yes

Table 4. Crop-Specific Restrictions and Limitations'

ice the crop reaches the ensilage (milk) stage or later in maturity.

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VI. Crop-Specific Information

Asparagus

Apply **Clarity**[®] **herbicide** to emerged and actively growing weeds in 40-60 gallons of diluted spray per treated acre immediately after cutting the field, but at least 24 hours before the next cutting. Multiple applications may be made per growing season. If spray contacts emerged spears, crooking (twisting) of some spears may result. If such crooking occurs, discard affected spears.

Rates: Apply 8-16 fluid ounces of **Clarity** to control annual sowthistle, black mustard, Canada and Russian thistle, and redroot pigweed, (carelessweed). Apply 16 fluid ounces of **Clarity** to control common chickweed, field bindweed, nettleleaf goosefoot, and wild radish. Multiple applications may be made per growing season. Do not exceed a total of 16 fluid ounces of **Clarity** per treated acre, per crop year. Do not harvest prior to 24 hours after treatment. Do not use in the Coachella Valley of California.

Asparagus Tank Mixes

Apply 8-16 fluid ounces of **Clarity** with glyphosate (**Roundup® Ultra**) or 2,4-D to improve control of Canada thistle and field bindweed.

Between Crop Applications

PREPLANT DIRECTIONS (POSTHARVEST, FALLOW, CROP STUBBLE, SET-ASIDE) FOR BROADLEAF WEED CONTROL:

Clarity can be applied either postharvest in the fall, spring, or summer during the fallow period or to crop stubble/set-aside acres. Apply **Clarity** as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (postharvest) and before a killing frost or in the fallow cropland or crop stubble the following spring or summer.

See Crop Rotational Restrictions in section V. General Restrictions and Limitations for the recommended interval between application and planting to prevent crop injury.

Rates and Timings:

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Apply 4-64 fluid ounces of **Clarity** per acre. Refer to **Table 1** to determine use rates for specific targeted weed species. For best performance, apply **Clarity** when annual weeds are less than 6" tail, when biennial weeds are in the rosette stage and to perennial weed regrowth in late summer or fall following a mowing or tillage treatment. The most effective control of upright perennial broadleaf weeds such as Canada thistle and Jerusalem artichoke occurs if **Clarity** is applied when the majority of weeds have at least 4-6" of regrowth or for weeds such as field bindweed and hedge bindweed that are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds that develop from seed or underground plant parts such as rhizomes or bulblets, after the effective period for **Clarity**. For seedling control, a follow-up program or other cultural practices could be instituted. For small grain in-crop uses of **Clarity**, refer to the small grain section for details.

Between Crop Tank Mixes

In tank mixes with one or more of the following herbicides, apply 4-16 fluid ounces of **Clarity** per acre for control of annual weeds, or 16-64 fluid ounces of **Clarity** per acre for control of biennial and perennial weeds:

- Ally®
- Amber®
- Atrazine
- Curtail
- Cyclone[®]
- Fallow Master[®]
- Finesse[®]
- Glyphosate (Roundup Ultra[®])

Gramoxone®Extra

- Kerb[®]
- Landmaster[®] BW
- Sencor[®]
- Tordon® 22K
- Touchdown[®]
- 2,4-D

Corn (Field, Pop, Seed, and Silage)

Direct contact of **Clarity** with corn seed must be avoided. If corn seeds are less than 1.5" below the soil surface, delay application until corn has emerged. Applications of **Clarity** to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3-7 days. Cultivation should be delayed until after corn is growing normally to avoid breakage.

Corn may be harvested or grazed for feed once the crop has reached the ensilage (milk) stage or later in maturity.

Up to 2 applications of **Clarity** may be made during a growing season. Sequential applications must be separated by 2 weeks or more.

Do not apply **Clarity** to seed corn or popcorn without first verifying with your local seed corn company (supplier) the selectivity of **Clarity** on your inbred line or variety of popcorn. This precaution will help avoid potential injury of sensitive varieties.

Avoid using crop oil concentrates after crop emergence as crop injury may result. Use crop oil concentrates only in dry conditions when corn is less than 5" tall and when applying **Clarity** alone or tank mixed with atrazine.

Use of sprayable fluid fertilizer as the carrier is not recommended for applications of **Clarity** made after corn emergence.

Clarity is not registered for use on sweet corn.

PREPLANT AND PRE-EMERGENCE APPLICATION IN NO TILLAGE CORN:

Rates: Apply 16 fluid ounces of **Clarity** per acre on medium- or fine-textured soils containing 2.5% or greater organic matter. Use 8 fluid ounces of **Clarity** per acre on coarse soils (sand, loamy sand, and sandy loam) or medium- and fine-textured soils with less than 2.5% organic matter.

Timing: Clarity can be applied to emerged weeds before, during, or after planting a corn crop. When planting into a legume sod (e.g., alfalfa or clover), apply **Clarity** after 4-6" of regrowth has occurred.

PRE-EMERGENCE APPLICATION IN **CONVENTIONAL OR REDUCED TILLAGE CORN:**

Rates: Apply 16 fluid ounces of Clarity® herbicide per treated acre to medium- or fine-textured soils that contain 2.5% organic matter or more. Do not apply to

parse-textured soils (sand, loamy sand, or sandy am) or any soil with less than 2.5% organic matter until after corn emergence (see Early

Postemergence uses below).

Timing: Clarity may be applied after planting and prior to corn emergence. Pre-emergence application of Clarity does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if the application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g., drags, harrows) that concentrate treated soil over seed furrow, as seed damage could result.

Pre-emergence control of cocklebur, jimsonweed, and velvetleaf may be reduced if conditions such as low temperature or lack of soil moisture cause delayed or deep germination of weeds.

EARLY POSTEMERGENCE APPLICATION IN ALL TILLAGE SYSTEMS:

Pates: Apply 16 fluid ounces of Clarity per treated Fre. Reduce the rate to 8 fluid ounces of Clarity per treated acre for corn grown on coarse-textured soils (sand, loamy sand, and sandy loam).

Timing: Apply between corn emergence and the 5-Eaf stage or 8" tall, whichever occurs first. Refer to Late Postemergence Application if the sixth true leaf is emerging from whorl or the corn is greater than 8" tall.

LATE POSTEMERGENCE APPLICATION:

Rate: Apply 8 fluid ounces of Clarity per treated

ming: Apply Clarity from 8-36" tall corn or 15 days before tassel emergence, whichever comes first. For cest performance, apply when weeds are less than 3" ā.

Apply directed spray when corn leaves prevent proper spray coverage, sensitive crops are growing nearby, or tank mixing with 2,4-D

- Do not apply Clarity when soybeans are growing)arby if any of these conditions exist:
 - corn is more than 24" tall
 - soybean are more than 10" tall
 - soybean have begun to bloom

Corn Tank Mixes or Sequential Uses

When using tank mix or sequential applications with Clarity, always follow the companion product label to determine specific use rates by soil types, weed species, and weed or crop growth stage. In addition, follow precautions and restrictions including state and local use restrictions that may apply to specific products.

Apply Clarity prior to, in tank mix with, or after one or more of the following herbicides: Harness[®]Xtra

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Hornet"

Lasso*

OpTill®

Permit[®]

Princep*

Python"

Spirit"

Tough®

2.4-D1

Stinger

Surpass[®]

Sutan[®] + ²

TopNotch"

Touchdown[®]

Prowl[®]

Liberty^{®3}

Laddok® S-12

Marksman[®]

Roundup Ultra[®] ⁴

Roundup Ultra® RT

- Accent*1
- Atrazine
- Axiom[®]
- Banvel* 1 Beacon®1
- **Bicep**[®]
- Bladex*
- **Bullet**®
- Celebrity®1
- **Clarity**[®]
- DoublePlay®²
- Dual*
- **Eradicane**[®] Exceed^{®1}
- Extrazine® II
- Field Master*
- Frontier[®]
- **FulTime**[®]
- Gramoxone® Extra
- Guardsman*
 - Hamess*
- See Table 5 for additional limitations or restrictions that apply for tank mix or sequential use programs with these products ² sequential use only
- ³ use only on Liberty Link™ (glufosinate tolerant) corn hybrids.
- * includes postemergence use on Roundup Ready*
- (glyphosate tolerant) corn hybrids.

Table 5. Specific Guidelines for Tank Mixes or Sequential Use Programs

Tank Mix Partner	Rate Per Acre
Accent or Beacon	When tank mixing, applications immediately following extreme day or night temperature fluctuations or applications when daytime temperatures do not exceed 50° F may result in decreased weed control or crop injury. Delay application until the temperatures warm and both weeds and crop resume normal growth.
2,4-D	To provide maximum crop safety after corn emergence, use this tank mix only after corn is greater than 8" tall and when application can be made with drcp pipes that direct spray beneath corn leaves and away from the whorl of the corn. The maximum rate of 2,4-D recommended in this tank mix is 0.25 pints per acre (0.125 pounds of acid equivalent per acre).
Banvel, Celebrity, Clarity, Marksman, or OpTill	Tank mixes with these products that contain dicamba must not exceed a total combined rate of 0.50 pounds of dicamba acid equivalent per acre (0.25 pound on coarse-textured soils or on any soil when corn is greater than 8" tall). Sequential applications of these products must be separated by a minimum of 2 weeks (unless the combined rate is less than 0.5 pounds of dicamba acid equivalent and corn is 8" tall or less) and must not exceed a combined total of 0.75 pounds dicamba acid equivalent per acre for in-crop use.
Exceed, Spirit, Stinger, Hornet, or Permit	For improved control of velvetleaf, tank mix 0.25-0.5 ounce of Exceed, 0.5 ounce of Spirit, or 0.17-0.33 ounce Permit per acre with Clarity. For improved control of Canada thistle, Stinger at 1.5-3 fluid ounces per acre or Hornet at 0.6-1.2 ounces per acre may be tank mixed with Clarity. Use the higher rate in the range for heavier infestations of these weeds.

Cotton

PREPLANT APPLICATION:

Apply up to 8 fluid ounces of **Clarity**[®] herbicide per acre to control emerged broadleaf weeds prior to planting cotton in conventional or conservation tillage systems.

For best performance, apply **Clarity** when weeds are in the 2-4 leaf stage and rosettes are less than 2" across.

Following application of **Clarity** and a minimum accumulation of 1" of rainfall or overhead irrigation, a waiting interval of 21 days is required per 8 fluid ounces per acre or less. These intervals must be observed prior to planting cotton.

Do not apply preplant to cotton west of the Rockies. Do not make **Clarity** preplant applications to cotton in geographic areas with average annual rainfall less than 25".

If applying a spring preplant treatment following application of a fall preplant (postharvest) treatment, then the combination of both treatments may not exceed 2 pounds acid equivalent per acre.

Cotton Tank Mixes

For control of grasses or additional broadleaf weeds, Clarity may be tank mixed with Bladex[®], Caparol[®], Gramoxone[®] Extra, and Roundup Ultra[®] RT herbicides.

Grass Grown for Seed

Apply 8-16 fluid ounces of **Clarity** per treated acre on seedling grass after the crop reaches the 3-5 leaf stage. Apply up to 64 fluid ounces of **Clarity** on wellestablished perennial grass. For best performance, apply **Clarity** when weeds are in the 2-4 leaf stage and rosettes are less than 2" across. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth.

To suppress annual grasses such as brome (downy and ripgut), rattail fescue, and windgrass, apply up to 64 fluid ounces of **Clarity** per treated acre in the fall or late summer after harvest and burning of established grass seed crops. Applications should be made immediately following the first irrigation when the soil is moist and before weeds have more than 2 leaves.

Do not apply **Clarity** after the grass seed crop begins to joint.

Refer to the **Pasture, Hay, Rangeland, and General Farmstead** section for grazing and feeding restrictions.

Grass Seed Tank Mixes

Clarity may be applied in tank mixes with one or more of the following herbicides:

- Buctril®
- Curtail®
- Express[®]
- Karmex[®]
- MCPA amine
- Sencor[®]
- Stinger[®]
- •2,4-D amine or ester

Proso Millet

For use only within Colorado, Nebraska, North Dakota, South Dakota, and Wyoming.

Clarity combined with 2,4-D will provide control or suppression of the annual broadleaf weeds listed in **Table 1**.

Apply 4 ounces of **Clarity** with 0.375 pounds a.i. of 2,4-D. Apply the tank mix of **Clarity** + 2,4-D as a broadcast or spot treatment to emerged and actively growing weeds and when proso millet is in the 2-5 leaf stage. Use directions for 2,4-D products vary with manufacturers. Refer to a 2,4-D product with labeling consistent with the crop stage timing for **Clarity**. Some types of proso millet may be affected adversely by a tank mix of **Clarity** + 2,4-D.

Do not apply unless possible proso millet crop injury will be acceptable.

Restrictions for proso millet that is grazed or cut for hay are indicated in **Table 6** in **Pasture**, **Hay**, **Rangeland**, and **General Farmstead** section of this label.

Pasture, Hay, Rangeland, and General Farmstead (noncropland)

Clarity is recommended for use on pasture, hay, rangeland, and general farmstead (non-cropland) (including fencerows and non-irrigation ditchbanks) for control or suppression of broadleaf weed and brush species listed in **Table 1**.

Clarity may also be applied to non-cropland areas to control broadleaf weeds in noxious weed control programs, districts, or areas including broadcast or spot treatment of roadsides and highways, utilities, railroad, and pipeline rights-of-way. Noxious weeds must be recognized at the state level, but programs may be administered at state, county, or other level. **Clarity** uses described in this section also pertain to small grains (forage sorghum, rye, sudangrass, or wheat) grown for pasture use only. Some perennial weeds may be controlled with lower rates of either **Clarity** or **Clarity** plus 2,4-D (refer to **Table 2**).

Rates and Timings

Refer to **Table 2** for rate selection based on targeted weed or brush species. Some weed species will require tank mixes for adequate control. Rates above 32 fluid ounces of **Clarity** per acre are for spot treatments only. Do not broadcast apply more than 32 fluid ounces per acre. Retreatments may be made as needed; however, do not exceed a total of 32 fluid ounces of **Clarity** per treated acre during a growing season.

Crop-Specific Restrictions and Limitations

Do not apply more than 16 fluid ounces of **Clarity** per acre to small grains grown for pasture. Newly seeded areas may be severely injured if more than 16 fluid ounces of **Clarity** is applied per acre. Established grass crops growing under stress can exhibit various injury symptoms that may be more pronounced if herbicides are applied. Bentgrass, carpetgrass, buffalograss, and St. Augustinegrass may be injured if more than 16 fluid ounces of **Clarity** is applied per acre. Usually colonial bentgrasses are more tolerant than creeping types. Velvetgrasses are most easily injured. Treatments will kill or injure alfalfa, clovers, lespedeza, wild winter peas, vetch, and other legumes. Table 6 lists the timing restrictions for grazing or harvesting hay from treated fields. There are no grazing restrictions for animals other than lactating dairy animals.

Table 6. Timing Restrictions for Lactating Dairy himals Following Treatment

Clarity Rate per	Days Before	Days Before
Treated Acre	Grazing	Hay Harvest
Up to 1 pint	7 days	37 days
Up to 2 pints	21 days	51 days
Up to 4 pints	40 days	70 days

Clarity* herbicide can be applied using water, oil in water emulsions including invert systems, or sprayable fluid fertilizer as a carrier (refer to the Compatibility Test for Mix Components).

To prepare oil in water emulsions, half-fill spray tank with water, then add the appropriate amount of emulsifier. With continuous agitation, slowly add the nerbicide and then the oil (such as diesel oil or fuel oil) or a premix of oil plus additional emulsifier to spray tank. Complete filling of spray tank with water. Maintain vigorous agitation during spray operation to prevent oil and water from forming separate layers.

larity may be applied broadcast using either ground or aerial application equipment.

Aerial Application:

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• Spray Volume: Use 2-40 gallons of diluted spray per treated acre in a water-based carrier.

Ground Application:

- Spray Volume: Use 3-600 gallons of diluted spray per treated acre. The volume of spray applied will depend on the height, density, and type of weeds or brush being treated and on the type of equipment being used.
- Spot Treatments: Clarity may be applied to individual clumps or small areas of undesirable vegetation using handgun or similar types of application equipment. Apply diluted sprays to allow complete wetting (up to runoff) of foliage and stems.

Cut Surface Treatments:

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Clarity may be applied as a out surface treatment for ontrol of unwanted trees and prevention of sprouts)cut trees.

Rate: Mix 1 part Clarity with 1-3 parts water to reate the application solution. Use the lower dilution rate when treating difficult-to-control species.

- For Frill or Girdle Treatments: Make a continuous cut or a series of overlapping cuts using an axe to girdle tree trunk. Spray or paint the cut surface with the solution.
- For Stump Treatments: Spray or paint freshly cut surface with the water mix. The area adjacent to the bark should be thoroughly wet.

Note: For more rapid foliar effects, 2,4-D may be added to the solution.

Applications For Control of Dormant Multiflora Rose: Clarity can be applied when plants are dormant as an undiluted spot treatment directly to the soil or as a Lo-Oil basal bark treatment using an oilwater emulsion solution.

 Spot treatments: Spot treatment applications of Clarity should be applied directly to the soil as close as possible to the root crown but within 6-8" of the crown. On sloping terrain, apply Clarity to

the uphill side of the crown. Do not apply when

snow or water prevents applying Clarity directly to the soil. The use rate of Clarity depends on the canopy diameter of the multiflora rose. Examples: Use 0.25, 1.0, or 2.35 fluid ounces of Clarity respectively, for 5, 10, or 15 feet canopy diameters.

 Lo-Oil basal bark treatments: For Lo-Oil basal bark treatments, apply Clarity to the basal stem region from the ground line to a height of 12-18". Spray until runoff, with special emphasis on covering the root crown. For best results, apply Clarity when plants are dormant. Do not apply after bud break or when plants are showing signs of active growth. Do not apply when snow or water prevents applying **Clarity** to the ground line. To prepare approximately 2 gallons of a Lo-Oil spray

solution:

- 1) Combine 1.5 gallons of water, 1 ounce of emulsifier, 16 fluid ounces of Clarity, and 2.5 pints of No. 2 diesel fuel,
- 2) Adjust the amounts of materials used proportionately to the amount of final spray solution desired.

Do not exceed 8 gallons of spray solution mix applied per acre, per year.

Pasture Tank Mixes

Clarity may be applied in tank mixes with one or more of the following herbicides:

- Ally[®]
- Crossbow[®]
- Curtail[®]
 - **Garlon[®]**
- Roundup Ultra^b RT
- Stinger
- Tordon[®] 22K 2,4-D
- Gramoxone[®] Extra

Conservation Reserve Program (CRP)

Clarity is recommended for use on both newly seeded and established grasses grown in Conservation Reserve or federal Set-Aside Programs. Treatments of Clarity will injure or may kill alfalfa, clovers, lespedeza, wild winter peas, vetch, and other legumes.

NEWLY SEEDED AREAS

Clarity may be applied either preplant or postemergence to newly seeded grasses or small grains such as barley, oats, rye, sudangrass, wheat, or other grain species grown as a cover crop. Postemergence applications may be made after seedling grasses exceed the 3-leaf stage. Rates of Clarity greater than 16 fluid ounces per treated acre may severely injure newly seeded grasses. Preplant applications may injure new seedings if the interval between application and grass planting is less than 45 days per 16 fluid ounces of Clarity applied per treated acre west of the Mississippi River or 20 days per 16 fluid ounces applied east of the Mississippi River.

ESTABLISHED GRASS STANDS

Established grass stands are perennial grasses planted one or more seasons prior to treatment. Certain species (bentgrass, carpetgrass, smooth brome, buffalograss, or St. Augustinegrass) may be injured when treated with more than 16 fluid ounces of Clarity per treated acre.

When applied at recommended rates, **Clarity** will control many annual and biennial weeds and provide control or suppression of many perennial weeds.

Rates and Timings

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Apply 4-64 fluid ounces of **Clarity** per acre. Refer to **Table 2** for rates based on target weed species. **Clarity** may be tank mixed or applied sequentially with other products labeled for use in Conservation Reserve Programs such as atrazine, **Cyclone**[®], glyphosate (**Roundup Ultra**[®]), **Gramoxone**[®] **Extra**, **Touchdown**[®], or 2,4-D.

Retreatments may be made as needed; however, do not exceed a total of 64 fluid ounces (4 pints) of **Clarity** per acre.

Small Grains not underseeded to legumes (fall- and spring-seeded barley, oat, and wheat)

Clarity[®] herbicide combinations with listed tank mix partners will provide control or suppression of the annual broadleaf weeds listed in **Table 1**. For improved control of listed weeds, tank mix **Clarity** with one or more of the herbicides listed. **Clarity** used in a tank mix with other herbicides offers the best spectrum of weed control and herbicide tolerant or resistant weed management. Refer to the specific section crop for **Clarity** application rate and timing.

For applications prior to weed emergence or when sulfonylurea-resistant weeds are present or suspected, tank mix a minimum of 3 fluid ounces of **Clarity** per treated acre with a non-sulfonylurea herbicide such as 2,4-D or MCPA. Tank mixing **Clarity** with these products will offer more consistent control of sulfonylurea-resistant weeds.

Additives: When tank mixing Clarity with sulfonylurea herbicides (Ally", Amber", Canvas", Express", Finesse", Glean", Harmony" Extra, and Peak"), use 1-4 pints of an agriculturally approved surfactant (containing at least 80% active ingredient) per 100 galons of spray or not more than 0.25-0.000 by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix or when treating more mature and difficult to control weeds or dense vegetative growth.

Refer to the specific crop sections below for use rates. When treating difficult to control weeds such as kochia, wild buckwheat, cow cockle, prostrate knotweed, Russian thistle, and prickly lettuce or when dense vegetative growth occurs, use the 3-4 fluid ounces of **Clarity** per acre.

Timings: Apply **Clarity** before, during, or after planting small grains. See specific small grain crop uses below for maximum crop stage. For best performance, apply **Clarity** when weeds are in the 2-3 leaf stage and rosettes are less than 2" across. Applying **Clarity** to small grains during periods of rapid growth may result in crop leaning. This condition is temporary and will not reduce crop yields. Applications to small grains may be made with aerial applications with 1 gallon of water or more per acre. Where dense foliage is present, 2-3 gallons of water per acre should be used.

Restrictions for small grain areas that are grazed or cut for hay are indicated in **Table 6** in **Pasture**, **Hay**, **Rangeland**, and **General Farmstead** section of this label.

Small Grains: Barley (fall- and spring-seeded)

EARLY SEASON APPLICATIONS:

Apply 2-4 fluid ounces of **Clarity** to fall-seeded barley prior to the jointing stage. Apply 2-3 fluid ounces of **Clarity** before spring-seeded barley exceeds the 4leaf stage.

Note: For spring barley varieties that are seeded during the winter months or later, follow the rates and timings given for spring-seeded barley. Do not tank mix **Clarity** with 2,4-D in early season applications on spring-seeded barley.

PREHARVEST APPLICATIONS:

Clarity can be used to control weeds that may interfere with harvest of fall- and spring-seeded barley. Apply 8 fluid ounces of **Clarity** per acre as a broadcast or spot treatment to annual broadleaf weeds when barley is in the hard dough stage and the green color is gone from the nodes (joints) of the stem. Best results will be obtained if application can be made when weeds are actively growing but before weeds canopy.

A waiting interval of 7 days is required before harvest. Do not use preharvest-treated barley for seed unless a germination test is performed on the seed with an acceptable result of 95% germination or better. For control of additional broadleaf weeds or grasses, **Clarity** may be tank mixed with other herbicides, such as 2,4-D, that are labeled for preharvest uses in barley.

Do not make preharvest applications in California.

Barley Tank Mixes

Table 7.

Tank Mix Partner	Rate Per Acre
Ally	1 0.05-0.1 cunce
Amber	0.14-0.28 ounce
Bronate*	0.75-1.5 pints
Buctril	1-1.5 pints
Canvas ³	0.2-0.4 ounce
Express	0.083-0.167 ounce'
Finesse [*]	0.167-0.33 ounce
Glean'	0.167 ounce'
Harmony [®] Extra	0.167-0.33 ounce'
MCPA amine or ester	8-12 fluid ounces ² (0.25-0.375 pound a.e.)
Metribuzin (Sencor [*] , Lexone ^s)	0.125-0.47 pound a.i.
2,4-D amine or ester ^{2,3}	8 fluid ounces (0.25 pound a.e.)

 Do not use low rates of sulfonylureas (Ally, Amber, Canvas, Express, Finesse, Glean, and Harmony Extra) on more mature weeds or on dense vegetative growth.
 When using formulations other than 4 pounds per gallon

use pounds of a.e. per acre listed. ³ This tank mix is for fall-seeded barley only

- Small Grains: Oat (fall- and spring-seeded)

EARLY SEASON APPLICATIONS:

* oply 2-4 fluid ounces of **Clarity*** **herbicide** per acre fail-seeded oat prior to the jointing stage. Apply 2-4 indid ounces of **Clarity** before spring-seeded oat exceed the 5-leaf stage.

Clarity may be tank mixed with MCPA amine or ester for applications in oat.

Do not tank mix Clarity with 2,4-D in oat.

Small Grains: Wheat (fall- and spring-seeded)

EARLY SEASON APPLICATIONS:

Apply 2-4 fluid ounces of **Clarity** to wheat unless using one of the fall-seeded wheat specific programs below.

Early season applications to fall-seeded wheat must be made prior to the jointing stage.

Early season applications to spring-seeded wheat must be made before wheat reaches the 6-leaf stage. Farly developing wheat varieties such as TAM 107,

adison, or Wakefield must receive application between early tillering and the jointing stage. Care shou'd be taken in staging these varieties to be certain that the application occurs prior to the jointing stage.

To improve control of Russian thistle, flixweed, gromwell, or mayweed, add 2,4-D amine or ester to a tank mix with one of the following herbicides: Ally, Amber, Canvas, Express, Finesse, Glean, Harmony Extra, or Peak.

SPECIFIC USE PROGRAMS FOR FALL-SEEDED

Litraty may be used at 6 fluid ounces on fall-seeded wheat in Western Oregon as a spring application only. In Colorado, Kansas, New Mexico, Oklahoma, and Texas, up to 8 fluid ounces of **Clarity** may be applied on fall-seeded wheat after it exceeds the 3-leaf stage for suppression of perennial weeds, such as field throwseed. Applications may be made in the fall

Why a frost but before a killing freeze. **Clarity** by be tank mixed with 2,4-D amine at 8 fluid ounces after wheat begins to tiller. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For fall applications only, do not use if the potential for crop injury is not acceptable.

PREHARVEST APPLICATIONS:

Clarity can be used to control weeds that may interfere with harvest of wheat. Apply 8 fluid ounces **Clarity** per acre as a broadcast or spot treatment to annual broadleaf weeds when wheat is in the hard dough stage and the green color is gone from the nodes (joints) of the stem. Best results will be obtained if application can be made when weeds are actively growing but before weeds canopy. A waiting interval of 7 days is required before harvest. Do not use preharvest-treated wheat for seed unless a germination test is performed on the seed with an acceptable result of 95% germination or better. For control of additional broadleaf weeds or grasses, **Clarity** may be tank mixed with other herbicides such

Ally, Roundup[®] Ultra, and 2,4-D, not make preharvest applications in California.

Wheat Tank Mixes

Tank Mix Partner	Rate Per Acre
Amber®	0.14-0.28 ounce'
Bronate®	0.75-1.5 pints
Buctril®	1-1.5 pints
Canvas [®]	0.2-0.4 ounce'
Curtail®	2-2.67 pints
Dakota* 2	16 fluid ounces
Express*	0.083-0.167 ounce'
Finesse*	0.167-0.33 ounce'
Glean®	0.167 ounce'
Harmony [®] Extra	0.167-0.33 ounce1
Karmex ^{® 3}	0.5-1.5 pounds
Glyphosate (Roundup Ultra® RT)*	12-16 fluid ounces
MCPA amine or ester ⁵	8-12 fluid ounces (0.25-0.375 pound a.e.)
Metribuzin ³ (Sencor ³ , Lexone [®])	0.25-0.375 pound a.i.
Peak® '	0.25-0.38 ounce
Stinger [®]	4-5.33 fluid ounces
Tiller®2	1-1.7 pints
2,4-D amine or ester ⁵	8-12 fluid ounces (0.25-0.375 pound a.e.)

Do not use low rates of sulfonylurea herbicides, such as Ally, Amber, Canvas, Express, Finesse, Glean, Harmony Extra, and Peak on more mature weeds or on dense vegetative growth.

To not use **Clarity** as a tank mix treatment with **Dakota** or **Tiller** on Durum wheat. Do not tank mix with **Tiller** it wild cat is the target weed.

Tank mixes with **Karmex** and metribuzin are for use in fall-seeded wheat only.

A tank mix of up to 4 fluid cunces of **Clarity** with **Roundup Ultra RT** or any glyphosate formulation labeled for use as a preplant application to small grains may be applied with no waiting period prior to planting. Up to 32 fluid ounces of (1.0 pound a.e.) may be used on fall-seeded wheat if crop injury is acceptable. When using formulations other than 4 pounds per gallon, use the pounds of a.e. per acre listed.

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Sorghum

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Clarity[®] herbicide may be applied preplant, postemergence, or preharvest in sorghum to control many annual broadleaf weeds and to reduce competition from established perennial broadleaf weeds as well as control their seedlings. Do not graze or feed treated sorghum forage or silage prior to mature grain stage. If sorghum is grown for pasture or hay, refer to **Pasture, Hay, Rangeland,** and **General Farmstead** section of this label for

specific grazing and feeding restrictions. Do not apply **Clarity** to sorghum grown for seed production.

PREPLANT APPLICATION:

Up to 8 fluid ounces of **Clarity** may be applied per acre if applied at least 15 days before sorghum planting.

POSTEMERGENCE APPLICATION:

Up to 8 fluid ounces of **Clarity** per acre may be applied after sorghum is in the spike stage (all sorghum emerged) but before sorghum is 15" tall. For best performance, apply **Clarity** when the sorghum crop is in the 3-5 leaf stage and weeds are small (less than 3" tall). Use drop pipes (drop nozzles) if sorghum is taller than 8". Keep the spray off the sorghum leaves and out of the whorl to reduce the likelihood of crop injury and to improve spray coverage of weed foliage. Applying **Clarity** to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling of leaves. These effects are usually outgrown within 10-14 days.

Preharvest uses in Texas and Oklahoma only: Up to 8 fluid ounces of **Clarity** per acre may be applied for weed suppression any time after the sorghum has reached the soft dough stage. An agriculturally approved surfactant may be used to improve performance. For aerial applications, use at least 2 gallons of water-based carrier per treated acre. Delay harvest until 30 days after a oreharvest treatment.

SPLIT APPLICATION:

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Clarity may be applied in split applications: oreplant followed by pasternergence or preharvest; or postemergence followed by preharvest. Do not exceed 8 fluid ounces per acre, per application or a total of 16 ounces per acre, per season.

Sorghum Tank Mixes and Sequential Treatments

Clarity may be applied prior to, in a tank mix with, or after one or more of the following herbicides:

- Atrazine
- Basagran[®]
- Bicep®
- Buctril®
- Cyclone®
- Dual®
- Fallow Master[®]
- Frontier®
- Gramoxone® Extra
- Guardsman[®]
 Laddok[®] S-12
- Landmaster[®]
- Lasso®
- Peak[®]
- Permit®
- Ramrod®
- Namiou Devie doie E
- Roundup Ultra[®]

Soybean

PREPLANT APPLICATIONS:

Apply 4-16 fluid ounces of **Clarity** per acre to control emerged broadleaf weeds prior to planting soybeans. Do not exceed 16 fluid ounces of **Clarity** per acre in a spring application prior to planting soybeans. Following application of **Clarity** and a minimum accumulation of 1" rainfall or overhead irrigation, a waiting interval of 14 days is required for 8 fluid ounces per acre or less, and 28 days for 16 fluid ounces per acre. These intervals must be observed prior to planting soybeans or crop injury may occur. Do not make **Clarity** preplant applications to soybeans in geographic areas with average annual rainfall less than 25".

PREHARVEST APPLICATIONS:

Clarity can be used to control many annual and perennial broadleaf weeds and control or suppress many biennial and perennial broadleaf weeds in soybean prior to harvest (refer to **Table 1**). Apply 8-64 fluid ounces of **Clarity** per acre as a broadcast or spot treatment to emerged and actively growing weeds after soybean pods have reached mature brown color and at least 75% leaf drop has occurred. Soybeans may be harvested 14 days or more after a preharvest application.

Treatments may not kill weeds that develop from seed or underground plant parts, such as rhizomes or bulblets, after the effective period for **Clarity**. For seedling control, a follow-up program or other cultural practice could be instituted.

Do not use preharvest-treated soybean for seed unless a germination test is performed on the seed with an acceptable result of 95% germination or better.

Do not feed soybean fodder or hay following a preharvest application of **Clarity**. Do not make preharvest applications in California.

Soybean Tank Mixes

PREPLANT TANK MIXES:

Clarity may be tank mixed with other herbicides registered for early preplant use in soybeans including burndown herbicides such as glyphosate (**Roundup Ultra**) and 2,4-D or residual herbicides such as **Frontier** or **Dual**.

PREHARVEST TANK MIXES:

Clarity may be tank mixed with other herbicides registered for preharvest use in soybeans such as glyphosate (**Roundup Ultra**) and **Gramoxone Extra**.

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Sugarcane

Apply **Clarity**[®] **herbicide** for control of annual, biennial, or perennial broadleaf weeds listed in **Table 1**. Apply 8-24 fluid ounces of **Clarity** per acre for

Introl of annual weeds, 16-32 fluid ounces for Introl of biennial weeds, and 32-64 fluid ounces for control or suppression of perennial weeds. Use the higher level of listed rate ranges when treating dense vegetative growth.

Retreatments may be made as needed, however, do not exceed a total of 64 fluid ounces of **Clarity** per treated acre during a growing season.

Timing: Clarity may be applied to sugarcane any time after weeds have emerged, but before the closein stage of sugarcane. Applications of 32-64 fluid ounces of **Clarity** per acre made over the top of actively growing sugarcane may result in crop injury. When possible, direct the spray beneath the sugarcane canopy to minimize the likelihood of crop injury. Using directed sprays will also help maximize the spray coverage of weed foliage.

Sugarcane Tank Mixes

Jarity may be tank mixed with other products registered for use in sugarcane such as **Asulox**[®], atrazine, **Evik**[®], and 2,4-D.

Turf and Lawns

For use in general farmstead (noncropland) and sod farms, apply 3-32 fluid ounces of **Clarity** per acre to control or suppress growth of many annual, biennial, and some perennial broadleaf weeds commonly found in turf. **Clarity** will also suppress many other listed perennial broadleaf weeds and woody brush and vine species. Refer to **Table 2** for rate recommendations based on targeted weed or brush species and growth stage. Some weed species will require tank mixes for adequate control. Repeat treatments may be made as needed, however, do not exceed 32 fluid ounces of **Clarity** per acre, per growing season.

Apply 30-200 gallons of diluted spray per treated acre (3-17 quarts of water per 1,000 square feet), depending on density or height of weeds treated and on the type of equipment used.

To avoid injury to newly seeded grasses, delay application of **Clarity** until after the second mowing. Furthermore, applying more than 16 fluid ounces of **Clarity** per treated acre may cause noticeable stunting or discoloration of sensitive grass species such as bentgrass, carpetgrass, buffalograss, and St. Augustinegrass.

In areas where roots of sensitive plants extend, do not apply more than 4 fluid ounces of **Clarity** per treated acre on coarse-textured (sandy-type) soils, or in excess of 8 fluid ounces per treated acre on finetextured soils. Do not make repeat applications in these areas for 30 days and until previous applications of **Clarity** have been activated in the soil by rain or irrigation.

Turf and Lawn Tank Mixes

Apply 3.2-8 fluid ounces of **Clarity** per acre in a tank mix with one of the products in **Table 9** at the rates listed. Use the higher rates when treating established weeds.

Table 9.

Tank Mix Partner	Rate Per Acre	
bromoxynil (Buctril®)	0.375-0.5 pound a.i.	
MCPA	0.5-1.5 pounds a.e.	
МСРР	0.5-1.5 pounds a.e.	
2,4-D	0.5-1.5 pounds a.e.	

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Pests listed in this label:

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Common Name	Scientific N
ANNIIAIS	
Alkanet	l íthospermum arv
Smaranth Palmer	Amaranthus palm
Powell	Amaranthus powe
Spiny	Amaranthus spind
Aster Slender	Aster subulatus
Bedstraw. Catchweed	Galium aparine
Beggarweed, Florida	Desmodium tortu
Broomweed, Common	Gutierezia dracuni
Buckwheat, Tartary	Fagopyrum tatariu
, Wild	Ројудопит сопчи
Buffalobur	Solanum rostratur
Burclover, California	Medicago polymo
Burcucumber	Sicyos angulatus
Buttercup, Corn	Ranunculus arven
, Creeping	Ranunculus repen
, Houghseeu Mostern Field	Ranunculus munc
Carpetweed	Mulluno verticillata
Catchfly Nightflowering	Silene nortiflorum
Chamomile Corn	Anthemis arvensis
Chervil Bur	Anthriscus caucal
Chickweed, Common	Stellaria media
Clovers	Trifolium spp.
lockle. Corn	Agrostemma githa
Cow	Vaccaria pyramida
White	Melandrium albun
Cocklebur, Common	Xanthium struman
Copperleaf, Hophornbeam	Acalypha ostryifoli
Cornflower (Bachelor Button)	Centaurea cyanus
Droton, Tropic	Croton glandiola
, Woolly	Croton capitatus
_laisy, English	Beilis perennis
_ragonhead, American	Dracoceonaium p
	Camplina microna
-alseliax, Smallseeu	Erigeron anculus
ixwood	Descurainia sonhi
	Fumaria officinalis
Frospioot Nettieleaf	Chenopodium mu
amonettle	Galeopsis tetrahit
	Lamium amploxica
acob's Ladder	Polemonium caeru
msonweed	Datura stratium
 nawel (German Moss) 	Scleranthus annuc
Knotweed, Prostrate	Polygonum avicul
ochia	Kochia scoparia
_adysthumb	Polygonum persic
_ambsquarters, Common	Chenopodium aib
_ettuce, Miners	Lactuca sorriola
, PIICKIY	Malva noclocta
Vonico	Hibiscus trionum
, venice Harastail (Harsawaad)	Hinnurus vulgaris
Manweed	Anthemis cotula
Morningolory, Iwleaf	loomea hederacea
Tall	lpomea purpurea
Mustard, Black	Brassica nigra
, Blue	Chorispora tenella
, Tansy	Descurainia pinna
, Treacle	Erysimum repandi
, Tumble	Sisymbriumm altis
, Wild	Sinapis arvensis
Nightshade, Black	Solanum nigrum
, Cutleat	Solanum tritlorum
Fennycress, Field	nniaspi arvense
(ranweeu, rienunweeu, Stinkweed)	

Name vense neri rellii osus iosum culoides um ulvulus im orpha nsis ns catus dentalis а lis ago lata n rium lia oarviflorum ta arpa ia irale aule uleum us lare caria bum ta a ata lum ssimum

Common Name	Scientific Name
Pepperweed, Virginia	Leoidium virginicum
(Peppergrass)	
Pigweed, Prostrate	Amaranthus blitoides
, Redroot	Amaranthus retroflexus
(Carelessweed)	
Smooth	Amaranthus hybridus
Tumble	Amaranthus albus
Pineappleweed	Matricaria matricarioides
Poorioe	Diodia teres
Puncturevine	Tribulus terrestris
Purslane, Common	Portulaca oleracea
Pusley, Florida	Richardia scabra
Radish, Wild	Raphanus raphanistrum
Ragweed, Common	Ambrosia artemisiifolia
, Giant (Buffaloweed)	Ambrosia trifida
Lance-Leaf	Ambrosia bidentata
Ragwort, Tansy	Senecia iacobea
Ročket, London	Sisymbríum irio
, Yellow	Barbarea vulgaris
Rubberweed, Bitter	Hymenoxys oderata
Salsify	Tragopogon porrifolius
Sesbania, Hemp	Sesbania exaltata
Shepherdspurse	Capsella bursa-pastoris
Sicklepod	Cassia obtusifolia
Sida, Prickly (Teaweed)	Sida spinosa
Smartweed, Green	Polygonum scabrum
Pennsylvania	Polygonum pensylvanicum
Sneezeweed, Bitter	Helenium amurum
Sowthistle, Annual	Sonchus oleraceus
, Spiny	Sonchus asper
Spikeweed, Common	Hemizonia pungens
Spurge, Prostrate	Euphorbia humistrata
Spurry, Corn	Spergula arvensis
Starbur, Bristly	Acanthospermum hispidum
Starwort, Little	Stellaria graminea
Sumpweed, Rough	Iva cilliata
Sunflower, Common (Wild)	Helianthus annuus
Thistle, Russian	Salsola iberica
J Velvetleaf	Abutilon teophrasti
Waterhemp, Common	Amaranthus rudis
, Tatl	Amaranthus tuberculatus
Waterprimrose, Winged	Ludwigia decurrens
Wormwood	Artemisia annua
DIEINNIALS	Aroti un minuo
DUIDOCK, COMMON	Arctium minus
Carrot, Wild (Queen Anne's	Daucus carota
Lace)	Molandrium altrum
Lockie, white	Nelenarium album
Coronium Corolina	Cenomera Diennis
Cremunt, Carolina	Geranium carolinianum
Knapwood Diffuse	Canteuros diffuso
Coottod	Cantaurea unusa
) , Spoiled	Cantaurea maculosa Malva baraalia
Diantain Bractod	Diantago aristato
Padwort Tancy	Concolo Incohece
Ctarthistle Vallour	Seneciu jacuuaea
Supertelever	
Toopol	Dieneous seture
Thistle Rull	Dipsacus sauvus
Musk	Cirsium vuigare
, IVIUSK Diumolono	Carduus nutaris
, rumeless	Carduus acarimoides
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Pests listed in this label:	
Common Name	Scientific Name
PERENNIALS	
Alfalfa	Medicago sativa
Artichoke, Jerusalem	Helianthus tuberosus
Aster Spiny	Aster spinosus
Whiteheath	Aster pilosus
Bedstraw, Smooth	Gallium mollugo
Bindweed Field	Convolvulus arvensis
Hedne	Calvstegia sepium
Blueweed Texas	Helianthus ciliaris
Bursage Woollyleaf (Bur	Ambrosia oravi
Bagweed Povertweed	, , , , , , , , , , , , , , , , , , ,
Buttercup, Tall	Rupanculus acris
Campion Bladder	Silene vulgaris
Chickweed Field	Cerastium arvense
Mouseoar	Cerastium vulgatum
chicony	Cichorium intybus
Clover Hen	Trifoleum aureum
Dondelien	Tarayacum officinalo
Danuellon, Dock Broadloof (Bittordock)	Rumer obtusifolius
Dock, Broadlear (Bitterdock)	Rumex crispus
, Curry Dachana, Hama	Appevnum cannabinum
Dogballe, Hellip	Funstorium canillifolium
Earp Dreaker	Discridium aquilinum
Carlia Mild	Allivin vincele
Garric, who	Solidado conodonsio
Goldenrod, Canada	Solidago missourionais
, IVIISSOUTI	Isocoma coronopifolia
Goldenweed, Common	Hieracium son
Haphana Block	Hieracium spp. Hyoscyamus piger
Herioane, Diack	Solanum carolinioneo
Iropwood	Vernonia spn
Knapwood Black	Centaurea niora
Russian	Centaurea renens
Millwood Climbing	Sarcostemma cynanchoides
Common	Asclenias svriaca
Hopewine	Ampelamus albidus
Western Whorled	Asclenias subverticillata
Nettle Stinging	Urtica dioica
Nightshade Silverleaf White	Solanum elaeagnifolium
Howenettle)	
Onion Wild	Allium canadense
Plantain, Broadleaf	Plantago maior
Buckhorn	Plantago lanceolata
Pokeweed	Phytolacea americana
Radweed, W-stern	Ambros (chistachu-
Redvine	Brunnichia ovata
Sericia Lespedeza	Sericia Lespedeza
Smartweed, Swamp	Polygonum coccineum
Snakeweed, Broom	Gutierezia sarothrad
Sorrel, Red (Sheep Sorrel)	Rumex acetosella
Sowthistle, Perennial	Sonchus arvensis
Spurge, Leafy	Euphorbia esula
Sundrops,	Oenothera perrenis
Thistle, Canada	Cirsium arvense
, Scotch	Onopordum acanthium
Toadflex, Dalmatian	Linaria genistrata
Tropical Soda Apple	Solanum viarum
Trumpetcreeper (Buckvine)	Campsis radicans
Vetch	Vicia spp.
Waterhemlock, Spotted	Cicuta maculata
Waterprimrose, Creeping	Ludwigia peploides
Woodsorrel, Creeping	Oxalis corniculata
Yellow	Oxalis stricta
Wormwood,	Artemesia absinthium
, Louisiana	Artemesia luoviciana
Yankeeweed	Eupatorium compositifolium
Yarrow, Common	Achillea millefolium

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Common Name	Scientific Name
WOODY ODECIES	
Alder	Alous soo
Ach	Fravinus spp.
Aspen	Populus son
Rasswood	Tilia americana
Beech	Fagus sop
Birch	Betula spp.
Blackberry	Rubus spp.
Blackoum	Nyssa spp.
Cedar	Cedrus spp.
Cherry	Prunus spp.
Chinguapin	Chrysolepis chrysophylla
Cottonwood	Populus deltoides
Creosotebush	Larrea tridentata
Cucumbertree	Magnolia acuminata
Dewberry	Rubus caesius
Dogwood	Cornus spp.
Elm	Ulmus spp.
Grape	Vitus spp.
Hawthorn (Thornapple)	Crataegus spp.
Hemlock	Isuga spp.
Hickory	Carya spp.
Honeylocust	Gleditsia triacanthos
Honeysuckle	Lonicera spp.
Hornbeam	Carpinus spp.
	Accellation arboreum
Huisache	Physical Famesiana
Kudzu	Puoraria lobata
Locust Plack	Pahinia espudicacia
Manlo	Acer enn
Macquito	Prosonis ruscifolia
Cak	i Ouercus son
Oak Poison	Rhus taxicodendron
i Olive, i uisein I Olive, Russian	Flegerinus andustifolia
Persimmon Eastern	Diospyros virginiana
Pine	Pinus spp.
Plum, Sand (Wild Plum)	Prunus amygdalis
Poplar	Populus sop.
Rabbitbrush	Chrysothamnus pulchellus
Reddedar, Eastern	Juniperus virginiana
Rose, McCartney	Frosa bracteata
, Multiflora	Rosa multiflorum
l Segebrush, Fringed	Artemisia frigida
Cupsãi do	Gassalitas abidatti
Serviceberry	Amelanchier sanguinea
Spicebush	Lindera benzoin
Spruce	Picea spp.
Sumac	Rhus spp.
Sweetgum	Liquidamber styraciflua
Sycamore	Platanus occidentalis
	Fiourensia cernua
	Salix spp.
vvitchnazel	ranamelis macrophylla
raupon	liex spp.
Tucca	rucca spp.

Crops This product can be used on the following crops: Asparagus **Conservation Reserve Program (CRP)** \Corn Cotton Fallow Systems (Between Crop Applications) **Proso Millet** Pastures, Rangeland, General Farmstead Small Grains (Barley, Oat, and Wheat) Sorghum Soybean Sugarcane Turf Look inside for complete Restrictions and Limitations and Application Instructions.







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BASF Corporation P.O. Box 13528 Research Triangle Park, NC 27709



