SWITED STATES	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460	EPA Reg. Number: 7969-323	Date of Issuance: JVL 28 2011	
	NOTICE OF PESTICIDE:	Term of Issuance: ur	nconditional	
<u>x</u> Registration <u>Reregistration</u> (under FIFRA, as amended)		Name of Pesticide Pro	Name of Pesticide Product: Dyvel WG Herbicide	
		Dyvel WG He		
ASF Corporat Davis Drive esearch Trians 709	ion gle Park, NC differing in substance from that accented in connection with this re	egistration must be submitted to	and accented by the	
te: Changes in labeling gistration Division prior	to use of the label in commerce. In any correspondence on this pr	roduct always refer to the above	EPA registration number.	
the basis of information ngicide and Rodenticide protect health and the er th the Act. The accepta th to exclusive use of the The basic f	n furnished by the registrant, the above named pesticide is hereby is Act. Registration is in no way to be construed as an endorsement invironment, the Administrator, on his motion, may at any time susp ince of any name in connection with the registration of a product un e name or to its use if it has been covered by others.	registered/reregistered under the or recommendation of this prod pend or cancel the registration o ider this Act is not to be constru	Federal Insecticide, uct by the Agency. In order f a pesticide in accordance ed as giving the registrant a	
This produ	ct is registered in accordance with FIFRA section	n 3(c)(5) provided that	vou:	
1. Submi Agenc	t and/or cite all data required for registration revi y requires all registrants of similar products to su	iew/reregistration of yo ibmit data.	ur product when the	
2. Make t	he following label revision:			
a. Rev b. Ass	vise "EPA REG. NO.7969-xxx" to "EPA REG. I ure that the establishment number and net conter	NO. 7969-323." nts are also added to the	e final printed label.	
3. Within (830.6 condu- should	one year of the date on this registration notice (317) and Corrosion Characteristics (830.6320) s cted in the commercial containers of this manufa be made at 0, 3, 6, 9, and 12 month intervals.	or upon completion), the studies must be submitted acturing use product and	ne Storage Stability ed. They must be d observations	
4. Submit	one (1) copy of the revised final printed label for	r the record.		
f these conditions IFRA sec. 6(e). Y amped copy of th	are not complied with, the registration will be su four release for shipment of the product constitute e label is enclosed for your records.	ubject to cancellation in ites acceptance of these	accordance with conditions. A	
you have any que	estions regarding this notice, please contact Beth	Benbow of my staff at	703-347-8072.	
gnature of Approving Of athryn V. Montag	Ticial: The Dattorin V. Mont	JUL 2	8 2011	

13



Group 4 H

Herbicide

ACCEPTED

JUL 28 2011

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amonded, for the pesticide registered under. BPA Reg. No 7969-323



· · · · ·	a the second second second
A broadleaf herbicide for use in wheat (sp fallow areas	ring, winter, durum) and
Active Ingredients: sodium salt of dicamba: (3,6-dichloro-o-anisic acid)	
Other Ingredients:	<u></u>
Total:	
Contains 0.45 pound active ingredient 3,6-dichloro-o-anisic acid per p granules.	bound formulated as water-dispersible

EPA Reg. No. 7969-xxx

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

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

See inside for complete First Aid, Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.

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

Net Contents:

BASF Corporation 26 Davis Drive, Research Triangle Park, NC 27709

FIRST AID		
lf in eyes	 Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the 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 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 Corporation for emergency medical treatment information at 1-800-832-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals

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

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are nitrile rubber and butyl rubber. If you want more options, follow the instructions for **Category C** on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (except for applicators using groundboom equipment, pilots, and flaggers)
- · Shoes plus socks

Follow the 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.

Engineering 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.

Pilots must use cockpits in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6).

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 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. Apply this product only as directed on the label.

This chemical is known to leach through soil into groundwater 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 groundwater contamination.

Ground and Surface Water Protection

Point-source Contamination

To prevent point-source contamination, **DO NOT** mix or 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 described as follows.

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 self-contained 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 washwater, and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing and/or 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:

- Back-siphoning into wells
- Spills
- Improper disposal of excess pesticide, spray mixtures or rinsate

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 groundwater contamination. Groundwater contamination may occur in areas where soils are permeable or coarse and groundwater is near the surface. **DO NOT** apply to soils classified as sand with less than 3% organic matter and where groundwater depth is shallow. To minimize the possibility of groundwater contamination, carefully follow application rate recommendations as affected by soil type in the **Product Information** section.

Movement by Water Erosion of Treated Soil

DO NOT apply or incorporate this product through any type of irrigation equipment or by flood or furrow irrigation. Ensure treated areas have received at least 1/2 inch of 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.

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 intervals. The requirements in this box only apply to uses of this product that are covered by the WPS.

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 worn over short-sleeved shirt and short pants
- Chemical-resistant footwear plus socks.
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant headgear for overhead exposure
- Protective eyewear

~ <u>___</u>~

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage and disposal.

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

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. 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.

(continued)

STORAGE AND DISPOSAL (continued)

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 \leq 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. 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 > 50 pounds) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. 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.

In Case of Emergency

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

• BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

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

Steps to be taken in case material is released or spilled:

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

4

Product Information

Dyvel™ WG herbicide is a water-dispersible granule formulation intended for control and suppression of many broadleaf weeds in wheat and between crops (postharvest and fallow). See **Table 1** for specific weeds controlled or suppressed.

Rainfast period - Rainfall or irrigation occurring within 4 hours after postemergence application may reduce the effectiveness of **Dyvel WG**.

Stress - **DO NOT** apply to crops under stress because of lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, insects, or widely fluctuating temperatures or injury may result.

13

Table 1. Broadleaf Weeds Controlled (C) or Suppressed (S) by Dyvel[™] WG herbicide Postemergence Application

		Application Rate (ozs/A)		
Common Name	Scientific Name	Wheat Postemergence 2.1 to 4.2	Fallow 4.2	
Annual Broadleaf Weeds (small; < 3 inches; actively growing	ng)			
Amaranth, Palmer	Amaranthus palmeri	S	С	
Amaranth, Powell	Amaranthus powellii	S	С	
Amaranth, spiny	Amaranthus spinosus	S	C.	
Bedstraw, catchweed	Galium aparine	S	S	
Buckwheat, tartary Buckwheat, wild	Fagopyrum tataricum Polygonum convolvulus	C C	C C	
Carpetweed	Mollugo verticillata	S	S	
Chamomile, corn	Anthemis arvensis	S	С	
Chervil, bur	Anthriscus caucalis	S	S	
Chickweed, common	Stellaria media	S	S	
Cockle, corn Cockle, cow	Agrostemma githago Vaccaria pyramidata	S	C C	
Cocklebur, common	Xanthium strumarium	С	С	
Cornflower	Centaurea cyanus	S	С	
Dragonhead, American	Dracocephalum parviflorum	S	S	
Eveningprimrose, cutleaf	Oenothera laciniata	S	S	
Falseflax, smallseed	Camelina microcarpa	S	S	
Fleabane, hairy	Conyza bonariensis	S	С	
Flixweed	Descurainia sophia	S	S	
Fumitory	Fumaria officinalis	S	S	
Hempnettle	Galeopsis tetrahit	S	S	
Henbit	Lamium amplexicaule	S	S	
Horseweed (Marestail)	Conyza canadensis	S	С	
Jacob's ladder	Polemonium caeruleum	S	S	
Jimsonweed	Datura stramonium	S	С	
Knawel (German moss)	Scleranthus annuus	S	С	
Knotweed, prostrate	Polygonum aviculare	С	С	
Kochia	Kochia scoparia	S	С	
Ladysthumb	Polygonum persicaria	S	С	
Lambsquarters, common	Chenopodium album	S	С	
Lettuce, miner's	Claytonia perfoliata Lactuca serriola	S	S C	
Mallow, common	Malva neglecta	S	C	
Mallow, Venice	Hibiscus trionum	S	c	
Marestail (Horseweed)	Conyza canadensis	S	С	
Marshelder	Iva xanthifolia	С	С	
Mayweed	Anthemis cotula	S	С	
Morningglory, ivyleaf Morningglory, tall	lpomoea hederacea Ipomoea purpurea	S S	C C	

Table 1. Broadleaf Weeds Controlled (C) or Suppressed (S) by Dyvel[™] WG herbicide Postemergence Application (continued)

		Application Rate (ozs/A)	
Common Name	Scientific Name	Wheat Postemergence 2.1 to 4.2	Fallow 4.2
Annual Broadleaf Weeds (small: < 3 inches: actively growin)(continued)		
Mustard black	Brassica pigra	S	S
Mustard, blue	Chorispora tenella	S	S
Mustard, tansy	Descurainia pinnata	S	S
Mustard, treacle	Erysimum repandum	S	S
Mustard, tumble	Sisymbrium altissimum	S	S
Mustard, wild	Sinapis arvensis	S	S
Nightshade, black	Solanum nigrum	С	С
Nightshade, cutleaf	Solanum triflorum	S	С
Nightshade, eastern black	Solanum ptycanthum	S	C
Nightshade, hairy	Solanum sarrachoides	S	С
Pennycress, field	Thlaspi arvense	S	С
Pepperweed, Virginia	Lepidium virginicum	S	S
Pigweed, prostrate	Amaranthus blitoides	S	С
Pigweed, redroot	Amaranthus retroflexus	S	С
Pigweed, smooth	Amaranthus hybridus	S	C
Pigweed, tumble	Amaranthus albus	S	С
Pineappleweed	Matricaria matricarioides	S	S
Puncturevine	Tribulus terrestris	S	S
Purslane, common	Portulaca oleracea	S	S
Radish, wild	Raphanus raphanistrum	S	S
Ragweed, common	Ambrosia artemisiifolia	С	С
Ragweed, giant	Ambrosia trifida	S	С
Rocket, London	Sisymbrium irio	S	S
Rocket, yellow	Barbarea vulgaris	S	S
Salsify	Tragopogon porrifolius	S	S
Shepherd's purse	Capsella bursa-pastoris	S	S
Smartweed, green	Polygonum scabrum	S	С
Smartweed, Pennsylvania	Polygonum pensylvanicum	S	С
Sowthistle, annual	Sonchus oleraceus	S	S
Sowthistle, spiny	Sonchus asper	S	С
Sunflower, common	Helianthus annuus	S	С
Thistle, Russian	Salsola iberica	S	С
Velvetleaf	Abutilon theophrasti	S	С
Waterhemp	Amaranthus tuberculatus	S	C
Perennial Broadleaf Weeds (suppression of regrowth; < 4 incl	nes)		
Alfalfa	Medicago sativa	S	S
Bindweed, field	Convolvulus arvensis	S	S
Bindweed, hedge	Calystegia sepium	S	S
Ragweed, Western	Ambrosia psilostachya	S	S
Thistle, Canada	Cirsium arvense	S	S

Mode of Action

Dyvel™ WG herbicide is a benzoic auxin agonist herbicide belonging to mode of action **Group 4** (WSSA) and **Group O** (HRAC). **Dyvel WG** is readily absorbed by roots and foliage, translocates throughout the plant, and accumulates in areas of active growth. **Dyvel WG** interferes with the plant growth resulting in control of susceptible broadleaf weeds.

Resistance Management

While weed resistance to auxin agonist herbicides is relatively infrequent, populations of resistant biotypes are known to exist. Resistance management practices include:

- 1. Follow labeled application rate and weed growth stage recommendations.
- 2. Avoid repeat application of herbicides with the same mode of action.
- Use tank mixes and sequential applications with other effective herbicides possessing different modes of action.
- 4. Rotate crops so crop competition, tillage, or herbicides with alternative modes of action can be used to control weed escapes.

Wheat Tolerance

Wheat is tolerant to **Dyvel WG** when applied according to label directions under normal environmental conditions. Crop injury may occur under stressful growing conditions (e.g. seedling disease, extreme hot or cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought). **Dyvel WG** application during periods of rapid wheat growth may result in crop leaning; this condition is temporary and will not reduce crop yield.

Application Instructions

Dyvel WG can be applied to actively growing weeds as aerial, broadcast, or spot spray applications using water or sprayable fertilizer as a carrier.

Application Rates

Application rates are 4.2 ozs/A for fallow application and 2.1 to 4.2 ozs/A for wheat postemergence application. Refer to the **Crop-specific Information** section for crop-specific application timing and other details.

Application Methods and Equipment

Dyvel WG may be applied by air or ground. Thorough spray coverage is important for broadleaf weed control and can be improved with proper adjuvant, nozzle and spray volume selection.

Use and configure application equipment to provide an adequate spray volume, an 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.

To avoid uneven spray coverage, **DO NOT** apply **Dyvel WG** during periods of gusty wind or when wind is in excess of 15 mph.

DO NOT cultivate within 7 days after applying **Dyvel WG**.

Aerial Application Requirements

Water Volume

Use 2 to 10 gallons of water per acre. Use the higher spray volume when treating dense or tall vegetation.

The following spray drift management requirements must be followed by aerial applicators to reduce the potential for spray drift:

- 1: The distance of the outermost nozzles on the boom
- must not exceed 3/4 the length of the fixed wingspan or 90% of rotor blade diameter.
- 2. Nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees.
- 3. Without compromising aircraft safety, release spray at a height of 10 feet or less above the crop canopy or tallest plants.

Aerial Application Equipment

Sélect nozzles designed to produce a minimal amount of fine spray particles. Aerially apply at the lowest safe height to reduce exposing 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 state and local regulations and ordinances.

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

Ground Application Requirements

Water Volume

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

Ground Application Equipment

Select nozzles designed to produce a minimal amount of fine spray particles. Spray with nozzles as close to the weeds as practical for thorough weed coverage.

Cleaning Spray Equipment

Following application, clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions, followed by triple rinsing with clean water.

Spray Drift Management

It is the responsibility of the applicator to avoid spray drift onto nontarget areas. The interaction of many equipmentrelated 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.

Applicators must follow the most restrictive use precautions to avoid drift hazards, including those found in this labeling as well as applicable state and local regulations and ordinances.

Sensitive Crop Precautions

Avoid off-target movement. Use extreme care when applying **Dyvel™ WG herbicide** to prevent injury to desirable plants.

Dyvel WG may cause injury to desirable broadleaf plants including beans, cotton, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, and tomatoes. These plants are most sensitive to **Dyvel WG** during periods of rapid growth or flowering.

The applicator must be familiar with and take into account the information covered in the following spray drift reduction advisory information.

Information on Droplet Size

The most effective way to reduce drift potential is to apply the largest droplets that provide sufficient coverage and control. Use coarse sprays (volume median diameter of 400 microns or more) to avoid potential herbicide drift. Select nozzles designed to produce a minimal amount of fine spray particles (less than 200 microns). 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 noz-
- zles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. For aerial application, significant deflection from the horizontal airstream will increase fine droplets and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. DO NOT use nozzles producing a mist droplet spray. For aerial application, straight-stream or

solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Additives

Agriculturally approved drift-reducing additives may be used to reduce fine droplets.

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

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

Applications should not occur during temperature inversions because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud that can move in unpredictable directions because of 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.

Sensitive Areas

This pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or nontarget plants) is minimal (e.g. when wind is blowing away from sensitive areas).

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

To improve postemergence weed control, agriculturally approved surfactants or crop oil concentrate and sprayable fertilizers (urea ammonium nitrate [UAN] or ammonium sulfate [AMS]) may be added, particularly in dry growing conditions; refer to **Table 2**.

Nonionic Surfactant (NIS)

The standard label recommendation for normal growing conditions is 1 quart of an 80% active NIS per 100 gallons of water.

Crop Oil Concentrate (COC)

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

- Nonphytotoxic
- Contain only EPA-exempt ingredients
- Provide good mixing quality in the jar test
- Successful in local experience

The exact composition of suitable products will vary; however, vegetable-oil 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**.

Nitrogen Source

- UAN Use 2 to 4 quarts of UAN (28%, 30%, or 32% nitrogen solution) per acre.
- AMS AMS at 2.5 pounds per acre may be substituted for UAN. Use high-quality AMS (spray grade) to avoid plugging of nozzles. Avoid use of AMS in spray volume less than 10 gallons per acre because of potential precipitation problems.

DO NOT use galvanized, brass, or aluminum application equipment (e.g. nozzles, tanks, pipes) that will contact spray solutions containing UAN or AMS.

Table 2. Additive Rate/Acre

Additive	Rate/A*
NIS	0.5 to 2 qts/100 gals
or	or
COC**	1 to 2 qts
[,] PLUS	PLUS
UAN solution	2 to 4 qts/A
or	or
AMS	2.5 lbs/A
*See manufacturer's label for s	specific rate recommendations.

crop (postharvest, fallow) applications. **DO NOT** use crop oil concentrate for postemergence in-crop applications.

Tank Mixing Information

Dyvel™ WG herbicide may be tank mixed with one or more registered herbicide products according to the specific tank mixing instructions in this label and respective product labels. Read and follow the applicable restrictions and limitations and **Directions For Use** on all product labels involved in tank mixing. Always follow the most restrictive label use directions. Refer to the **Crop-specific Information** section for tank mixing details. **DO NOT** tank mix with **Axial® herbicide** or **Discover® herbicide** products.

Mixing **Dyvel WG** with postemergence grass (graminicide) herbicides may reduce the effectiveness of those products. Physical incompatibility, reduced weed control, or crop injury may result from mixing **Dyvel WG** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers. Local agricultural authorities may be a source of information when using other than BASF-recommended tank mixes.

Dyvel WG may be used in tank mixtures with most foliarapplied insecticides. However, **DO NOT** apply **Dyvel WG** in tank mixtures with **Lorsban[®] insecticide**.

Compatibility Test for Mix Components

Before mixing components, always perform a compatibility jar test.

- 1. For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.
- 2. Add components in the sequence indicated in the following mixing order instructions; use 2 teaspoons per pound or 1 teaspoon per pint of labeled use rate per acre.
- 3. Cap the jar and invert 10 cycles between component additions.
- 4. When the components have all been added to the jar, let the solution stand for 15 minutes.

5. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, or fine particles that precipitate to the bottom, or 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.

Mixing Order

Maintain agitation throughout mixing.

- 1. Water Fill tank 1/2 to 3/4 full with clean water and start agitation.
- Inductor If an inductor is used, rinse it thoroughly after each component has been added.
- Products in PVA bags Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 4. Water-conditioning additives (including dry and liquid fertilizers such as AMS or UAN)
- Water-dispersible products (such as Dyvel™ WG herbicide, dry flowables, wettable powders, suspension concentrates or suspo-emulsions)
- 6. Water-soluble products and additives
- Emulsifiable concentrates (including crop oil concentrate or methylated seed oil adjuvants)
- 8. Remaining quantity of water

Maintain agitation throughout application until spraying is completed. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed. Continue agitation while spraying.

Use Restrictions

- Maximum seasonal use rate 4.2 ozs/A for fallow or wheat postemergence application.
- **DO NOT** make more than one (1) application per crop season.
- DO NOT apply to winter wheat in the fall.
- DO NOT apply to wheat underseeded to forage.
- · Restricted-entry interval (REI) 24 hours
- **DO NOT** graze livestock or harvest forage for hay from treated areas for a minimum of 30 days following application.
- Preharvest interval (PHI) DO NOT harvest grain for 60 days following application.
- DO NOT apply through any type of irrigation equipment.
- **DO NOT** treat irrigation ditches or water used for crop irrigation or domestic purposes.

Crop Rotation and Emergency Replanting Intervals

Wheat may be planted anytime after a fallow application or crop failure.

Cereals (barley, oats, triticale), corn, cotton, sorghum, and soybean may be planted 30 days after application.

All other crops may be planted 120 days after application.

Crop-specific Information

Fallow (Between-crop Application)

Postharvest, Fallow, Crop Stubble, and Set-aside

Dyvel WG can be applied either postharvest in the fall, spring, or summer; during the fallow period; or to crop stubble/set-aside acres. Apply **Dyvel WG** 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 Rotation and Emergency Replanting Intervals** section for the required interval between application and planting.

Application Rate and Timing

Apply 4.2 ozs of **Dyvel WG** per acre. For best performance, apply **Dyvel WG** when annual weeds are less than 3 inches and perennial weeds are in early regrowth stage (less than 4 inches) in late summer or fall following a mowing or tillage treatment. An adjuvant system (refer to **Additives** section for details) is required for optimum broadleaf activity. Avoid disturbing treated areas following application. Treatment may not kill weeds that develop from seed or underground plant parts such as rhizomes or bulblets after application. Use a sequential herbicide application or other cultural practice to control later emerging weeds.

Tank Mixtures

Broad-spectrum control of grass weeds and/or additional broadleaf weeds will usually require a tank mix with another herbicide. **Dyvel WG** may be tank mixed or applied sequentially with one or more of, but not limited to, the following herbicide products:

- Clarity[®] herbicide
- Paramount[®] herbicide
- 2,4-D
- glyphosate (e.g. Roundup[®] herbicide)

Wheat (Fall-seeded and Spring-seeded)

Apply **Dyvel WG** to wheat postemergence only. **DO NOT** apply to winter wheat in the fall. For best performance, apply **Dyvel WG** when annual weeds are small (less than 3 inches) and actively growing. An adjuvant system (refer to **Additives** section for details) is required for optimum broadleaf activity. Application of **Dyvel WG** to wheat during periods of rapid growth may result in crop leaning. This condition is temporary and will not reduce crop yield.

Application to wheat may be made by aerial application using 2 gallon of water or more per acre. Where dense foliage is present, use more than 2 gallons of water per acre.

Postemergence Application

Apply Dyvel™ WG herbicide at 2.1 to 4.2 ozs/A between the 2-leaf stage and emergence of the fourth tiller.

DO NOT use crop oil concentrate for postemergence in-crop application.

Tank Mixtures

Broad-spectrum control of broadleaf and grass weeds will usually require a tank mix with another herbicide. Dyvel WG may be tank mixed or applied sequentially with one or more of, but not limited to, the following herbicide products:

- Beyond[®] herbicide (for Clearfield[®] wheat only)
- Clearmax® herbicide (for Clearfield wheat only)
- 2.4-D amine
- MCPA
- Sulfonylurea-based herbicide (e.g. Ally® herbicide, Express® herbicide, Harmony® Extra herbicide, Peak[®] herbicide)

DO NOT tank mix or use in the same season with Axial® herbicide or Discover® herbicide products.

11

ster.

يرد بر

1

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. 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 CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

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

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

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

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

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF. 1108

Dyvel is a trademark of BASF.

Beyond, Clarity, Clearfield, Clearmax, and Paramount are registered trademarks of BASF.

Ally, Express, and Harmony are registered trademarks of E. I. duPont de Nemours and Company.

Axial, **Discover**, and **Peak** are registered trademarks of a Syngenta Group Company.

Lorsban is registered trademark of Dow AgroSciences LLC.

Roundup is registered trademark of Monsanto Technology LLC.

© 2011 BASF Corporation All rights reserved.

007969-00xxx.20100831c.NVA 2010-04-378-0112

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



The Chemical Company