

#### U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460

6271	0 722	,

Date of Issuance:

EPA Reg. Number:

9/25/17

X Registration Reregistration (under FIFRA, as amended) Term of Issuance: Unconditional

Name of Pesticide Product:

GF-475

Name and Address of Registrant (include ZIP Code):

Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

- 1. Submit and/or cite all data required for registration/registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
- 2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official: Date: artryn V. W Jontaguo 9/25/17

Kathryn V. Montague, Product Manager 23 Herbicide Branch, Registration Division (7505P)

EPA Form 8570-6

- 3. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 62719-722."
- 4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

• Basic CSF dated 1/20/2017

If you have any questions, please contact Emily Schmid at 703-347-0189 or by email at schmid.emily@epa.gov.

Enclosure

(Base label):

# **GF-475**

## **HERBICIDE**

**ACCEPTED** 09/25/2017

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 62719-722

For selective control of many broadleaf weeds in certain crops, including cereal grains (wheat, barley, millet, oats and rye), corn (field corn, popcorn and sweet corn), fallow land and crop stubble, sorghum (grain and forage sorghum), and soybeans (preplant burndown application only), forests, rangeland and established grass pastures, including Conservation Reserve Program (CRP) acres, listed non-cropland areas, grasses grown for seed or sod, and ornamental turfgrass.

4	HERBICIDES
: Acid, 61.	7%
38.:	
	38.

## Keep Out of Reach of Children

# **CAUTION**

### **Precautionary Statements**

#### Hazards to Humans and Domestic Animals

Acid Equivalents: 2,4-dichlorophenoxyacetic acid: 40.9% - 3.7 lb/gal

Harmful If Swallowed. Harmful if Inhaled. Avoid breathing spray mist.

Avoid contact with skin, eyes, or clothing.

## **Personal Protective Equipment (PPE)**

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

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

See engineering controls for additional requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **Engineering Controls**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protections 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 an enclosed cockpit that meets the requirements listed in the Worker Protections Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)].

## **User Safety Recommendations**

Users should:

- Wash hands thoroughly after handling and 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.

#### First Aid

#### If swallowed:

- •Call a poison control center or doctor immediately for treatment advice.
- •Have a person sip a glass of water if able to swallow.
- •Do not induce vomiting unless told to do so by a poison control center or doctor.
- •Do not give anything by mouth to an unconscious person.

#### If inhaled:

- •Move the person to fresh air.
- •If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to mouth if possible.
  - •Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

#### **Environmental Hazards**

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

## Nonrefillable containers 5 gallons or less:

## **Storage and Disposal**

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Keep container tightly closed when not in use. If exposed to subfreezing temperatures, the product should be warned to at least 40°F and mixed thoroughly before using. **Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

## Refillable containers larger than 5 gallons:

## Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Keep container tightly closed when not in use. If exposed to subfreezing temperatures, the product should be warmed to at least 40°F and mixed thoroughly before using. **Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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Refer to label booklet for Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-XXX

EPA Est.

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(cover, shipping container):

# **GF-475**

#### **HERBICIDE**

For selective control of many broadleaf weeds in certain crops, including, cereal grains (wheat, barley, millet, oats and rye), corn (field corn, popcorn and sweet corn), fallow land and crop stubble, sorghum (grain and forage sorghum), and soybeans (preplant burndown application only), forests, rangeland and established grass pastures including Conservation Reserve Program (CRP) acres, listed non-cropland areas, grasses grown for seed or sod, and ornamental turfgrass.

Active Ingredient:

2,4-Dichlorophenoxyacetic Acid,

 2-Ethylhexyl Ester
 61.7%

 Other Ingredients
 38.3%

 Total
 100.0%

Acid Equivalents: 2,4-dichlorophenoxyacetic acid: 40.9% - 3.7 lb/gal

## Keep Out of Reach of Children

# **CAUTION**

#### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

#### Refer to inside of label booklet for Directions for Use.

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[Page 1 through end]:

## **Precautionary Statements**

## **Hazards to Humans and Domestic Animals**

## CAUTION

Harmful If Swallowed. Harmful if inhaled. Avoid breathin spray mist

## **Personal Protective Equipment (PPE)**

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

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

See engineering controls for additional requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## **Engineering Controls**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protections 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.

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#### **User Safety Recommendations**

Users should:

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### First Aid

#### If swallowed:

- •Call a poison control center or doctor immediately for treatment advice.
- •Have a person sip a glass of water if able to swallow.
- •Do not induce vomiting unless told to do so by a poison control center or doctor.
- •Do not give anything by mouth to an unconscious person.

#### If inhaled:

- •Move the person to fresh air.
- •If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to mouth if possible.
  - •Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

#### **Environmental Hazards**

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

#### **Directions for Use**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

## **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- · Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

## **Non-Agricultural Use Requirements**

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

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

#### **Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Keep container tightly closed when not in use. If exposed to subfreezing temperatures, the product should be warmed to at least 40°F and mixed thoroughly before using. **Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Nonrefillable containers 5 gallons or less:

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

## Refillable containers larger than 5 gallons:

**Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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## **Product Information**

GF-475 herbicide is intended for selective control of many broadleaf weeds in certain crops, including, cereal grains (wheat, barley, millet, oats and rye), corn (field corn, popcorn and sweet corn), fallow land and crop stubble, sorghum (grain and forage sorghum), and soybeans (preplant burndown application only), forests, rangeland and established grass pastures including Conservation Reserve Program (CRP) acres, non-cropland, grasses grown for seed or sod, and ornamental turfgrass.

Apply GF-475 as a water or oil-water spray during warm weather when weeds or woody plants are actively growing. Application under drought conditions will often give poor results. Use low spray pressure to minimize drift. Generally, the lower dosages specified on this label are satisfactory for young, succulent growth of susceptible weed species. For less susceptible species and under conditions where control is more difficult, use higher specified rates. Deep-rooted perennial weeds, such as Canada thistle and field bindweed and many woody plants, usually require repeated applications for satisfactory control. Consult your State Agricultural Experiment stations or Extension Service Weed Specialists for recommendations from this label that best fit local conditions.

#### **Use Precautions**

Excessive amounts of 2,4-D in the soil may temporarily inhibit seed germination and plant growth.

#### **Use Restrictions**

**Chemigation:** Do not apply this product through any type of irrigation system.

## **Spray Drift Management**

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

#### **Droplet Size**

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a coarse or coarser spray, apply only as a coarse or coarser spray (ASABE Standard 572) or a volume mean diameter of 385 microns or more for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a medium or more fine spray, apply only as a medium or coarser spray (ASABE Standard 572) or a volume mean diameter of 300 microns or more for spinning atomizer nozzles.

#### Wind Speed

Do not apply at wind speeds more than 15 mph. Apply this product only if the wind direction favors ontarget deposition and there are not sensitive areas (including residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a medium spray, leave one swath unsprayed at the downwind edge of the treated field.

#### **Temperature Inversions**

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

#### **Susceptible Plants**

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include cotton, okra, flowers, fruit trees, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that may not be visible may injure susceptible broadleaf plants.

#### Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

#### **Equipment**

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

## **Aerial Application**

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

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

#### **Ground Boom Application**

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

2,4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

## **Mixing Directions**

- 1. Fill the spray tank about half full with water, then add the required amount of GF-475 with agitation, and finally the rest of the water. **Note:** GF-475 in water forms an emulsion that tends to separate unless the mixture is kept agitated.
- 2. If oil is added, first mix the GF-475 and the oil and then add this mixture to the water. However, with adequate agitation, the oil can be added after GF-475 is mixed with water.
- 3. If straight oil is used, a solution is formed and separation does not occur. Do not allow any water to get into the oil-herbicide mixture to avoid formation of an invert emulsion.

**Note:** Adding oil, wetting agent, or other surfactant to the spray mixture may increase effectiveness on weeds, but also may reduce selectivity in crops resulting in crop damage.

## **Tank Mixing Restrictions:**

- Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- Do not exceed specified application rates. Do not tank mix with another pesticide product that contains
  the same active ingredient as this product unless the label of either tank mix partner specifies the
  maximum dosages that may be used.
- It is the pesticide user's responsibility to ensure that all products are registered for the intended use.
   Read and follow the applicable restrictions and limitarions and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**Tank Mix Compatibility Testing:** A jar test is recommended prior to tank mixing to ensure compatibility of this product and other pesticides. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used.

#### Mixing with Liquid Nitrogen Fertilizer

This product may be combined with liquid nitrogen fertilizer suitable for foliar application to accomplish broadleaf weed control and fertilization of corn, small grains or pastures in a single operation. Use GF-475 in accordance with directions for these crops provided in this label. Use liquid fertilizer at rates specified by the supplier or Extension Service Specialist. Test for mixing compatibility by mixing spray ingredients in correct proportions in a clear glass jar before mixing in spray tank. A compatibility aid such as Unite or Compex may be needed in some situations. Compatibility is best with liquid fertilizer solutions containing only nitrogen. Mixing with N-P-K solutions may not be satisfactory, even with the addition of a compatibility aid. Pre-mixing GF-475 with 1 to 4 parts water may help in situations when mixing difficulty occurs.

Fill the tank about half full with the liquid fertilizer, then add the required amount of GF-475 with agitation.. Maintain agitation and complete filling the tank with liquid fertilizer. Apply immediately and continue agitation in spray tank during application. **Do not store the spray mixture.** Application during very cold weather (near freezing) is not advisable.

## **Sprayer Equipment Clean-Out**

To avoid injury to desirable plants, thoroughly clean equipment used to apply this product before re-use or applying other chemicals.

- 1. Rinse and flush application equipment thoroughly after use at least three times with water. Dispose of all rinse water by application to treatment area or apply to non-cropland area away from water supplies.
- 2. During the second rinse, add 1 quart of household ammonia for every 25 gallons of water. Circulate the solution through the entire system so that all internal surfaces are contacted (15 to 20 minutes). Let the solution stand for several hours, preferably overnight.
- 3. Flush the solution out of the spray tank through the boom.
- 4. Rinse the system twice with clean water, recirculating and draining each time.
- 5. Remove nozzles and screens and clean separately.
- 6. If equipment is to be used to apply another pesticide or agricultural chemical to a 2,4-D susceptible crop, additional steps may be required to remove all traces of 2,4-D, including cleaning of disassembled parts and replacement of hoses or other fittings that may contain absorbed 2,4-D.

## **Application Directions**

## **Spray Volume**

Apply with calibrated air or ground equipment using sufficient spray volume to provide adequate coverage of target weeds or as otherwise directed in specific use directions. For broadcast application, apply the specified rate of this product in a spray volume of 2 gallons or more per acre by air and 10 gallons or more per acre for ground equipment. Use low-pressure sprays to minimize drift. Where states have regulations that specify minimum spray volumes, they must be observed. In general, increase spray volume as crop canopy, height and weed density increase in order to obtain adequate spray coverage. **Do not apply less than 2 gallons total spray volume per acre.** 

#### **Application Rates**

Generally, lower rates in specified rate ranges are satisfactory for more sensitive weeds species, when weeds are small, and when environmental conditions are favorable for rapid growth. Use higher rates in the specified rate range for less sensitive species and under less favorable growing conditions. For crop uses, do not mix with oil or other adjuvants unless specifically directed to do so on this label. Deeprooted perennial weeds, such as Canada thistle and field bindweed and many woody plants, usually require repeated applications for effective control.

#### **Spot Treatments**

To prevent misapplication, apply spot treatments with a calibrated boom or with hand sprayer using a fixed spray volume per 1000 sq ft as indicated below.

**Hand-Held Sprayers:** Hand-held sprayers may be used for spot applications of GF-475 in labeled crops. Take care to apply the spray uniformly and at a rate equivalent to a broadcast application. Application rates in the table are based upon a treatment area of 1000 sq ft. Mix the amount of GF-475 (fl oz or mLl) corresponding to the desired broadcast rate in 1 gallon or more of spray. To calculate the amount of GF-475 required for larger areas, multiply the table value (fl oz or mL) by the number of thousands of sq ft of area to be treated. An area of 1000 sq ft is approximately 10.5 X 10.5 yards (strides) in size. To calculate the amount of GF-475 required for a broadcast rate higher than those listed, use a multiple of the table value. For example, if a spot treatment requires the equivalent of an 8 pints per acre, use 2X the amount per gallon of spray required for the 4 pint per acre rate.

#### **Rate Conversion Table for Spot Treatment:**

	Label Broadcast Rate (pt/acre)						
1/2	2/3	3/4	1	2	3	4	8
Equivalent Amount of GF-475 per 1000 sq ft							
1/5 fl oz	1/4 fl oz	1/3 fl oz	3/8 fl oz	3/4 fl oz	1 fl oz	1 1/2 fl oz	3 fl oz
(5.5 mL)	(7.3 mL)	(8.3 mL)	(11 mL)	(22 mL)	(33 mL)	(44 mL)	(88 mL)

#### **Band Application**

GF-475 may be applied as a band treatment. Use the formulas below to determine the appropriate rate and volume per treated acre.

Band width in inches ----- X Broadcast rate = Band rate per Row width in inches treated acre per acre Band width in inches ----- X Broadcast volume Band volume Row width in inches per treated acre per acre

## **Herbicide Resistance Management**

2,4-D, the active ingredient in this product, is a Group 4 herbicide (synthetic auxin). Some naturally occurring weed biotypes that are tolerant (resistant) to 2.4-D may exist due to genetic variability in a weed population. Where resistant biotypes exist, the repeated use of herbicides with the same mode of action can lead to the selection for resistant weeds. Certain agronomic practices reduce the likelihood that resistant weed populations will develop and can be utilized to manage weed resistance once it occurs.

To aid in the prevention of developing 2,4-D resistant weeds, Dow AgroSciences recommends the following practices:

#### **Herbicide Selection:**

- Rotate the use of 2,4-D with non-auxin (non-Group 4) herbicides.
- Utilize a broad spectrum soil-applied herbicide as a foundation treatment.
- Utilize tank mixes or sequential applications of herbicides with alternative modes of action.
- Avoid using more than two applications of a Group 4 herbicide, such as 2,4-D, within a single growing season unless mixed with another mode of action herbicide with overlapping spectrum.
- Apply full rates of 2,4-D at the specified time (correct weed size) to minimize escapes of tolerant weeds.

### **Crop Selection and Cultural Practices:**

- Incorporate additional weed control practices whenever possible, such as mechanical cultivation, delayed planting, crop rotation, and weed-free crop seeds, as part of an integrated weed control program.
- Do not allow weed escapes to produce seeds, roots or tubers.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Scout fields after application to detect weed escapes or shifts in weed species.
- If resistance is suspected, treat weed escapes with an alternate mode of action or cultivation.
- Report any incidence of repeated non-performance of this product against a particular weed species to the local retailer, county extension agent, or Dow AgroSciences representative.

#### Weeds Controlled

#### **Annual or Biennial Weeds**

beggarticks1 mousetail2 bittercress, smallflowered<sup>2</sup> mustards (except blue mustard)

bitterweed parsnip, wild broomweed, common<sup>1</sup>

pennycress (fanweed)

burdock, common pepperweeds (Lepidium spp.)1,2 buttercup, smallflowered<sup>1, 2</sup> piqweeds (Amaranthus spp.)<sup>1</sup>

carpetweed poorjoe cinquefoil, common<sup>2</sup> primrose, common cinquefoil, rough<sup>2</sup> purslane, common<sup>2</sup> cocklebur, common pusley, Florida coffeeweed radish, wild copperleaf. Virginia<sup>2</sup> ragweed, common ragweed, giant croton, Texas croton, woolly rape, wild flixweed rocket, yellow galinsoga salsify, common1

geranium, Carolina<sup>2</sup> salsify, western<sup>1</sup> hemp, wild shepherdspurse

horseweed (marestail)<sup>2</sup> sicklepod

jewelweed smartweed (annual species)<sup>1, 2</sup>

iimsonweed sneezeweed, bitter knotweed1 sowthistle, annual kochia sowthistle, spiny lambsquarters, common spanishneedles lettuce, prickly<sup>1, 2</sup> sunflower lettuce, wild sweetclover **lupines** tansymustard mallow, little1 thistle, bull mallow. Venice1 thistle, musk1

marshelder thistle, Russian (tumbleweed)<sup>1</sup>

morningglory, annual velvetleaf morningglory, ivy vetches

morningglory, woolly

#### **Perennial Weeds**

alfalfa<sup>1, 2</sup> eveningprimrose, cutleaf<sup>2</sup>

artichoke, Jerusalem<sup>1</sup> garlic, wild<sup>1</sup> aster, many-flower<sup>1</sup> goldenrod

Austrian fieldcress<sup>1</sup> hawkweed, orange<sup>1</sup>

bindweed (hedge, field and healal

European)<sup>1, 2</sup> ironweed, western<sup>2</sup>

blue lettuce ivy, ground<sup>1</sup>

blueweed, Texas Jerusalem-artichoke broomweed loco, bigbend

bullnettle<sup>1, 2</sup> nettles (including stinging)<sup>1</sup>

carrot, wild¹ onion, wild¹ pennywort chicory plantains clover, red¹,² ragwort, tansy¹ sowthistle, perennial cress, hoary¹ thistle, Canada¹,²

dandelion<sup>1</sup> vervains<sup>1</sup> docks<sup>1</sup> wormwood

dogbanes1

<sup>1</sup>These weeds are only partially controlled and may required repeat applications and/or use of higher specified rates of this product even under ideal conditions of application.

## **Crop Uses**

**Agricultural Use Requirements for Crops:** For the following crop uses, follow PPE and Reentry instructions in the "Agricultural Use Requirements" section of this label.

<sup>&</sup>lt;sup>2</sup>This product may not be used to control this weed species in the state of California.

# Cereal Grains (Wheat, Barley, Millet, Oats, Rye) (Not Underseeded with Legumes)

Application Timing	GF-475 (pt/acre)	Specific Use Directions
wheat, barley, millet, rye		Postemergence: Apply after crop is fully tillered
annual and biennial broadleaf weeds	1/2 to 2 <sup>1</sup>	(usually 4 to 8 inches tall), but not forming joints in the stem.
perennial broadleaf weeds	1 to 2 <sup>1</sup>	
oats		Postemergence: Apply after crop is fully tillered but
spring seeded	1/2	(usually 4 to 8 inches tall), but not forming joints in
fall seeded southern	3/4 to 1 1/4 <sup>1</sup>	the stem.
preharvest application (all cereals)	1	Apply using air or ground equipment to control weeds that could interfere with harvest, or to suppress perennial weeds. Apply when grain is in dough stage. Do not apply from early boot through the milk stage of growth.

<sup>&</sup>lt;sup>1</sup>Use the lower rate in the rate range if small annual or biennial weeds are the major problem. Use the higher rate if perennial weeds or annual or biennial weeds are present which are considered to be hard to kill as determined by local experience. Up to 2.5 pints per acre may be applied postemergence to wheat, barley, rye and millet. However, there is greater risk of crop injury at rates greater than 1 1/3 pints per acre and such rates should be used only when the need for weed control justifies additional risk to the crop. Do not apply GF-475 at the crop seedling stage of growth. Consult state agricultural experiment station or extension service weed specialists for recommendations or suggestions to fit local conditions.

#### **Restrictions:**

- Preharvest Interval: Do not apply within 14 days before hay or grain harvest.
- Do not apply more than 3.5 pints of GF-475 (1.75 lb of acid equivalent) per acre per year.
- Do not make more than one postemergence application and one preharvest application per crop cycle.

## Corn (Field Corn, Popcorn and Sweet Corn)

A 11 (1 1	GF-475	0 15 11 51 11
Application Timing	(pt/acre)	Specific Use Directions
preplant (burndown) preemergence field corn, popcorn, sweet corn	1 - 2	General: For best results, growth conditions should be favorable for active weed growth. Use high rate in rate range for less susceptible weeds, cover crops such as alfalfa, weeds in advanced stages of development, or under less favorable growth conditions.  Preplant: Apply 7 to 14 days before planting corn to control emerged broadleaf weed seedlings or existing cover crops.  Preemergence: Apply any time after planting, but before corn emerges to control broadleaf weed seedlings or existing cover crops. Do not use on light sandy soils.
postemergence		Apply when weeds are small and corn is less than 8
field corn, popcorn, sweet corn		inches tall (to top of canopy). If corn is more than 8
annual broadleaf weeds		inches tall, use drop nozzles to keep spray off of
crop up to 8 inches tall	1/2 - 1	foliage.

Application Timing	GF-475 (pt/acre)	Specific Use Directions
crop 8 inches tall to tasseling (directed spray only)	1	Treat perennial weeds when they are in bud to bloom stage.
perennial broadleaf weeds	1	Do not tank mix with atrazine, oil or other adjuvants.  Do not apply from tasseling to hard dough stage.  Note: Corn treated with 2,4-D may become temporarily brittle. Wind or cultivation may cause stem breakage during the period of time that corn is brittle.  Sweet Corn: To minimize potential for crop injury, use only lowest rate in rate range.
preharvest field corn and popcorn only	up to 3	Apply after corn is in hard dough (or denting) stage.  Do not apply to sweet corn.

#### **Precautions:**

- Corn hybrids vary in tolerance to 2,4-D. Some are easily injured. Apply only to varieties known to be tolerant to 2,4-D. Consult the seed company or your Agricultural Experiment Station or Extension Service Weed Specialist for this information.
- After postemergence application, delay cultivation for 8 to 10 days to allow corn to overcome any temporary brittleness.

### **Restrictions (Field Corn and Popcorn):**

- Preharvest Interval: Do not apply within 7 days before grain or fodder harvest.
- Do not apply more than 6.0 pints of GF-475 per acre per year.
- Do not make more than one preplant or preemergence application, one postemergence application, and one preharvest application per year.

#### **Restrictions (Sweet Corn):**

- Preharvest Interval: Do not apply within 45 days before harvest.
- Do not apply more than 3.0 pints of GF-475 per acre per year.
- Do not permit meat or dairy animals to forage or graze treated area within 7 days after application.
- Do not make a postemergence application any less than 21 days after a prior application.
- Do not make more than one preplant or preemergence application, and one postemergence application per year.

## Fallowland and Crop Stubble

Fallowland is idle land, postharvest to crops or between crops.

Type of Weeds	GF-475 (pt/acre)	Specific Use Directions
annual broadleaf weeds	1 - 2	Use lower rate in rate range when weeds are small (2 to 3 inches tall) and conditions are favorable for active growth and a higher rate when weeds are larger and/or growing conditions are less favorable.
biennial broadleaf weeds	2 - 4	Apply when musk thistles or other biennial species are in the seedling to rosette stage and before development of flower stalks.  Use lower rates in the spring during the rosette stage and the higher rate in the fall or when flower stalks have developed.
perennial broadleaf weeds	2 - 4	Apply when perennial weeds are in bud or bloom stage and actively growing.  Do not disturb treated areas for at least two weeks after application or until top growth is dead.

	GF-475	
Type of Weeds	(pt/acre)	Specific Use Directions
wild garlic and onion in	4	Apply to new regrowth of wild garlic or onion that
crop stubble		occurs in the fall after harvest of other crops.

#### Precaution:

• For best weed control results, do not cultivate for at least two weeks after application or until top growth is dead.

#### Restrictions:

- Preharvest Interval: Do not apply within 7 days before cutting forage or hay from treated areas.
- Do not apply more than 4 pints of GF-475 per acre per application.
- Do not apply more than 8 pints of GF-475 per acre per year.
- Do not re-apply within 30 days of a previous application.
- Do not make more than two applications per season.
- If treated area is grazed within 30 days of application withdraw meat animals at least 3 days before slaughter.

#### **Planting in Treated Areas**

**Labeled Crops:** Within 29 days after an application of this product, plant only those crops listed on this or other registered 2,4-D labels. Follow more specific limitations, if any, provided in directions for specific crops. Labeled crops may be at risk of crop injury or loss if planted soon after application, especially during the first 14 days. Consider degradation factors described below in weighing this risk.

**Other Crops:** All other crops may be planted 30 days or more after application without concern for illegal residues in the planted crop. However, under certain conditions, there may be a risk of injury to susceptible crops. Consider degradation factors described below in weighing this risk. Under average conditions, any crop may be planted without risk of injury if at least 90 days of soil temperatures above freezing have elapsed since application.

**Degradation Factors:** When planting into treated areas, the risk of crop injury is less if lower rates of product were applied and conditions following application have included warm, moist soil conditions that favor rapid breakdown of 2,4-D. Risk is greater if higher rates of product were applied and soil temperatures have been cold and/or soils have been excessively wet or dry in the days following application. Consult your local agricultural extension service for information about susceptible crops and typical conditions in your area.

## Sorghum [Grain Sorghum (Milo) and Forage Sorghum]

Application Timing	GF-475 (pt/acre)	Specific Use Directions
postemergence <sup>1</sup>		Apply when sorghum is 6 to 15 inches tall. If
crop 6 - 8 inches tall	1/2 - 1 <sup>1</sup>	sorghum is more than 8 inches tall (top of canopy),
crop 8 - 15 inches tall (directed spray only)	3/4 - 1	use drop nozzles to keep spray off foliage. Do not use with oil or other adjuvants.  Do not treat during boot, flowering or dough stage.

<sup>&</sup>lt;sup>1</sup>Temporary crop injury can be expected under conditions of high soil moisture and high air temperatures. If it is necessary to apply GF-475 under these conditions, use no more than 2/3 pint per acre.

#### **Precautions:**

• Sorghum hybrids vary in tolerance to 2,4-D. Some are easily injured. Apply only to varieties known to be tolerant to 2,4-D. Consult the seed company or your agricultural experiment station or extension service weed specialist for this information.

#### Restrictions:

- Preharvest Interval: Do not apply within 30 days of grain harvest.
- Do not apply more than 1 pint of GF-475 (0.5 lb of acid equivalent) per acre per crop cycle.
- Do not permit meat or dairy animals to consume treated crop as fodder or forage for 30 days after application.
- Do not apply more than one postemergence application per year.

# Soybeans (Preplant Burndown Application Only) (Not for Use in California)

	GF-475	
Application Timing	(pt/acre)	Specific Use Directions
preplant (burndown)	3/4 - 1	Apply not less than 7 days before planting soybeans.
		See Precautions and Restrictions below.
	1 - 2	Apply not less than 15 days before planting soybeans.
		See Precautions and Restrictions below.

Use GF-475 to control emerged broadleaf weeds or existing cover crops. For best results, apply when weeds are small and actively growing. Use the higher rate in the rate range for larger weeds and when perennials are present. Compatible crop oil concentrates, agricultural surfactants and fluid fertilizers approved for use on growing crops may be added to spray mixtures to increase the herbicidal effectiveness on certain weeds. Read and follow all directions and precautions on this label and on the label of each product added to the spray mixture.

#### **Precautions:**

- Important Notice: Unacceptable injury to soybeans planted in treated fields may occur. Whether soybean injury occurs and the extent of such injury will depend upon weather (temperature and rainfall) from herbicide application until soybean emergence and agronomic factors, such as the amount of weed vegetation and previous crop residue present at the time of application. Injury is more likely under cool rainy conditions and where there is less weed vegetation and crop residue present.
- In treated fields, plant soybean seed as deep as practical, but not less than 1 inch deep. Adjust the planter, if necessary, to ensure that planted seed is adequately covered.

#### **Restrictions:**

- · Do not disturb treated soil through tillage between application and planting of soybeans.
- Do not use on sandy soils with less than 1% organic matter.
- Do not make more than one application per season regardless of the application rate used.
- Do not apply GF-475 as a preplant application in soybeans unless you are prepared to accept the results of soybean injury, including possible stand loss and/or yield reduction.
- During the growing season following application, do not replant treated fields with crops other than those labeled for use with GF-475.
- Do not apply more than 2 pints of GF-475 per acre per year.
- Do not allow livestock, grazing or harvest hay, forage, or fodder from treated fields. Restrict livestock from feeding/grazing of treated cover crops.

## Forestry, Rangeland, Established Pasture, and Non-Cropland Uses

**Agricultural Use Requirements for Forests (Except Tree Injection Use):** For use in forests, follow PPE and Reentry instructions in the "Agricultural Use Requirements" section of this label.

Agricultural Use Requirements for Rangeland, Pasture, Forest (Tree Injection Only) and Non-Cropland Areas: When this product is applied to rangeland and established pastures not harvested for hay or seed; non-cropland areas, and when applied by tree injection method only in forest sites, follow reentry requirements given in the "Non-Agricultural Use Requirements" section of this label.

#### **Forests**

# Forest site preparation, forest roadsides, brush control, established conifer release (including Christmas trees and reforestation areas)

Method of Application	GF-475	Specific Use Directions
annual weeds biennial and perennial broadleaf weeds and susceptible woody plants	2 - 4 pt/acre 4 - 8 pt/acre	Apply before the bud stage when weeds are small and growing actively. Apply before flower stalks appear, when biennial and perennial species are in the seedling to rosette stage. For difficult to control perennial broadleaf weeds and woody species, use up to 4 quarts of GF-475 plus 1 to 4 quarts of Garlon® 3A herbicide per acre.  For conifer release, apply in early spring before budbreak of conifers when weeds are small and actively growing.
spot treatment to control broadleaf weeds	1.28 fl oz/gal of spray solution (see instructions for Spot Treatment)	Note: To control broadleaf weeds in small areas with a hand sprayer, use an application rate equivalent to the broadcast rate specified for this treatment site and spray to thoroughly wet all foliage. Mix 1.28 fl oz per gallon of spray solution and apply through pump up sprayer or backpack sprayer. To improve coverage, add a nonionic surfactant. See rate conversion table and instructions for Spot Treatment and use of handheld sprayers under Application Directions.
conifer release: species including white pine, ponderosa pine, jack pine, red pine, black spruce, white spruce, red spruce, and balsam fir	1 1/2 - 3 qt/acre	To control competing hardwood species including alder, aspen, birch, hazel, and willow, apply from mid- to late summer when growth of conifer trees has hardened off and woody plants are still actively growing. Apply with ground or air equipment using sufficient spray volume to ensure complete plant coverage. Because this treatment may cause occasional conifer injury, do not apply if such injury cannot be tolerated.
directed spray: conifer plantations including pine	4 qt/100 gal	Apply when brush or weeds are actively growing by directing the spray so as to avoid contact with conifer foliage. Apply in oil, oil-water, or water carrier in a spray volume of 10 to 100 gallons per acre.
basal spray (may also be used in rangeland, pastures, and noncropland)	8 qt/100 gal	Thoroughly wet the base and root collar of all stems until the spray begins to accumulate around the root collar at the ground line. Wetting stems with the mixture may also aid in control.
surface of cut stumps (may also be used in rangeland, pastures, and noncropland)	1.75 fl oz/gal of water	Apply as soon as possible after cutting trees.  Thoroughly wet the cambium layer of the cut surface, being careful to wet the entire circumference.
frill and girdle (may also be used in rangeland, pastures, and noncropland)		Cut frills (overlapping V-shaped notches cut downward through the bark in a continuous ring around the base of the tree) using an axe or other suitable tool.  Saturate the freshly cut frills with the 2,4-D mixture.
tree injection (may also be used in rangeland, pastures, and noncropland)	1 - 2 mL per injection site	To control and prevent resprouting of unwanted hardwood trees including elm, hickory, oak, and sweetgum in forests and other noncrop areas, apply by injecting at a rate of 1 m: of undiluted GF-475 per inch of trunk diameter as measured at breast height (DBH), approximately 4 1/2 ft above the ground. Injection sites, however, should be as close to the root

Method of Application	GF-475	Specific Use Directions				
		collar as possible and the injection bit must penetrate the inner bark. Applications may be made throughout the year, but for best results apply between May 15 and October 15. Do not treat maples during the spring sap flow.  For hard to control species including ash, maple, and dogwood, use 2 mL of undiluted GF-475 per injection site or double the number of 1 mL injections.  Note: No Worker Protection Standard worker entry restrictions or worker notification requirements apply when this product is directly injected into agricultural plants.				

#### Restrictions:

- Do not allow sprays to contact conifer shoot growth (current year's new growth) or injury may occur.
- Do not apply to nursery seedbeds.
- For conifer release, do not use on plantations where larch is among the desired species.
- For broadcast applications, do not apply more than 8 pints of GF-475 per acre per 12-month period.
- For basal spray, cut surface stumps, and frill applications, do not apply more than 16.84 pints of GF-475 (8 lb of acid equivalent) per 100 gallons of spray solution.
- Grazing and Pre-harvest Interval: If grazing or hazying, do not apply more than 4 pints/acre per application. Do not harvest forage or hay from areas for 7 days after application. If treated area is grazed within 30 days of application, withdraw meat animals at least 3 days before slaughter.

# Rangeland, Established Grass Pastures (Including Perennial Grasslands not in Agricultural Production, Including Conservation Reserve Program Acres)

Target Weeds or Woody	GF-475	
Plants	(pt/acre)	Specific Use Directions
annual broadleaf weeds	2	For best results, apply before the bud stage when
biennial and perennial broadleaf weeds	2 - 4	weeds are small and growing actively. Apply when musk thistles or other biennial species are in the seedling to rosette stage and before flower stalks appear. Refer to the Weeds Controlled section for a listing of susceptible weed species and weeds that may be only partially controlled and require repeat applications and/or use of higher specified rates, even under ideal conditions of application
spot treatment to control broadleaf weeds	1.28 fl oz/gal of spray solution (see instructions for Spot Treatment)	Note: To control broadleaf weeds in small areas with a hand sprayer, use an application rate equivalent to the broadcast rates specified for this treatment site and spray to thoroughly wet all foliage. Mix 1.28 fl oz per gallon of spray solution and apply through pump up sprayer or backpack sprayer. To improve coverage, add a nonionic surfactant. See rate conversion table and instructions for Spot Treatment and use of handheld sprayers under Application Directions.
basal spray, cut surface, frill and girdle, and tree injection application methods		Refer to the Forests section for specific use instructions for these application methods.
wild garlic and wild onion	4	Make two applications per year starting in late fall or early spring.
broadleaf weed control in	2 - 4	Applications may be made postemergence. Follow

Target Weeds or Woody Plants	GF-475 (pt/acre)	Specific Use Directions			
newly sprigged coastal bermudagrass	(passers)	specific use directions for Rangeland and Established Grass Pastures above.			
sand shinnery oak sand sagebrush	2	Sand shinnery oak: Apply by aircraft between May 15 and June 15. Sand sagebrush: Apply by ground or aircraft when foliage is fully expanded and plants are actively growing. Use a 1:4 oil-water emulsion as carrier and a spray volume of 3 to 5 gallons per acre.			
big sagebrush rabbitbrush	4	Apply by ground or aircraft when foliage is fully expanded and plants are actively growing. Use a 1:4 oil-water emulsion as carrier and a spray volume of 3 to 5 gallons per acre. Re-treatment may be needed.			
chamise, manzanita, buckbrush, coastal sage, coyotebrush, and chaparral species.	4	Apply by ground or aircraft when foliage is fully expanded and plants are actively growing. Use water or a 1:4 oil-water emulsion as carrier and a spray volume of 5 to 10 gallons per acre. Retreatment may be needed.			
southern wild rose		Broadcast: Apply in a spray volume of 5 gallons or			
broadcast application spot treatment	up to 4 1.28 fl oz/gal of spray solution	more per acre by aircraft or 10 gallons or more per acre by ground equipment.  Spot treatment: Apply when foliage is well developed. Thorough coverage is required. Mix 1.28 fl oz per gallon of spray solution and apply through pump up sprayer or backpack sprayer. To improve coverage, add a nonionic surfactant. Two treatments or more may be required.  Do not exceed 4 pints per acre per application.			
CRP acres	For program lands including CRP, consult program rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be followed.				

#### **Restrictions:**

- **Preharvest Interval**: Do not apply within 7 days before forage or hay harvest. If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable.
- Do not use on bentgrass, alfalfa, clover, or other legumes.
- Do not use on newly seeded areas until grass is well established.
- Do not use from early boot to milk stage where grass seed production is desired.
- For susceptible annual and biennial weeds: Do not apply more than 1 lb ae per acre per application.
- For moderately susceptible biennial and broadleaf weeds, difficult to control weeds and woody plants: Do not apply more than 2 lb ae per acre per application.
- **Spot Treatment**: Do not apply more than 2 lb ae per acre per application.
- Do not make more than two applications per year
- The maximum application rate is 4 lb ae per acre per year.
- The minimum re-treatment interval is 30 days.
- In grazed areas, do not apply more than 4 pt/acre per application.
- If treated area is grazed within 30 days of application, withdraw meat animals at least 3 days before slaughter.

#### Non-Cropland

fencerows, hedgerows, roadsides, rights-of way, utility power lines, and railroads

Treatment Site or	GF-475	
Method of Application	(pt/acre)	Specific Use Directions
annual broadleaf weeds	2 - 4	Apply before the bud stage when annual weeds are
biennial and perennial	4	small and growing actively. Biennial and perennial weeds should be rosette to bud stage, but not
susceptible woody plants on rights-of-way	4 - 8	flowering at the time of application. For difficult to control perennial broadleaf weeds and woody species, tank mix up to 4 quarts of GF-475 plus 1 to 4 quarts of Garlon 3A per acre. Oil or wetting agent may be added to the spray, if needed, for increased effectiveness.  It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitarions and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.  Ground application: For high volume sprays, apply a total spray volume of 100 to 400 gallons per acre. For low volume sprays, apply in a total spray volume of 10 to 100 gallons per acre.  Helicopter: Apply a total spray volume of 5 to 30 gallons per acre.
spot treatment to control broadleaf weeds	1.28 fl oz/gal of spray solution (see instructions for Spot Treatment)	Note: To control broadleaf weeds in small areas with a hand sprayer, use an application rate equivalent to the broadcast rates specified for this treatment site and spray to thoroughly wet all foliage. Mix 1.28 fl oz per gallon of spray solution and apply through pump up sprayer or backpack sprayer. To improve coverage, add a nonionic surfactant. See rate conversion table and instructions for Spot Treatment and use of handheld sprayers under Application Directions.
basal spray, cut surface, frill tree injection application me		Refer to the Forests section for specific use instructions for these application methods.
southern wild rose		Broadcast: Apply in a spray volume of 5 gallons or
broadcast application	up to 4	more per acre by aircraft or 10 gallons or more per
spot treatment	1.28 fl oz/gal of spray solution	acre by ground equipment.  Apply when foliage is well developed. Thorough coverage is required. Mix 1.28 fl oz per gallon of spray solution and apply through pump up sprayer or backpack sprayer. To improve coverage, add a nonionic surfactant. Two treatments or more may be required.

## **Precautions:**

• Bentgrass, St. Augustine, clover, legumes and dichondra may be severely injured or killed by this treatment.

## **Restrictions:**

- Do not apply to newly seeded areas until grass is well established.
- **Woody plants:** Do not apply more than 8 pints of GF-475 (4 lb of acid equivalent) per acre per year. Do not make more than one application per season.

- •• Annual and perennial weeds: Do not apply more than 4 pints of GF-475 (2 lb of acid equivalent) per acre per application or make more than two applications per season.
- Do not reapply to a treated area within 30 days of a previous application.
- Grazing and Pre-harvest Interval: If grazing or hazying, do not apply more than 4 pints/acre per application. Do not harvest forage or hay from areas for 7 days after application. If treated area is grazed within 30 days of application, withdraw meat animals at least 3 days before slaughter.

## **Turfgrass Uses**

#### **Grasses Grown for Seed or Sod**

**Agricultural Use Requirements:** When used in grass grown for seed or sod farms, follow PPE and reentry instructions in the "Agricultural Use Requirements" section of this label.

Treatment Site and Application Timing	GF-475 (pt/acre)	Specific Use Directions			
grasses grown for seed postemergence use		Apply when weeds are small and actively growing. For best results, apply when soil moisture is			
seedling grass five-leaf stage or later	3/4 - 1	adequate for active weed growth.  Do not apply to newly seeded grasses until well			
well-established grasses	1 - 4	established (five-leaf stage or later) and then use a maximum of 1 pint per acre. Cool season grasses are more tolerant to higher rates.  Do not apply to grass in the early boot through milk stage if seed production is desired.  When grass is well established, higher rates of up to 4 pints per/acre may be applied for control of hard to kill annual or perennial weeds.			
sod farms postemergence	2 - 4	Deep-rooted perennials, such as bindweed and Canada thistle, may require repeat applications.  Avoid mowing sod farms for 1 to 2 days before or after application.  Delay irrigation until the day following application.			

#### **Precautions:**

• **Reseeding:** Delay reseeding at least 30 days following application. Preferably, with spring application, reseed in the fall, and with fall application, reseed in the spring.

## **Restrictions:**

- Preharvest Interval: Do not apply within 7 days before cutting grass for hay from treated areas.
- Do not use on creeping grasses, such as bentgrass, except for spot treatment.
- · Do not use on susceptible southern grasses, such as St. Augustinegrass.
- Do not use on dichondra or other herbaceous groundcovers; legumes may be damaged or killed.
- Do not reapply to a treated area within 21 days of a previous application.
- Do not make more than two applications of GF-475 per year.
- Do not apply more than 8 pints of GF-475 per acre per year.
- Grazing and Pre-harvest Interval: If grazing or hazying, do not apply more than 4 pints/acre per application. Do not harvest forage or hay from areas for 7 days after application. If treated area is grazed within 30 days of application, withdraw meat animals at least 3 days before slaughter.

# Ornamental Turfgrass (Excluding Grasses Grown for Seed or Sod Farms) includes lawns, golf courses, cemeteries and parks, airfields, roadsides and vacant lots

**Use Requirements for Ornamental Turf Areas:** When this product is applied to ornamental turf areas, follow PPE and reentry instructions in the "Non-agricultural Use Requirements" section of this label.

Treatment Site and	GF-475	

Application Timing	(pt/acre)	Specific Use Directions
ornamental turfgrass postemergence		Apply when weeds are small and actively growing.  For best results, apply when soil moisture is
seedling grass (five-leaf stage or later)	3/4 - 1	adequate for active weed growth.  Deep-rooted perennial weeds, such as bindweed
well-established turfgrass	2 - 3	and Canada thistle, may require repeat
biennial and perennial broadleaf weeds	3	applications.  Do not apply to newly seeded grasses until well established (five-leaf stage or later) and then use a maximum of 1 pint per acre. Cool season turfgrasses are tolerant of higher rates.

#### **Precautions:**

• **Reseeding:** Delay reseeding at least 30 days following application. Preferably, with spring application, reseed in the fall, and with fall application, reseed in the spring.

#### **Restrictions:**

- · Do not use on creeping grasses, such as bentgrass, except for spot treatment.
- Do not use on susceptible southern turfgrasses, such as St. Augustinegrass.
- Do not use on dichondra or other herbaceous groundcovers; legumes may be damaged or killed.
- Do not make more than two broadcast applications per treatment site per year (does not include spot treatments).
- Do not apply more than 3 pints of GF-475 per acre per application.
- Do not apply more than 6 pints of GF-475 per acre per season, excluding spot treatments.
- Grazing and Pre-harvest Interval: If grazing or hazying, do not apply more than 4 pints/acre per application. Do not harvest forage or hay from areas for 7 days after application. If treated area is grazed within 30 days of application, withdraw meat animals at least 3 days before slaughter.

### **Terms and Conditions of Use**

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, to the extent permitted by law, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

## Warranty Disclaimer

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT PERMITTED BY LAW, Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

## **Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. To the extent permitted by law, all such risks shall be assumed by buyer.

#### **Limitation of Remedies**

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent permitted by law, Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. To the extent permitted by law, in no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or Limitation of Remedies in any manner.

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