



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

103087-18

Date of Issuance:

2/11/26

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

MORALE Plus WDG

Name and Address of Registrant (include ZIP Code):

Longwind Cropscience USA LLC  
c/o REACH24H USA INC.  
11921 Freedom Drive, Suite 550  
Reston, VA 20190 USA

**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 (FIFRA).

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/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

*Continues page 2*

Signature of Approving Official:

Nathan Mellor, Chief  
Fungicide Herbicide Branch, Registration Division (7505T)

Date:

2/11/26

2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 103087-18."
3. Submit one copy of the 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 FIFRA 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) lists 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.

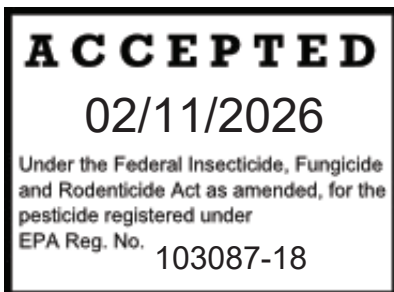
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 05/19/2025

If you have any questions, please contact Hector Escobar at 202-566-1371 or at [escobar.hector@epa.gov](mailto:escobar.hector@epa.gov).

Enclosure: Stamped Label



Bromacil	Group	5	Herbicide
Diuron	Group	5	Herbicide

Primary Brand Name:

**MORALE Plus WDG**

Alternate Brand Names:

**BROMACIL 40%+DIURON 40% WG**

**Herbicide**

**Dispersible granules**

**ACTIVE INGREDIENT:**

**%BYWT**

Bromacil: [5-bromo-3-sec-butyl-6-methyluracil] ..... 41.1%

Diuron: [3-(3,4-dichlorophenyl)-1,1-dimethylurea]..... 41.1%

**OTHER INGREDIENTS:**..... **17.8%**

**TOTAL 100.0%**

**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.)*

Manufactured for:  
Longwind Cropsience USA LLC  
8 THE GREEN, STE A,  
DOVER, Kent, DE, 19901, United States

**EPA Reg. No. 103087-**

**EPA Est. No.**

**Net Weight:** \_\_\_\_\_

<b>FIRST AID</b>	
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<ul style="list-style-type: none"> <li>• Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</li> <li>• You may also contact 1-800-222-1222 for emergency medical treatment information.</li> </ul>	

In case of spills, fire, leaks or accident, call 1-800-535-5053.

[Optional Text: See inside label booklet for additional Precautionary Statements and Directions for Use.]

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

Harmful if swallowed, absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Wear (specify appropriate protective clothing, if applicable).

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below.

**Flaggers and ground boom applicators must wear:**

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

In addition to the above PPE, groundboom applicators must also wear: chemical-resistant gloves (including barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils or viton ≥ 14 mils.).

**Mixers, loaders, other applicators, and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves (including barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils or viton ≥ 14 mils.).
- A NIOSH approved dust/mist filtering respirator with any N, R, P, or HE filter or with approval number prefix TC-21C.
- Chemical-resistant apron when mixing, loading, or cleaning equipment or spills.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

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

**ENGINEERING CONTROL STATEMENT**

When handlers use closed systems or enclosed cabs, 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.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- 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**

For terrestrial uses, **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when cleaning equipment or disposing of equipment washwaters. Bromacil is known to leach through soil and has been found in ground water as a result of normal field use. Users are advised not to apply in areas where soils are permeable, particularly where ground water is used for drinking water. Consult with the pesticide state lead agency for information regarding soil permeability and aquifer vulnerability in your area. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This pesticide is toxic to birds, fish, and aquatic invertebrates.

**GROUNDWATER ADVISORY:** Diuron is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

**NON-TARGET ORGANISM ADVISORY:** This product is toxic to plants and may adversely impact the forage and habit of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

**SURFACE WATER ADVISORY:** This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a medium potential for reaching both surface water and aquatic sediment via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of diuron from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

**REPORTING ECOLOGICAL INCIDENTS:** To report ecological incidents, including mortality, injury, or harm to plants and animals, call +86-15868088686.

## GENERAL INFORMATION

MORALE Plus WDG is formulated as a dispersible granule to be mixed in water. It is to be sprayed in citrus for selective weed control and on non-crop areas for non-selective control of weeds. MORALE Plus WDG controls many annual weeds at the lower label rates and certain perennial weeds at the highest label rates.

Moisture is necessary to move MORALE Plus WDG into the root zone of susceptible weeds and brush. Application to moist soil or to soil where moisture from rainfall or sprinkler irrigation occurs within 14 days of application will provide the best control. Symptoms of control will be slow to appear because the product must first move into the root zone of the susceptible plants. The level and length of weed and brush control will be dependent upon the amount of herbicide applied, soil texture, amount of moisture applied and other soil and water management practices.

When an adjuvant is to be used with this product, Longwind Cropscience USA LLC suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

## USE PRECAUTIONS AND RESTRICTIONS

If you plan to use MORALE Plus WDG for selective weed control in citrus or for non-selective weed control in non-crop areas, adhere to the following:

1. **DO NOT** use in any recreational areas or around homes.
2. To prevent injury or loss to desirable plants and trees:
  - a. **DO NOT** apply except as instructed by this label.
  - b. Thoroughly clean all traces of MORALE Plus WDG from application equipment - tank, pump, hoses, etc. - immediately after use by thoroughly washing/rinsing with several changes of water after removing nozzle tips and screens (clean these parts separately).
  - c. **DO NOT** drain or clean equipment near desirable trees or other plants, or onto areas where roots of desirable trees and plants may extend, or onto areas where MORALE Plus WDG may be washed or moved into contact with roots of desirable trees and plants.
  - d. **DO NOT** use on lawns, walks, driveways, tennis courts, or similar areas.
  - e. Prevent drift of dry powder or spray to desirable plants.
  - f. **DO NOT** store and handle MORALE Plus WDG around fertilizers, insecticides, fungicides, or seeds.
  - g. **DO NOT** use in home fruit planting, or in citrus orchards interplanted to other trees or desirable plants.
3. **DO NOT** apply MORALE Plus WDG through any type of irrigation system.
4. **DO NOT** graze cattle in treated areas.
5. Only citrus may be planted into treated areas and only after one year of the last application.
6. Other crops may not be planted until 2 years after the last application.
7. Mechanically-pressurized handgun application of this product.
8. Aerial application is prohibited.
9. **DO NOT** treat frozen or saturated soils, or soils that are non-receptive to percolation.
10. **DO NOT** apply to sites which have roots of desirable plants growing into the treatment zone as plant injury or death may occur.
11. **DO NOT** apply to hard or impervious soils, water saturated soils or to any surface that does not allow the herbicide to be moved into the soil horizon with moisture.

## MIXING

Sprayers should be properly calibrated with clean water only and checked regularly during operation.

It is important to accurately measure MORALE Plus WDG and to only mix enough spray mixture for the job at hand. The spray tank should not be over-filled. Excess spray mixture should be diluted and applied at labeled rates/uses. It should never be discharged at a single location in the field/grove or at the mixing/loading location.

**DO NOT** store or mix near well site.

### **CROP ROTATION BIOASSAY**

In sites where MORALE Plus WDG has been used, a field bioassay should be completed prior to planting any desired crop. In arid climates (10 inches of rainfall or less) or areas where drought conditions have prevailed for one or more years, a field bioassay should be completed prior to planting any desired crop.

A successful field bioassay means growing to maturity a test strip of the crop(s) intended for production. The test strip should cross the entire field including knolls and low areas. The results from the bioassay may require the two-year crop rotation interval to be extended.

### **SPRAY PREPARATION**

**Mixing in water:** Fill tank ½ full with water. Start agitation system, add MORALE Plus WDG and continue adding water. Add separately each additional component of any tank-mix while adding water. Continue agitation throughout.

**Mixing in liquid fertilizer:** A fertilizer solution may be used in the spray mixture. Small quantities should be tested for compatibility by the following procedures before full scale mixing:

1. Put 1 pint fertilizer solution in a quart jar.
2. Mix 2 teaspoons MORALE Plus WDG with 2 tablespoons of water: mix thoroughly and add to fertilizer solution.
3. Close jar and shake well.
4. If other herbicides are used in the mixture, premix 2 teaspoonfuls of dry materials or 1 teaspoonful of liquids with 2 tablespoons of water; add to MORALE Plus WDG fertilizer solution mixture.
5. Close jar and shake well.
6. Watch mixture for several seconds; check again in 30 minutes.
7. If mixture does not separate, foam, gel, or become lumpy, it may be used.

Provided the above procedure shows the mixture to be compatible, prepare the tank mixture as follows: add the fertilizer solution to the spray tank first; with agitator running, add the required amount of MORALE Plus WDG and mix thoroughly.

**Mixing with other herbicides:** Determine the tank mixture partner(s) compatibility with MORALE Plus WDG by following the directions above. For Step 1 above, use 1 pint of water instead of the liquid fertilizer. Provided the above procedure shows the mixture to be compatible, MORALE Plus WDG may be used in this tank mixture.

### **SPRAY TANK CLEAN OUT**

Thoroughly clean all traces of MORALE Plus WDG, from application equipment immediately after use. Flush the tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Dispose of the equipment wash water by applying it to a use-site listed on this label.

### **WEED RESISTANCE MANAGEMENT**

For resistance management, please note that MORALE Plus WDG contains two Group 5 herbicides: bromacil and diuron. Any weed population may contain plants naturally resistant to Group 5 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same use site. Appropriate resistance-management strategies should be followed. To delay herbicide resistance take one or more of the following steps:

- Avoid the consecutive use of MORALE Plus WDG or other target site of action Group 5 herbicides that might have a similar target site of action, on the same weed species.
- Use tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern. 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 limitations 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.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program .
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective and to monitor weed populations for early signs of resistance development.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.



Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Report any incidence of non-performance of this product against a particular weed species to your Longwind CropScience USA LLC retailer or representative. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

#### INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants, or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. MORALE Plus WDG herbicide should only be used in accordance with recommendations on this label. **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.

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition et al vs EPA. Col-132C (W.D.W.A.).

**Endangered Species Protection Requirements:** It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product.

**Windspeed restrictions:** **DO NOT** apply when wind speeds exceed 10 mph.

**Rain restrictions:** **DO NOT** apply this product when soil is saturated. **DO NOT** apply when a storm event likely to produce runoff from the treated area is forecasted (by NOAA/National Weather Service, or other similar forecasting service) to occur within 48 hours following application.

**DO NOT** apply MORALE Plus WDG to intermittently flooded low lying sites, marshes, swamps, and bogs that may be seasonally connected to habitats that contain listed salmonids.

#### AGRICULTURAL USES

##### 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
- Shoes plus socks
- Chemical-resistant gloves (including barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, natural rubber  $\geq$  14 mils, polyethylene, polyvinyl chloride (PVC)  $\geq$  14 mils or viton  $\geq$  14 mils.)

#### APPLICATION INFORMATION

MORALE Plus WDG should be applied as a band or broadcast treatment with a calibrated fixed-boom power sprayer with nozzles equipped with 50 mesh or larger screens. Shut off spray booms when starting, turning, slowing or stopping because higher than labeled use rates may be applied and injury to the crop or successive crops could occur. Use rates provided below for MORALE Plus WDG are expressed for broadcast treatments. If band treatments are applied, then proportionately less MORALE Plus WDG should be used. A minimum of 10 gallons spray volume per acre should be used to insure proper suspension of the product in the spray tank. Sufficient spray volume should be used to allow for uniform coverage of the sprayed area. Continuous agitation in the spray tank with mechanical or hydraulic means (**DO NOT** use air agitation) is necessary to keep MORALE Plus WDG in suspension. If by-pass or return line agitation is used, it should terminate at the bottom of the tank to decrease foaming. When using MORALE Plus WDG alone or in tank mixture thoroughly re-agitate if allowed to settle.

Applications should be made at any time of the year provided rainfall or overhead irrigation is available to activate the herbicide, preferably just before or just after weeds have germinated. Best results are obtained when MORALE Plus WDG is applied to bare ground. If weeds are already present, a tank-mixture of MORALE Plus WDG with a foliar active herbicide is recommended (See Tank Mixtures section of the label). Control dense populations of hard-to-kills weeds with other herbicides before making an application of MORALE Plus WDG.

#### **WEEDS CONTROLLED (annuals)**

Barnyardgrass	<i>Echinochloa crus-gali</i>
Brome, downy (cheatgrass)	<i>Bromus tectorum</i>
Chickweed, common	<i>Stellaria media</i>
Chickweed, mouseear	<i>Cerastium vulgatum</i>
Clovers, (annual)	<i>Trifolium</i> spp.
Filaree	<i>Erodium</i> spp.
Fleabane, flaxleaved (hairy)	<i>Conyza bonariensis</i>
Foxtail	<i>Setaria</i> spp.
Goatweed	<i>Scopariadulcis</i>
Groundsel	<i>Senecio</i> spp.
Horseweed (maretail)	<i>Conyza canadensis</i>
Johnsongrass	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colona</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarter	<i>Chenopodium album</i>
Lettuce, wild	<i>Lactuca serriola</i>
Mustard, wild	<i>Brassica kaber</i>
Natalgrass (red top)	<i>Rhynchelytrum repens</i>
Nightshade (annual)	<i>Solanum</i> spp.
Pigweed	<i>Amaranthus</i> spp.
Pineappleweed	<i>Matricaria matricariodes</i>
Puncturevine, common	<i>Tribulusterrestris</i>
Purslane, common	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scraba</i>
Ragweed, common	<i>Ambrosia artemisiifolia</i>
Sandbur(sandspur)	<i>Cenchrus</i> spp.
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Sowthistle, annual	<i>Sonchus oleraceus</i>
Spanishneedles	<i>Bidens pilosa</i>
Thistle, Russian	<i>Salsola australis</i>

#### **WEEDS CONTROLLED (Perennials) (at maximum rates and repeat treatments)**

Balsamapple vine (seedling)	<i>Momordica charantia</i>
Bermudagrass	<i>Cynodon dactylon</i>
Drymary	<i>Drymaria</i> spp.
Guineagrass	<i>Panicum maximum</i>
Milkweed vine (strangler)	<i>Morrenia odorata</i>
Quackgrass	<i>Agropyron repens</i>
Vines (seedlings)	



**NOTE:** Best control of perennial weeds is obtained when the highest rates of MORALE Plus WDG is applied. Repeat applications are usually necessary to control perennials. To improve control of perennials, cultivate prior to treatment. After treatment with MORALE Plus WDG, avoid cultivation as long as weed control is holding. Working the soil after treatment could result in reduced weed control.

## CITRUS

MORALE Plus WDG may be applied in citrus for control of the annual and perennial weeds listed above. Applications should be made at anytime of the year provided rainfall or overhead irrigation is available to activate the herbicide, preferably just before or just after weeds have germinated. The degree and duration of control will vary with the amount of herbicide applied, soil texture, rainfall and other conditions. It is non-corrosive to equipment, non-flammable and non-volatile.

Apply MORALE Plus WDG as a band or broadcast treatment beneath and/or between trees. Avoid contact of foliage and fruit with spray or mist. Avoid overlapping and shut off spray boom while starting, turning, or stopping as injury to trees may result. Temporary yellowing of citrus leaves may occur following treatment.

- a. **DO NOT** use on soils with less than 1% organic matter.
- b. **DO NOT** use on poorly drained soils, gravelly soils or thinly covered or exposed subsoils.
- c. **DO NOT** treat trees planted in irrigation furrows.
- d. **DO NOT** treat diseased or stressed citrus trees.
- e. **DO NOT** use in citrus groves inter-planted with other desirable trees or plants or in areas where roots of desirable trees or plants may extend as injury to desirable trees or plants may result.
- f. **DO NOT** use in home citrus plantings.
- g. **DO NOT** apply at less than 60-day intervals when making multiple applications to trees less than 4 years old or 80-day intervals to trees 4 years old and older. A maximum of 2 applications of product per year is permitted.
- h. **DO NOT** harvest citrus until 7 days after the last application.
- i. Mechanically-pressurized handgun application of this product on citrus is prohibited.
- j. Aerial application is prohibited.

All traces of MORALE Plus WDG must be removed from the application equipment immediately after use. Remove nozzles and screens and clean separately. Several changes of water should be run through the application equipment.

## CALIFORNIA, ARIZONA

### Trees Established for at least Three Years:

Apply MORALE Plus WDG in late fall or early winter before winter annuals become established. Wait to apply treatment until after the soil has been settled by fall or early winter rains. Apply as needed, 3.89 to 4.87 pounds MORALE Plus WDG per acre on course soils (1-2% organic matter) and 4.87-5.84 pounds MORALE Plus WDG per acre on fine soils (2.5% or greater organic matter). Alternatively, apply 2.92-3.89 pounds per acre in the fall and 1.95-3.89 pounds in the spring. **DO NOT** exceed 5.84 pounds per acre per year. If problem weeds like groundsel or pucturevine are present at the location, use the highest rates allowed on this label according to soil type. These rates will also suppress low levels of bermudagrass and yellow nutsedge. Best results will occur if this treatment is applied annually.

## FLORIDA

Apply MORALE Plus WDG as a band treatment only in Florida citrus groves. **DO NOT** apply trunk to trunk. The use of MORALE Plus WDG is prohibited for weed control in non-bedded citrus groves located on any permeable, better drained soil identified in the intended site of application. Permeable, better drained soils which occur in citrus producing areas of the state include soil unnamed and charlatanistic of Quartzipsamments, and the following soil series classifications:

Adamsville	Archbold	Astatula
Bahiahonda	Broward	Canaveral
Candler	Cocoa	Dade
Florahome	Fort Meade	Gainseville
Lake	Lakewood	Neilhurst
Orlando	Orsino	Palm Beach
Paola	Satellite	St. Augustine
St. Lucie	Tavares	

## APPLICATION INSTRUCTIONS

Since all use rates for MORALE Plus WDG are expressed for broadcast treatments, use proportionately less per acre for band treatments in Florida. Multiple applications may be required for control of some problem weeds.

**Note:** **DO NOT** apply more than 15.57 pounds per acre of MORALE Plus WDG per year. This corresponds to 6.4 pounds per treated acre of bromacil and 6.4 pounds per treated acre of diuron. These amounts represent the maximum allowable use rates for bromacil and diuron on citrus inclusive of all formulations of bromacil or diuron that might be used.

**Trees Established Less Than One Year:** For control of annual weeds, apply 1.95-3.89 pounds of MORALE Plus WDG per treated acre as needed to maintain weed control. **DO NOT** apply more than 5.84 pounds per treated acre during the any 6 month period nor more than 7.79 pounds per treated acre during the 1st year.

**Trees Established One to Three Years:** For control of annual weeds, apply 1.95-3.89 pounds of MORALE Plus WDG per treated acre. A second application may be made when needed to maintain weed control, but **DO NOT** exceed 7.79 pounds per treated acre per year.

**Trees Established Three or More Years:** Apply 3.89-7.79 pounds per treated acre as needed to maintain weed control. **DO NOT** apply more than 15.57 pounds of MORALE Plus WDG per treated acre per year.

## LOUISIANA

**Trees Established for at least Three Years:** On course soils, apply MORALE Plus WDG at 1.95 to 3.89 pounds per acre whereas on finer soils (2.5% or greater organic matter) apply MORALE Plus WDG at 3.89 to 5.84 pounds per acre. Use the highest labeled rates for suppression of perennials. Alternatively, make two applications per year for weed control using 1.95 pounds per acre on coarser soils and 2.92 pounds per acre of finer soils. In either case, **DO NOT** apply more than 5.84 pounds MORALE Plus WDG per treated acre per year.

## TEXAS

**Trees Established Less Than One. Year:** Apply 1.95-3.89 pounds of MORALE Plus WDG per acre as needed to maintain weed control. **DO NOT** apply at less than 60 day intervals. **DO NOT** apply more than 5.84 pounds per acre per year.

**Trees Established One or Two Years:** Apply 1.95-3.89 pounds of MORALE Plus WDG per acre. A second application may be made when needed to maintain weed control, but **DO NOT** exceed 5.84 pounds per acre per year.

**Trees Established Three or More Years:** Make one to two applications per year as needed to maintain weed control. Use 1.95-3.89 pounds per acre on coarser soils (sands, loamy sands, sandy loams) and 3.89-5.84 pounds per acre on finer soils (silt loams, clay loams, or soils with organic matter of 2.5% or more). Use the higher rate for maximum suppression of perennials. **DO NOT** use more than 5.84 pounds per acre per year.

## TANK MIXTURES

To achieve a broader spectrum of weed control in citrus, MORALE Plus WDG maybe tank mixed with other herbicides registered for use in citrus. Be sure to follow the use information and restrictions on the labels of the tank-mix herbicides. The label guidelines that are the most restrictive must be followed. Adjuvants used with herbicides in citrus may also be tank-mixed with MORALE Plus WDG.

**Note:** If the user has no experience with a particular tank-mixture, a jar-compatibility test should be performed to determine chemical compatibility of the products before they are mixed in the spray tank. See the SPRAY PREPARATION section of this label above for additional details.

## NON-AGRICULTURAL USES

### 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.

Non-crop weed control is not within the scope of the Worker Protection Standard.

**DO NOT** enter or allow others to enter the treated area until sprays have dried.

### USE RESTRICTIONS - STATE OF FLORIDA

In the state of Florida, the use of MORALE Plus WDG is prohibited in the counties of Hardee, Highland, Polk, Orange, and Lake. For Non-Agricultural Usage in all other areas of the state, **DO NOT** apply more than 15.57 pounds per acre per year of MORALE Plus WDG. This corresponds to 6.4 pounds per treated acre of bromacil and 6.4 pounds per treated acre of diuron. These amounts represent the maximum allowable use rates for bromacil and diuron inclusive of all formulations of bromacil or diuron that might be used.

### APPLICATION INFORMATION

For general weed control in uncultivated non-agricultural areas (for example, airports, highway, railroad and utility rights-of-way, sewage disposal areas), uncultivated non-crop producing areas (for example, farmyards, fuel storage areas, fence rows, barrier strips) and outdoor industrial sites (for example, lumberyards, pipeline and tank farms) apply MORALE Plus WDG using a properly calibrated fixed-boom power sprayer. Use rates provided below for MORALE Plus WDG are expressed for broadcast treatments. If band treatments are applied, then proportionately less MORALE Plus WDG should be used. A minimum of 10 gallons spray volume per acre should be used to insure proper suspension of the product in the spray tank. Sufficient spray volume should be used to allow for uniform coverage of the sprayed area. Continuous agitation in the spray tank with mechanical or hydraulic means ( **DO NOT** use air agitation) is necessary to keep MORALE Plus WDG in suspension. If by-pass or return line agitation is used, it should terminate at the bottom of the tank to decrease foaming. When using MORALE Plus WDG alone or in tank mixture thoroughly re-agitate if allowed to settle.

A broader spectrum of weeds may be controlled by tank-mixing MORALE Plus WDG with other herbicides. Also, higher rates of MORALE Plus WDG applied with residual herbicides will provide total vegetation control. Always add a suitable surfactant at 0.25% v/v when attempting to control emerged weeds.

**Note:** Use a spray volume of at least 40 gallons per acre to insure uniform coverage.

1. **DO NOT** apply more than two applications per year.
2. The minimum retreatment interval is 90 days.
3. **DO NOT** apply more than 12 pounds active ingredient bromacil per year.
4. **DO NOT** apply more than 12 pounds active ingredient diuron per year in areas of high rainfall or dense vegetation. **DO NOT** apply more than 8 pounds active ingredient diuron in all other areas.

## NON-CROP WEED CONTROL

### APPLICATION RATES AND TIMING

MORALE Plus WDG should be applied at the rates provided in, the tables below according to weed type. Lower rates of MORALE Plus WDG provide short-term control of the weeds listed whereas higher rates provide more residual control. Always apply as a preemergence spray when weeds are actively germinating or growing. Since moisture is required to move the herbicide into the root zone of the weeds, best preemergence control is obtained when MORALE Plus WDG is applied prior to a rainfall and weed germination. In areas of low and infrequent rainfall, such as the Western U.S., MORALE Plus WDG should be applied well before the Fall freeze or immediately after the Spring thaw to increase the chances of having adequate moisture to activate and disperse the herbicide in the soil.

Unusually heavy rainfall shortly after application may move the product off-target to the lowest surrounding point and cause plant injury or death.

If herbicide treated soil is disturbed by any physical or mechanical means, the herbicide barrier is disrupted and the likelihood of non-performance may increase. For best performance results, make sure the treatment area is stable after the application for the desired weed control period.

### WEEDS CONTROLLED

MORALE Plus WDG effectively controls the following broadleaf weeds and grasses when applied at the rates shown. Broadleaf Weeds: 5.84-7.79 pounds per acre

Clovers (annual)	<i>Trifolium</i> spp.
Fiddleneck	<i>Amsinckia intermedia</i>
Filaree	<i>Enulium</i> spp.
Knapweed, diffuse	<i>Centaurea diffusa</i>
Lambsquarter, common	<i>Chenopodium album</i>
Lettuce, prickly	<i>Lactuca serriola</i>
Mustards	<i>Brassica</i> , spp.
Pigweed	<i>Amaranthus</i> spp.
Raaweed	<i>Ambrosia</i> spp.
Sunflower, common	<i>Helianthus annuus</i>
Thistle, Russian	<i>Salsola iberica</i>

### Broadleaf Weeds: 7.90 pounds per acre

Carrot, wild	<i>Daucus carota</i>
Dandelion, common	<i>Taraxacum officinale</i>
Dock, curly	<i>Rumex crispus</i>
Knapweed, spotted	<i>Centaurea maculosa</i>
Knotweed, prostrate	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Marestail, common (horseweed)	<i>Conyza canadensis</i>
Parsnip, wild	<i>Pastinaca sativa</i>
Plantain	<i>Plantago</i> spp.
Puncturevine	<i>Tribulus terrestris</i>
Spurge	<i>Euphorbia</i> spp.
Thistle, milk	<i>Silybum marianum</i>
Yarrow, common	<i>Achillea millefolium</i>

### Broadleaf Weeds: 11.68-15.57 pounds per acre

Cinquefoil, common	<i>Potentilla Canadensis</i>
Goldenrod	<i>Solidago</i> spp.

Milkweed, common	<i>Asclepias syriaca</i>
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**Grasses: 5.84-7.79 pounds per acre**

Barley, foxtail	<i>Hordeum jubatum</i>
Brome	<i>Bromus</i> spp.
Cheat	<i>Bromus secalinus</i>
Cuorass, Prairie	<i>Erioch/oa contracta</i>
Foxtail	<i>Setaria</i> spp.
Oat, wild	<i>Avena fatua</i>
Ryearass, Italian	<i>Lolium multiflorum</i>
Quackgrass	<i>Agropyron repens</i>
Wheatgrass, intermediate	<i>Agropyron intermedium</i>

**Grasses: 7.79-11.68 pounds per acre**

Bahiagrass	<i>Paspalum nota tum</i>
Crabgrass <i>Digitaria</i> spp.	<i>Digitaria</i> spp.
Goosegrass	<i>Eleusine indica</i>
Rye	<i>Secale cereale</i>
Vaseygrass <i>Paspalum urvillei</i>	<i>Paspalum urvillei</i>

**Grasses: 11.68-15.57 pounds per acre**

Bluegrass	<i>Poa</i> spp.
Dropseed, sand*	<i>Sporobolus cryptandrus</i>
Fescue	<i>Festuca</i> spp.
Saltgrass*	<i>Distichlis</i> spp.

**\*Note:** Best control of Saltgrass and Sand Dropseed is achieved from a Spring application prior to plant green-up. For control of hard-to-kill perennials such as bermudagrass (*Cynodon dactylon*), bouncingbet (*Saporaria officinalis*), dogbane (*Apocynum* spp.), Johnsongrass (*Sorghum halepense*), and nutsedge (*Cyperus* spp.), apply 18.49-29.20 pounds per acre (except Florida).

For extended control of annual weeds and partial control of perennials such as bermudagrass and nutsedge apply 9.73-17.52 pounds\* per acre. Use the higher MORALE Plus WDG rates on adsorptive soils (high in organic matter or carbon). Best results occur when application is made just before weed emergence or in the early stages of weed growth.

Retreating: Apply 3.89 to 5.84 pounds per acre when annual weeds and grasses reappear on sites where weed growth has been controlled.

Small areas: ¼ cupful of MORALE Plus WDG per 200 sq. ft. is approximately 14.60 pounds per acre.

**TANK MIXTURES**

To achieve a broader spectrum of weed control in non-crop areas, MORALE Plus WDG may be tank mixed with other herbicides registered for such use. Be sure to follow the use information and restrictions on the labels of the tank-mix herbicides. The label guidelines that are the most restrictive must be followed. Adjuvants used with herbicides in non-crop areas may also be tank-mixed with MORALE Plus WDG.

**Note:** If the user has no experience with a particular tank-mixture, a jar-compatibility test should be performed to determine chemical compatibility of the products before they are mixed in the spray tank. See the SPRAY PREPARATION section of this label above for additional details.

Be sure to thoroughly re-agitate the contents of the spray tank if allowed to settle out.

**SPECIAL USES  
UNDER ASPHALT AND CONCRETE PAVEMENT**

**APPLICATION INFORMATION**

MORALE Plus WDG can be used to control weeds under asphalt and concrete pavement, such as that used in parking lots, highway shoulders, median strips, roadways, and other industrial sites.

MORALE Plus WDG should only be used in an area that had been prepared according to good construction practices. Use sufficient water to insure uniform coverage, generally 100 gal. per acre. Agitate the tank continuously to keep MORALE Plus WDG in suspension.

**APPLICATION TIMING AND RATES**

Apply MORALE Plus WDG at 16.55 to 29.20 pounds per acre immediately before paving to avoid lateral movement of the herbicide as a result of soil movement due to rainfall or mechanical means. Use higher rates for control of problem weeds and for more residual control.

### **TANK MIXTURES**

To control a broader spectrum of weeds, or for an extended period of weed control, a tank mixture of MORALE Plus WDG at 6.81 to 14.60 pounds per acre plus sulfometuron at 0.1875 – 0.375 lb ai/ac may be used.

### **IMPORTANT PRECAUTIONS: UNDER ASPHALT ONLY**

- **DO NOT** use MORALE Plus WDG under pavement in residential properties such as driveways, or in recreational areas, including jogging or bike paths, tennis courts, or golf cart paths.
- Desirable plants may be injured if their roots extend into treated areas or if planted in treated areas.

### **SPRAY DRIFT MANAGEMENT**

#### **MANDATORY SPRAY DRIFT MANAGEMENT**

##### **Ground Boom Applications:**

- User must only apply with nozzle height recommended by the manufacturer, but no more than 2 feet above the ground or target vegetation.
- Applicators are required to use a medium or coarser droplet size (ASABE S572).
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

##### **Boomless Ground Applications:**

- Applicators are required to use a coarse or coarser droplet size (ASABE S572) for all applications.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

### **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### **Controlling Droplet Size - Ground Boom**

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **BOOM HEIGHT - Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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. Avoid applications during temperature inversions.

## **WIND**

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.** Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

- Boom-less Ground Applications: Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

## **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store product in original container only. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **Container Handling (less than or equal to 50 pounds)**

**Non-refillable container. DO NOT** reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container % 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling (Aluminium foil bags)**

Non-refillable container. **DO NOT** reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### **Container Handling (fiber drums with liners)**

Non-refillable container. **DO NOT** reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-535-5053, day or night.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.**

## **LIMITATION OF WARRANTY AND LIABILITY**

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES and LIMITATIONS OF LIABILITY.**

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However; it is impossible to eliminate all risks 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 the manner of use or application, all of which are beyond the control of Longwind Cropsience USA LLC. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Longwind Cropsience USA LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Longwind Cropsience USA LLC is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Longwind Cropsience USA LLC disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Longwind Cropsience USA LLC's election, the replacement of product.