

71368-22

8/10/2009

Sheet  
1 of 14



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
Ariel Rios Building  
1200 Pennsylvania Ave., NW  
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

71368-22

AUG 10 2009

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:

2,4-D Sodium Salt Herbicide

Name and Address of Registrant (include ZIP Code):

Nufarm Americas, Inc.  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527

**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/reregistered 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 reregistered in accordance with FIFRA section 4(g)(2)(C) provided you:

1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. Make all the following changes to the product label:
  - a. Remove the claim "Special" from the description on the front panel, as it implies the product possesses unique characteristics due to its composition, which are false and misleading.
  - b. Remove the text "Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse." from the Hazards to Humans and Domestic Animals section, since it is stated in the User Safety Recommendations box.
  - c. Per the acute toxicity review and the RED, the PPE section must be revised to read:  
  
"Some materials that are chemical-resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Continued on Page 2

Signature of Approving Official:

Joanne Miller  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)

Date:

AUG 10 2009

2014

All mixers, loaders, applicators, flaggers and other handlers must wear:  
Long-sleeved shirt and long pants,  
Shoe and socks,  
Chemical-resistant gloves (except for pilots), and  
Chemical-resistant apron when mixing, loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.”

- d. Revise the first sentence in the Environmental Hazard section to read “This pesticide is toxic to fish and aquatic invertebrates.”
- e. Remove the text “Exception: If the product is soil-injected or soil-incorporated...no contact with anything that has been treated.” from the Agricultural User Requirements box since it is not applicable for this product.
- f. On page 4, remove the word “General” from the heading “General Use Precautions”.
- g. On page 4, revise the phrase “recommended rates” to “listed rates” in both instances.
- h. Remove the word “chemigation” from the first sentence in the Spray Drift Management section, since this application method is prohibited for this product.
- i. On page 5, revise the sentence to read “For all types of applications, use calibrated spray equipment to assure applying the **directed** amount of 2,4-D Sodium Salt Herbicide spray mixture per acre.”
- j. On page 9, correct the phrase to read “Onset of **Tillering** Stage”.
- k. Revise the Storage and Disposal statement to read “Do not contaminate water, food, or feed by storage and disposal.”
- l. Add the following statement to the label:

“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, C01-0132C, (W.D. WA). For further information, please refer to EPA Web Site: <http://www.epa.gov/espp>.”

The basic confidential statement of formula (CSF) dated January 22, 2009 is acceptable.

A stamped copy of your label is enclosed for your records. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this notice or the next printing of the label whichever occurs first, must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

30114

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

AUG 10 2009  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

71368-22

# 2,4-D SODIUM SALT HERBICIDE

Postemergence Broadleaf Herbicide

A Special Sodium Salt Formulation for Control of Broadleaf Weeds in Certain Crops.

**ACTIVE INGREDIENT:**

Monohydrate Sodium Salt of 2,4-Dichlorophenoxyacetic Acid\* ..... 89.2%

**OTHER INGREDIENTS:** ..... 10.8%

**TOTAL:** ..... 100.0%

\*Equivalent to 76.8% of 2,4-Dichlorophenoxyacetic acid. Isomer specific by AOAC Method 978.05.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION – PRECAUCION**

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

**SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS**

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
 For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 71368-22  
EPA EST. NO.

NET WEIGHT

071368-00022.20090122.2,4-D RED

Manufactured For  
NUFARM INC.  
150 Harvester Drive  
Burr Ridge, IL 60527



**PRECAUTIONARY STATEMENT  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION / PRECAUCION**

Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

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

- long-sleeved shirt and long pants,
- shoes and socks, plus
- chemical resistant gloves, when applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
- chemical resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

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 Control Statement:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE (personal protective equipment) requirements may be reduced or modified as specified in the WPS. Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

<b>USER SAFETY RECOMMENDATIONS</b>
<p><b>Users Should:</b></p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.</li> <li>• Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible,</li> </ul>

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<b>FIRST AID</b>	
<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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<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 to 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 to 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 further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.</p>	

### ENVIRONMENTAL HAZARDS

This pesticide may be 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 highwater. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

This product has properties and characteristics associated with chemicals detected in groundwater. The use of this product 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.

**Groundwater Contamination:**

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

**Nontarget plant precautions:**

This herbicide may cause injury to desirable plants by contacting foliage, stems or roots. Use care in all applications to avoid surface water or soil transport to nontarget plant areas. Avoid contamination of irrigation or domestic water supplies. Although this product is a low volatile formulation, at high temperatures (about 85° F. or higher), vapors from this product may injure susceptible plants growing nearby such as cotton, grapes, tobacco, fruit trees, legumes, vegetables, and ornamentals. Avoid applications in the vicinity of susceptible plants or when winds are blowing toward nearby susceptible plants, or when temperature inversions are expected. Avoid direct application or spray drift to susceptible plants, since very small quantities of this herbicide can cause severe injury in the growing or dormant period. Plants contacted may be killed or suffer significant injury resulting in grade or yield losses. Do not apply in greenhouses.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 statement of this label about personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to users of this product that are covered by the WPS.

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

Exception: If the product is soil-injected or soil-incorporated, the WPS, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 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 WPS for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural crops on farms, forests, nurseries, or greenhouses.

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

**GENERAL USE PRECAUTIONS**

Best results will be obtained when this product is applied during warm weather to young weeds that are actively growing under good moisture conditions. Lowest recommended rates will generally be satisfactory on susceptible annual weed seedlings. For listed perennial or biennial weeds and under certain conditions such as drought or cool temperatures where control is difficult, the higher recommended rates may be required. In general, only weeds emerged at the time of application will be affected.

When this product is used for weed control in actively growing crops, the growth stage of the crop must be considered. Proper timing is required to obtain maximum crop tolerance and to avoid crop injury. Weed control and crop tolerance of this product may be affected by local conditions, crop varieties, cultural practices, application methods and other factors. Users should consult Agricultural Extension Service, agricultural experiment station, university weed specialists, seed companies or other qualified crop advisors for information pertaining to local use. In general, weed control and crop tolerance will be best when plants have neither too little nor excessive moisture before or after application, and the crop is not under other stresses.

Certain states have regulations, which may affect the use of this product. Contact your state pesticide authority for additional information.

Soil residue of this product may temporarily inhibit seed germination and plant growth.

**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, air blast, chemigation) 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 (ASAE standard 572) or a volume mean diameter of 385 microns or greater 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 (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

**Wind Speed**

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, 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, but are not limited to, cotton, okra, flowers, 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 might 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.

*Additional requirements for aerial applications:*

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.

*Additional requirements for ground boom application:*

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

**MIXING INSTRUCTIONS**

This product is a soluble powder formulation intended for dilution in water for many applications. For certain specified applications, liquid fertilizer or oil may replace part or all of the water as diluent.

If dry flowable (DF), wettable powder (WP) or flowable (F) tank mix products are to be used, these should generally be added to the spray tank before this product. Refer to mixing directions on tank mix product labels.

For best results, thoroughly clean sprayer immediately after use by flushing system with water and heavy duty detergent such as Loveland Industries, Inc. Tank & Equipment Cleaner.

**Water Spray:** To prepare a water spray mixture, fill clean spray tank about 1/2 to 3/4 full with clean water. Add required amount of this product with agitation turned on. Continue agitation while adding balance of water and during spray operations. NOTE: If spray mixture is allowed to stand, agitate it before use to assure uniformity.

**Liquid Fertilizer Spray:** Due to increased risk of crop foliage burn with fertilizer, use only as recommended on this label or supplemental labeling distributed for this product. Use fertilizer rate recommended locally. Fill clean spray tank about 1/2 to 3/4 full with liquid nitrogen fertilizer (UAN or urea) solution. Add required amount this product with vigorous agitation running. Continue agitation while adding balance of liquid fertilizer and during spray operations. Application should be made immediately. Overnight storage of mixture is not recommended. Application during very cold (near freezing) temperatures is not advisable because of the likelihood of crop injury. This product is formulated to be compatible with most liquid nitrogen solutions; however, due to variability in fertilizers, users may wish to perform a jar compatibility test before large scale mixing.

**APPLICATION PROCEDURES**

For all types of applications, use calibrated spray equipment to assure applying the recommended amount of 2,4-D Sodium Salt Herbicide spray mixture per acre. Use sufficient spray volume within the ranges specified to obtain good coverage of weeds.

**Ground Broadcast Spray:** Unless otherwise specified in the appropriate crop or noncrop directions, apply this product in 5 or more gallons of spray solution per acre. Use enough spray volume to provide uniform coverage of weeds, taking into account the amount of vegetation present and the type of application equipment to be used. As crop canopy and weed density increase, a higher spray volume may be needed for equivalent coverage and weed control.

Typical crop applications utilize 10 to 50 gallons of spray per acre, while certain high volume noncrop applications may utilize more than 100 gallons per acre. Use coarse sprays to minimize potential spray drift. Do not apply with hollow cone nozzles or other nozzles that produce fine spray droplets. Boom sprayers with flat fan or low volume flood nozzles are generally most suitable for ground broadcast applications.

**Ground Band Spray:** Determine band equivalents to broadcast rates and volumes by the following formulas:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast Rate per acre} = \text{Band rate Per acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast Volume per acre} = \text{Band volume Per acre}$$

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

**Aerial Broadcast Spray:** Unless otherwise specified in the appropriate crop or noncrop directions, apply this product in 2 to 10 gallons of spray solution per acre. For best coverage and weed control, as well as reduced potential for spray drift, a minimum of 3 gallons per acre is suggested. Avoid using nozzles or nozzle configurations that generate fine droplets. One configuration usually found to be suitable includes straight stream nozzles (such as disk with no swirl plate) directed straight back along the windstream.

Mechanical flagging systems such as Automatic Flagman® are suggested to obtain more uniform application.

With fixed-wing or helicopter application, an exactly even swath deposition may not be achieved, and consequently crop injury or pesticide nonperformance may result wholly or in part. Do not apply by air during consequently crop injury or pesticide nonperformance may result wholly or in part. Do not apply by air during periods of thermal inversion. Avoid application if potential for drift is excessive and/or susceptible crops are growing in the vicinity.

### WEED LISTS

This product will control or partially control the following weeds in addition to many other susceptible noxious plants. Locally resistant biotypes of listed weeds may be suppressed, but tank mixing a herbicide with a different mode and site of action is advisable for such biotypes. Certain weeds, especially deep-rooted perennials and woody varieties, may require repeat applications of this product for control or suppression. Regrowth of perennials may occur.

#### WEEDS CONTROLLED

Arrowhead	Four o'clock	Redstem
Artichoke	Galinsoga (elderberry, hairy)	Rough fleabane
Blue thistle	Goatsbeard	Shepherdspurse
Blueweed, Texas	Healall	Sicklepod
Boxelder	Horsetail	Sneezeweed, bitter
Bittercress, smallflowered	Ironweed	Sowthistle (annual, spiny)
Blue lettuce	Jerusalem artichoke	Spanishneedles
Broomweed, common	Jewelweed	Speedwell
Bull nettle	Jimsonweed	Stinkweed
Burdock, common	Klamathweed	Sumacs
Burhead	Lambsquarters, common	Sunflower
Buttercup, smallflowered	Loco, Bigbend	Sweetclover (annual)
Carolina geranium	Mallow (Venice, dwarf, little)	Tumbleweed
Carpetweed	Marestail	Velvetleaf
Catnip	Marshelder	Vetches, except hairy
Chickweed	Mexican Weed	Virginia copperleaf
Chicory	Milk vetch	Wild hemp
Cinquefoil, common and rough	Momingglory (annual, common, ivy, woolly)	Wild lettuce
Cocklebur, common	Mousetail	Wild mustard
Coffeeweed	Mustards (except blue), prior to bolting	Wild parsnip
Cornflower	Pennycress (fanweed)	Wild radish
Creeping jenny	Pepperweeds (except perennial)	Wild rape
Croton (Texas, woolly)	Plantains	Wild sweet potato
Dogfennel (mayweed)	Poison ivy	Willow
Elderberry	Poorjoe	Witchweed
Evening primrose, common	Puncture vine	Wormwood
Evening primrose, cutleaf	Purslane, common	Yellow goatsbeard
Fanweed	Quickweed	Yellow rocket
Figwort	Ragweeds (common, giant)	Yellow starthistle



**WEEDS PARTIALLY CONTROLLED**  
(Higher rates and/or repeated applications may be needed)

Alfalfa	Ground ivy	Sagebrush (big, sand)
Beggarticks	Hawkweed	Salsify (western, common)
Bindweeds (hedge, European)	Henbit	Sand shinnery oak
Buckbrush	Hoary cress	Smartweed, annual
Bull thistle	Knotweed	Smartweed, Pennsylvania
Canada thistle	Many-flowered aster	Tansyragwort
Chamise	Manzanita	Vervains
Clover, red	Musk thistle	Vetch, hairy
Corn gromwell	Nettles	Western ironweed
Coyotebrush	Peppergrass	Wild carrot
Dandelion	Prickly lettuce	Wild garlic
Docks	Rabbitbrush	Wild onion
Dogbanes	Russian thistle	
Goldenrod	Sage, coastal	

**WEEDS PARTIALLY CONTROLLED**  
(And for which locally resistant biotypes may occur)

Pigweed

**WEEDS SUPPRESSED WHEN ANOTHER LABELED HERBICIDE IS ALSO APPLIED**

Bindweed (field)  
Russian knapweed

**TANKMIXES**

Unless otherwise prohibited on this label or the label of an intended tank mix product, this product may be applied in combination with any herbicide registered for the same crop, timing, and method of application. Observe the most restrictive label statements of various tank mix products used. **LIABILITY FOR CROP INJURY RESULTING FROM A TANK MIXTURE NOT SPECIFIED ON THIS LABEL, OR SUPPLEMENTAL LABELING DISTRIBUTED FOR THIS PRODUCT, IS SPECIFICALLY DISCLAIMED BY NUFARM INC.**

**COMPATIBILITY**

Before full-scale mixing of this product with other herbicides, fertilizer solutions and adjuvants, it is advisable to determine the compatibility of the proposed mixture. Use proportionate quantities of each ingredient and mix in a small container. Always mix one product thoroughly with the diluent before adding another product. If no incompatibility is evident after 30 minutes, the mixture is generally compatible for spraying.

**PLANTING IN TREATED AREAS**

**Labeled Crops:** Within 29 days following an application of this product, plant only those crops named as use sites on this or other registered 2,4-D labels. Follow more specific limitations, if any provided in the directions for individual crops. Labeled crops may be at risk for crop injury or loss when planted soon after application, especially in the first 14 days. Degradation factors described below should be considered in weighing this risk.

**Other Crops:** All other crops may be planted 30 or more days following an application without concern for illegal residues in the planted crop. However, under certain conditions, there may be a risk of injury to susceptible crops. Degradation factors described below should be considered in weighing this risk. Under normal 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 degradation 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 soil conditions in your area.

**APPLICATIONS**

Read all preceding general sections of label and NOTICE before use.

Unless otherwise specified, applications may be made by ground or air equipment. Ground applications may provide more thorough coverage and better weed control.

For selective postemergent weed control in crops, do not add oil, surfactant, fertilizer or other additives unless specifically recommended on this label or supplemental labeling distributed for this product.

**SORGHUM (Milo-Grain)**

**Postemergence:** To control small broadleaf weeds, apply when sorghum is 6 to 15 inches tall to top of canopy. If sorghum is taller than 8 inches to top of canopy, use drop nozzles to keep spray off crop foliage. Do not treat during the boot, flowering or early dough stages. Use this product rates according to the following table:

**SORGHUM (Milo) POSTEMERGENCE APPLICATION RATES**

Crop Stage	Comments	Rate Per Acre*
6 to 8 inches tall	Over-the-top broadcast spray. Ground or aerial application.	3.2 to 9.6 ounces
8 to 15 inches tall	Directed spray using drop nozzles. Ground application only.	4.8 to 9.6 ounces

\*Lowest rates may not provide adequate weed control unless used in a tank mixture with another registered herbicide. Highest rates may have increased risk of injury.

**RESTRICTIONS AND LIMITATIONS FOR USE ON SORGHUM (MILO):**

- Do not permit meat or dairy animals to consume treated crop as fodder or forage for 30 days following application.
- Do not make more than 1 application per crop cycle and do not apply more than 12.3 ounces of product per acre per application.
- Do not apply within 30 days of harvest

**CEREAL GRAINS**

Barley, Millet, Oats, Rye and Wheat  
(Not Underseeded with Legume)

Apply this product to small grains as directed below.

**Liquid Nitrogen Fertilizers:** At full tiller, this product may be combined with liquid nitrogen fertilizers suitable for foliar application to small grains. Refer to MIXING INSTRUCTIONS section of label for further information. Fertilizers can increase foliage contact burn of herbicides. Reducing the fertilizer rate and concentration will reduce the hazard of foliage burn.

**SPRING WHEAT AND BARLEY:**

**Onset of Tillering Stage:** Grains are generally tolerant of these treatments, but risk of crop injury is greater than at full tillering stage. Do not make application if the risk of injury is unacceptable.

**2,4-D Sodium Salt:**

Apply 6.4 to 9.6 ounces of this product per acre in the spring when grain has 1 or more tillers as well as 3 or more leaves. Do not apply from boot to dough stage.

**2,4-D Sodium Salt + Ally®:**

Refer to the Ally label for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 or more leaves. Use the labeled rate of Ally plus 6.4 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. Do not apply from boot to dough stage.

**2,4-D Sodium Salt + Amber®:**

Refer to the Amber label for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 or more leaves. Use the labeled rate of Amber plus 6.4 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. Do not apply from boot to dough stage.

**2,4-D Sodium Salt + Ally® + Dicamba:**

Refer to the Ally and dicamba labels for complete directions and precautions. The crop stage for application of this tank mixture is the onset of filtering stage defined as follows: Grain should have 1 or more tillers as well as 3 to 5 leaves for wheat and 3 to 4 leaves for barley. Use the labeled rates of Ally and dicamba plus 6.4 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

**2,4-D Sodium Salt + Amber® + Dicamba:**

Refer to the Amber and dicamba labels for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 to 5 leaves for wheat and 3 to 4 leaves for barley. Use the labeled rates of Amber and dicamba plus 6.4 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

**Full Tillering Stage:** For these applications, full tillering stage is defined as follows: Grain should have 3 or more tillers and the flag leaf should not be visible.

**2,4-D Sodium Salt:**

Apply 6.4 to 12.8 ounces of this product per acre when grain is in the full tiller stage (usually 4 to 8 inches tall). Do not apply from boot to dough stage.

**2,4-D Sodium Salt + Ally®:**

Refer to the Ally label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Ally plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

**2,4-D Sodium Salt + Amber®:**

Refer to the Amber label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Amber plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant should be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Surfactant may be deleted if liquid fertilizer is at least 50% of the spray mixture, but weed control may be reduced on some species. The combination of surfactant and liquid fertilizer increases the risk of crop injury.

**2,4-D Sodium Salt + Express®:**

**2,4-D Sodium Salt + Express® + Bromoxynil®:**

Refer to the Express and Bromoxynil labels for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. Use the labeled rate of Express plus 3.2 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. Control of certain weeds may be enhanced by adding 1/4 to 1/2 pound active ingredient per acre of a bromoxynil product registered for such application.

**2,4-D Sodium Salt + Finesse®:**

Refer to the Finesse label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Finesse plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1 to 2 pints per 100 gallons of spray mixture. Do not use liquid fertilizer as a substitute for nonionic surfactant. The combination of surfactant and liquid fertilizer increases the risk of crop injury.

**2,4-D Sodium Salt + Glean® FC:**

Refer to the Glean FC label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Glean FC plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer as a substitute for nonionic surfactant. The combination of surfactant and liquid fertilizer increases the risk of crop injury.

**2,4-D Sodium Salt + Harmony® Extra:**

Refer to the Harmony Extra label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Harmony Extra plus 3.2 to 6.4 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.) proportional to this product's rate used. If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended.

**Emergency Weed Control:** Higher rates, up to 25.6 ounces of 2,4-D Sodium Salt per acre, may be needed to handle difficult weed problems in certain areas, such as under dry conditions, especially in western areas. These higher rates increase the risk of crop injury. The severity of the weed problem should be balanced against the possibility of crop injury. Do not apply before the tiller stage nor from boot to dough stage.

**WINTER WHEAT, BARLEY AND RYE:**

**Onset of Tittering Stage:** Grains are generally tolerant of these treatments, but risk of crop injury is greater than at full tillering stage. Do not make application if the risk of injury is unacceptable.

**2,4-D Sodium Salt:**

Apply 6.4 to 9.6 ounces of this product per acre in the spring when grain has 1 or more tillers as well as 3 or more leaves. Do not apply from boot to dough stage.

**2,4-D Sodium Salt + Ally®:**

Refer to the Ally label for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 or more leaves. Use the labeled rate of Ally plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. Do not apply from boot to dough stage.

**2,4-D Sodium Salt + Amber®:**

This tank mixture is for winter wheat and barley. Refer to the Amber label for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 or more leaves. Use the labeled rate of Amber plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant. Do not apply from boot to dough stage.

**2,4-D Sodium Salt + Ally® + Dicamba:**

Refer to the Ally and dicamba labels for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 to 5 leaves for wheat or rye and 3 to 4 leaves for barley. Use the labeled rate of Ally plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

**2,4-D Sodium Salt + Amber® + Dicamba:**

This tank mixture is for winter wheat and barley. Refer to the Amber and dicamba labels for complete directions and precautions. The crop stage for application of this tank mixture is the onset of tillering stage defined as follows: Grain should have 1 or more tillers as well as 3 to 5 leaves for wheat or rye and 3 to 4 leaves for barley. Use the labeled rate of Amber plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

**Full Tillering Stage:** For these applications, full tillering stage is defined as follows: Grain should have 3 or more tillers and the flag leaf should not be visible.

**2,4-D Sodium Salt:**

Apply 6.4 to 12.8 ounces of this product per acre when grain is in the full tiller stage (usually 4 to 8 inches tall). Do not apply from boot to dough stage.

**2,4-D Sodium Salt + Ally®:****2,4-D Sodium Salt + Ally® + Dicamba:**

This tank mixture is for winter wheat and barley. Refer to the Ally and dicamba labels for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. Use the labeled rate of Ally plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer in addition to or as a substitute for nonionic surfactant.

**2,4-D Sodium Salt + Amber®:****2,4-D Sodium Salt + Amber® + Dicamba:**

This tank mixture is for winter wheat and barley. Refer to the Amber and dicamba labels for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. Use the labeled rate of Amber plus 6.4 to 12.8 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant should be added at the rate of 1 to 2 quarts per 100 gallons of spray mixture. Surfactant may be deleted if liquid fertilizer is at least 50% of the spray mixture, but weed control may be reduced on same species. The combination of surfactant and liquid fertilizer increases the risk of crop injury.

**2,4-D Sodium Salt + Express®:****2,4-D Sodium Salt + Express® + Bromoxynil:**

This tank mixture is for winter wheat and barley. Refer to the Express and bromoxynil labels for complete directions and precautions. The crop stage for application of these tank mixtures is the full tiller stage as specified above. Use the labeled rate of Express plus 3.2 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. Control of certain weeds may be enhanced by adding 1/4 to 1/2 pound active ingredient per acre of a bromoxynil product registered for such application.

**2,4-D Sodium Salt + Finesse®:**

This tank mixture is for winter wheat and barley. Refer to the Finesse label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Finesse plus 6.4 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1 to 2 pints per 100 gallons of spray mixture. Do not use liquid fertilizer as a substitute for nonionic surfactant. The combination of surfactant and liquid fertilizer increases the risk of crop injury.

**2,4-D Sodium Salt + Glean® FC:**

This tank mixture is for winter wheat and barley. Refer to the Glean FC label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Glean FC plus 6.4 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 1/2 to 1 quart per 100 gallons of spray mixture. Do not use liquid fertilizer as a substitute for nonionic surfactant. The combination of surfactant and liquid fertilizer increases the risk of crop injury.

**2,4-D Sodium Salt + Harmony® Extra:**

This tank mixture is for winter wheat and barley. Refer to the Harmony Extra label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Harmony Extra plus 3.2 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended.

**Emergency Weed Controls:** For improved control of difficult weeds and heavy infestations, apply up to 25.6 ounces of this product per acre. These higher rates increase the risk of crop injury. The severity of the weed problem should be balanced against the possibility of crop injury. Do not apply before the tiller stage nor from boot to dough stage.

**SPRING SEEDED OATS:**

**Full Tillering Stage:** For these applications, full tillering stage is defined as follows: Grain should have 3 or more tillers and the flag leaf should not be visible. Oats are less tolerant to this product than wheat or barley and present a greater risk of crop injury. The severity of the weed problem should be balanced against the possibility of crop injury. Larger weeds and hard-to-kill weeds may be poorly controlled, especially under dry conditions.

**2,4-D Sodium Salt Herbicide:**

Apply 6.4 to 9.6 ounces of this product per acre when grain is in the full tiller stage as specified above. Do not apply before the tiller stage nor from boot to dough stage.

**2,4-D Sodium Salt Herbicide + Harmony® Extra:**

Refer to the Harmony Extra label for complete directions and precautions. The crop stage for application of this tank mixture is the full tiller stage for application of this tank mixture is the full tiller stage as specified above. Use the labeled rate of Harmony Extra plus 3.2 to 9.6 ounces of 2,4-D Sodium Salt Herbicide per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.24% (vol./vol.) nonionic surfactant is recommended. The combination of surfactant and liquid fertilizer increases the risk of crop injury.

**FALL SEEDED OATS (SOUTHERN) GROWN FOR GRAIN:****2,4-D Sodium Salt Herbicide:**

Apply 6.4 to 12.8 ounces of this product per acre after full tillering, but prior to joints forming in the stem. Do not apply until after full tillering nor from jointing to dough stage. Oats are less tolerant to this product than wheat or barley and present a greater risk of crop injury. The severity of the weed problem should be balanced against the possibility of crop injury, especially at higher rates. Avoid spraying during or immediately following cold weather.

**2,4-D Sodium Salt + Harmony® Extra:**

Refer to the Harmony Extra label for complete directions and precautions. The crop stage for application of this tank mixture is after full tillering and prior to jointing as specified above. Use the labeled rate of Harmony Extra plus 3.2 to 9.6 ounces of 2,4-D Sodium Salt per acre. A nonionic surfactant may be added at the rate of 0.125% to 0.25% (vol./vol.). If liquid fertilizer is used, 0.06% to 0.25% (vol./vol.) nonionic surfactant is recommended. The combination of surfactant and liquid fertilizer increases the risk of crop injury.

**RESTRICTIONS AND LIMITATIONS FOR USE ON CEREAL GRAINS:**

- Do not permit dairy animals or meat animals being finished for slaughter to forage or graze treated grain fields within 2 weeks after treatment.
- Do not feed treated straw to livestock if an emergency and/or preharvest treatment is applied.
- Do not apply within 14 days of harvest
- For postemergence applications do not make more than 1 application per crop cycle and do not apply more than 26.1 ounces of product per acre per application.
- For preharvest applications do not make more than 1 application per crop cycle and do not apply more than 10.4 ounces of product per acre per application
- Do not apply more than 36.5 ounces of product per acre per crop cycle.

**STORAGE AND DISPOSAL**

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

**PESTICIDE STORAGE:** Store pesticides in a secure warehouse or storage building inaccessible to children and domestic animals. Avoid storing near open containers of fertilizer, seed or other pesticides. Keep container tightly sealed when not in use. Reduce stacking height where local conditions can affect package strength.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. 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 DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. **Paper or plastic bags:** Completely empty bag into application equipment. Then dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**WARRANTY DISCLAIMER**

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