

PM-23

Reg # 62719-256

1910  
2

May 3, 1994

page

# Justice®

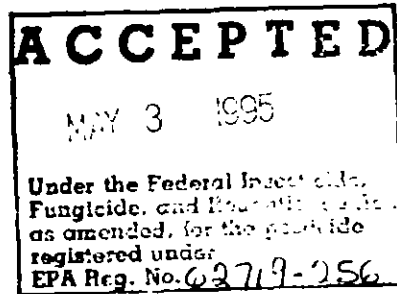
EPA Reg. No. 62719-256

## Final Printed Labeling

Label text based on EPA-accepted copy dated March 25, 1994 and the following conditions of acceptance:

1. Added new EPA Reg. No. 62719-256
2. Added statement "Avoid breathing dust, vapor or spray mist" to Precautionary Statements.
3. Added the phrase "not to exceed 1.7 pounds per acre per growing season." to recommendations for repeat application for use on apples, pears, stone fruit and nut orchard floors in the Approved Uses section.
4. **Note:** Items 2c, 2d, 2ei, and 2eii, identified as conditions of acceptance in EPA cover letter, were not implemented. The language in these statements, which were to be added to the 2,4-D labels as part of the Exposure Reduction Program (ERP) for 2,4-D, is in conflict with language required by the Worker Protection Standard (WPS). The conflict between ERP and WPS was resolved in an EPA communication to 2,4-D registrants titled "Additional Guidance about Worker Protection Standard Labeling Revisions to 2,4-D Labels" dated September 1, 1994. The language used in the label for Justice herbicide is consistent with that guidance.

3  
~~5~~



27/10

(Container Label)

**Justice®****For Selective Control Of Many Broadleaf Weeds In Apple, Pear, Stone Fruit And Nut Orchards****Active Ingredient:**

2,4-dichlorophenoxyacetic acid**	85.0%
Inert Ingredients	15.0%
Total	100.0%

Each 1.12 lb water soluble packet contains 0.95 lb acid equivalent 2,4-dichlorophenoxyacetic acid

\*\*Isomer Specific by AOAC Method No. 978.05 (15th Ed.)

**Precautionary Statements****Hazards to Humans and Domestic Animals****Keep Out of Reach of Children****DANGER PELIGRO:**

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.)

**Corrosive • Causes Irreversible Eye Damage • Harmful If Absorbed Through Skin Or Inhaled.****Do not get in eyes, on skin, or on clothing. Avoid breathing dust, vapor or spray mist.****Personal Protective Equipment (PPE)****Applicators and other handlers must wear:**

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

Discard clothing and 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. After each day of use, clothing or PPE must not be reused until it has been cleaned.

**Engineering Controls Statements:**

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

**User Safety Recommendations****Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

3910

**First Aid:**

If in eyes: Hold eyelids open and flush with a gentle, steady stream of water for 15 minutes. Get medical attention.

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

If swallowed: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

If inhaled: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**Environmental Hazards**

Drift or run off may adversely effect non-target plants. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

**Mixing and Loading:** Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-dichlorophenoxyacetic acid have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-dichlorophenoxyacetic acid 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.

**Agricultural Use Requirements**

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

Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), Engineering Controls Statements and User Safety Recommendations, and Directions for Use including Storage and Disposal.

**Notice:** Read the entire label before using. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet. In case of emergency endangering life or property involving this product, call collect 517-636-4400. Agricultural Chemical: do not ship or store with food, feeds, drugs, or clothing.

EPA Reg. No. 62719-258

EPA Est. 464-MI-1

DowElanco • Indianapolis, Indiana 46268, USA

**Herbicide**  
**5 X 1.12 lb Water Soluble Packets**

4810

(Label Booklet)

# Justice®

## For Selective Control Of Many Broadleaf Weeds In Apple, Pear, Stone Fruit And Nut Orchards

**Active Ingredient:**

2,4-dichlorophenoxyacetic acid**.....	85.0%
Inert Ingredients.....	15.0%
Total.....	100.0%

Each 1.12 lb water soluble packet contains 0.95 lb acid equivalent 2,4-dichlorophenoxyacetic acid

\*\*Isomer Specific by AOAC Method No. 978.05 (15th Ed.)

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

**Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), Engineering Controls Statements and User Safety Recommendations, and Directions for Use including Storage and Disposal.**

**Notice:** Read the entire label before using. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet. In case of emergency endangering life or property involving this product, call collect 517-636-4400. Agricultural Chemical: do not ship or store with food, feeds, drugs, or clothing.

EPA Reg. No. 62719-256

EPA Est. 464-MI-1

DowElanco • Indianapolis, Indiana 46268, USA

# Herbicide

5910

---

## Precautionary Statements

---

### Hazards to Humans and Domestic Animals

#### Keep Out of Reach of Children

#### **DANGER PELIGRO:**

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.)

**Corrosive • Causes Irreversible Eye Damage • Harmful If Absorbed Through Skin Or Inhaled.**

**Do not get in eyes, on skin, or on clothing. Avoid breathing dust, vapor or spray mist.**

#### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

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

Discard clothing and 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. After each day of use, clothing or PPE must not be reused until it has been cleaned.

#### Engineering Controls Statements:

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

#### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### First Aid:

**If in eyes:** Hold eyelids open and flush with a gentle, steady stream of water for 15 minutes. Get medical attention.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation develops.

**If swallowed:** Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

**If inhaled:** Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. Get medical attention.

#### Environmental Hazards

Drift or run off may adversely effect non-target plants. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

**Mixing and Loading:** Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-dichlorophenoxyacetic acid have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-dichlorophenoxyacetic acid pesticides at such sites to prevent

6910

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.

### Directions for Use

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- Read entire label before using. Use only according to use directions.

**Handling Precautions for Water Soluble Packets:** Do not remove water soluble packet from foil overpack except for immediate use. Do not allow water soluble packet to come into contact with water prior to use. Do not handle water soluble packet with wet hands or wet gloves. Carefully reseal package containing unopened water soluble packets and protect package from moisture.

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

#### Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

#### STORAGE AND DISPOSAL

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

**Storage:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 122°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below. Packets may become brittle when stored below 32°F. Handle carefully when frozen to avoid breakage or allow package to warm above 32°F before handling.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate, is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of 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:** When all packets are used, dispose of empty package in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**General:** Consult federal, state, or local disposal authorities for approved alternative procedures.

## General Information

Justice herbicide in water soluble packets may be used for selective control of many broadleaf weeds in apple, pear, stone fruit and nut orchards. Apply Justice during warm weather when weeds are young and growing actively. Apply using ground equipment in sufficient spray volume to obtain adequate coverage, except as otherwise directed on this label. Use a spray volume of 15 or more gallons per acre for ground application. If only bands or rows are treated, leaving middles unsprayed, the dosage per crop acre is reduced proportionately. Generally, the lower dosages given will be satisfactory for young succulent growth of sensitive weed species. For less sensitive species and under conditions where control is more difficult, the higher dosages will be needed.

## General Use Precautions

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

**Avoid Contact With Susceptible Crops And Other Desirable Broadleaf Plants:** Do not apply in the vicinity of cotton, grapes, tobacco, tomatoes, vegetables, flowers, ornamentals or other desirable broadleaf plants. Do not use in or near a greenhouse.

**Avoid Spray Drift:** Spray only when the wind velocity is below 10 mph. Applications should be made only when there is no hazard from spray drift since very small quantities of spray, which may not be visible, may severely injure susceptible crops during both growing and dormant periods. Use coarse sprays to minimize drift. Do not apply with hollow cone-type insecticide or other nozzles that produce fine spray droplets. Drift may be reduced by: (1) applying as near to the target as possible in order to obtain coverage; (2) by increasing the volume of spray mix per acre; (3) by decreasing the pounds of pressure at the nozzle tips; (4) by using nozzles which produce a coarse spray pattern; and (5) by not applying when wind is blowing toward susceptible crops or valuable plants.

Do not apply when a temperature inversion exists. Such a condition is characterized by little or no air movement and an increase in air temperature with an increase in height. Under humid conditions, a fog or mist may form. An inversion may be detected by producing a smoke column and checking for a layering effect. If observed local conditions suggest the existence of an inversion, consult with local weather services before making an application.

Do not apply this product using mist blowers.

**Ground Equipment:** To aid in reducing spray drift Justice should be used in thickened (high viscosity) spray mixtures such as Nalco-Trol drift control additive, high viscosity invert systems, or equivalent as directed by the manufacturer. With ground equipment, spray drift can be reduced by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; and by spraying when wind velocity is below 10 mph. Do not apply with nozzles that produce fine droplet spray. Keep operation spray pressures at the lower end of the manufacturer's recommended pressures for the specific nozzle type used. Low pressure nozzles are available from spray equipment manufacturers. Select nozzles and pressures which provide adequate plant coverage, but minimize the production of fine spray particles.

**Soil Movement:** Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination or plant growth. Violent wind storms may move soil particles and if they are blown onto the susceptible plants, visible symptoms may appear. The hazard of movement of Justice on dust is reduced if treated fields are irrigated or if rain occurs shortly after application.

Do not apply on ditches used to transport irrigation water. Do not apply where runoff or irrigation water may flow onto agricultural land as injury to crops may result.

**Tank Mixes:** Before using any recommended tank mixtures, read the directions and all use precautions on both labels.

**Crop Injury:** Injury to crops may occur when this herbicide is used as approved elsewhere on this label. If you are not prepared to accept some degree of crop injury, do not use this product. Crop varieties vary in response to Justice and some are easily injured. Apply Justice only to varieties known to be tolerant to 2,4-dichlorophenoxyacetic acid. If you are uncertain concerning tolerant varieties or local use situations that may affect crop tolerance, consult your seed company, state Agricultural Extension Service or qualified crop consultant for advice.

## Justice Weed List

### Annual and Biennial

bitter weed	lettuce, wild	ragweed, giant
broomweed	mallow, Venice <sup>1</sup>	rape, wild
burdock	marsh elder	shepherd's purse
carpetweed	morningglory, annual	sicklepod
carrot, wild <sup>1</sup>	morningglory, common	smartweed
cocklebur	mustards	sow thistle, annual
coffeweed	nettles <sup>1</sup>	spanishneedles
croton	parsnip, wild	sunflower
eveningprimrose, common	pennycress	tansymustard <sup>1</sup>
flixweed	pennywort	thistle, bull <sup>1</sup>
fleabane, rough	pepperweed	thistle, musk <sup>1</sup>
galinsoga	pigweed <sup>1</sup>	thistle, Russian
gumweed	poorjoe	tumbleweed
hemp, wild	poppy, prickly	velvetleaf
jewelweed <sup>1</sup>	pusley, Florida	vetch
jimsonweed <sup>1</sup>	radi, wild	witchweed
kochia <sup>1</sup>	ragweed, common	wormwood
lambsquarters		

### Perennial

bindweed, field <sup>1</sup>	Jerusalem-artichoke <sup>1</sup>	rocket, yellow
bindweed, hedge <sup>1</sup>	Knapweed, diffuse	sneezeweed, bitter
chicory	loco, bigbend	sweetclover
dandelion	lupines	thistle, Canada <sup>1</sup>
dock	onion, wild	vervains <sup>1</sup>
dogbane <sup>1</sup>	plantains	waterplantain
garlic, wild <sup>1</sup>		

<sup>1</sup> Even under ideal conditions, these species may be only partially controlled and may require repeated applications and/or use of the higher recommended rate. Cultivation 5 to 7 days after application may improve control of these weed species if tillage options permit.

## Mixing Directions

To calculate the number of packets for your spray mix:

1. Determine the number of acres you wish to spray in the desired application.
2. Divide the number of acres by the Packet Factor that falls within the rate range you have chosen.
3. The result is the number of packets you are required to add to the spray mix.

If the resulting number of packets is not a whole packet:

1. Do not open the water soluble packets.
2. Round up or down to the nearest whole number of packets, insuring that the resulting number of acres/packet falls within the packet range for the desired application.



9910

**Sample calculations:**

1. Planned application = 17 acres at 1.7 lb/acre
2. 17 acres divided by the Packet Factor of 0.7 = 24.3 packets

**Spray Preparation:**

1. Fill the tank with 1/2 of the total amount of water required for the load. Do not apply with liquid fertilizers.
2. Start agitation system.
3. Add required number of water soluble packets. Open foil overpack and add the soluble packet (product in transparent film) directly into the spray tank while agitating. Handling packets with hands should be minimized. Do not open water soluble packets.
4. Continue agitation and complete filling the tank while the packets dissolve.
5. Before spraying, make sure packets have completely disintegrated and product is thoroughly mixed with water. Depending on the water temperature and the degree of agitation, the packets and Justice should be completely dispersed within about 5 minutes from the time they were added to the water.

**Note:** An emulsifiable oil, wetting agent, or other non-ionic surfactant may be used to improve weed control effectiveness. However, use of these agents may also reduce selectivity to crops resulting in crop injury.

**Approved Uses**

**Apple, Pear, Stone Fruit and Nut Orchard Floors**

Apply using ground equipment only.

**Application Rates and Timing**

Refer to Conversion Table below to convert recommended rates in pounds to number of water soluble packets.

Crops	Justice (pounds/acre)	packet factor (acres/packet)
Apples, pears, stone fruit, and nut orchard floors	1.7	0.7

Apply Justice at a maximum rate of 1.7 lb/acre for control of annual broadleaf weeds on the orchard floor. Use coarse sprays and low pressure in sufficient volume to obtain thorough wetting of weeds. Apply when weeds are actively growing. Applications made under adverse conditions or when weeds are large may require repeat application, not to exceed 1.7 pounds per acre per growing season.

**Apple and Pear Orchards:** Make up to two (2) applications during the growing season as needed.

**Stone Fruit and Nut Orchards:** Make up to two (2) applications during the dormant season or growing season as needed.

**Precautions:**

- Not registered for use in California.
- Do not apply to bare ground as injury may result.
- Do not use on light sand soils.
- Do not apply immediately before irrigation or for 3 days after treatment. Irrigation 24 hours prior to treatment may enhance control.
- Do not allow spray to drift or contact foliage, fruit, stems, trunks of trees, or exposed roots as injury may result.
- Do not apply to newly established or young orchards. Trees must be at least 1 year old and in vigorous condition.
- Do not apply during bloom.
- Do not graze or feed cover crops from treated orchards.
- Do not make more than two applications per year.

**Preharvest Interval:** Do not harvest stone fruit within 40 days of application or harvest nuts within 60 days of application

10  
y  
10

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants that this product conforms to the chemical description on the label, that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and that the directions, warnings and other statements on this label are based upon responsible expert's evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLERS EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**NOTICE TO BUYER**

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside the United States of America.

©Copyright 1994 by DowElanco