What is a Pesticide?

A **pesticide** is any substance used to kill, repel, or control certain forms of plant or animal life that are considered to be pests.
FIFRA Act of 1947

Federal Insecticide, Fungicide and Rodenticide Act
The Label is the LAW!

- The pesticide product label is a binding legal agreement between three parties:
  - the US Environmental Protection Agency,
  - the product registrant, and
  - the product user.
Four Types of Labels

- **Section 3 Registration**
  - EPA has reviewed and approved
  - Most pesticides

- **Section 24 (c) Registration**
  - Exemption
  - Typical a “Special Local Need”

- **Section 18 Exemption**
  - State petitioned emergency need
  - Typically public health needs

- **Section 25(b) Exemption**
  - Pose minimum risk to humans
  - Think natural products, like clove based
Parts of a Label

- Identifying Information
  - Brand, Trade, or Product Name
    - Ex: Garlon® 3A, Roundup
  - Chemical Name
    - Ex: 3, 5, 6-trichloro-2-pyridinylozyacetic acid, triethyamine salt
  - Common name
    - Ex: triclopyr, glyphosate
Parts of a Label

Identifying Information (continued)

- **Net Contents**
  - **COMPOSITION**
    - **Active Ingredient (% by weight):**
      - triclopyr (3, 5, 6-trichloro-2-pyridinylozyacetic acid, triethylamine salt) .............................................. 44.4%
      - Inert Ingredients: ................................................... 55.6%
    - **Acid equivalent:** triclopyr - 31.8% - 3 lb/gallon
AVOID CONTACT OF HERBICIDE WITH FOLIAGE, GREEN STEMS, EXPOSED NON-WOODY ROOTS OR FRUIT OF CROPS (EXCEPT AS SPECIFIED FOR INDIVIDUAL ROUNDUP READY® CROPS), DESIRABLE PLANTS AND TREES, BECAUSE SEVERE INJURY OR DESTRUCTION MAY RESULT.

2004-1

Not all products recommended on this label are registered for use in California. Check the registration status of each product in California before using.

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

Read the "LIMIT OF WARRANTY AND LIABILITY" statement at the end of the label before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. THIS COMPANY DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

1.0 INGREDIENTS

ACTIVE INGREDIENT:

Glyphosate N-(phosphonomethyl)glycine in the form of its isopropylamine salt .............. 41.0%

OTHER INGREDIENTS: ........................................ 59.0%

100.0%

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**trade name**

name product is sold under

**common name**

identifies active ingredient

**chemical name**

describes the active ingredient
Parts of a Label

- Identifying Information (continued)
  - EPA **Registration** and establishment number
    - EPA Reg. No. (62719-37)
    - EPA Est. No. (not given on many labels posted on the internet...but required on actual product labels)
Parts of a Label

- Identifying Information (continued)
  - Restricted Use Designation (if applicable);
    - Reason for RUP classification.
RESTRICTED USE PESTICIDE

May Injure (Phytotoxic) Susceptible, Non-Target Plants. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator’s certification. Commercial certified applicators must also ensure that all persons involved in these activities are informed of the precautionary statements.
Specimen Label

Dow AgroSciences

Tordon* RTU

Specialty Herbicide

*Trademark of Dow AgroSciences LLC

For controlling unwanted trees via cut surface treatments in forests and non-cropland areas such as fence rows, road sides, and rights-of-way.

Active ingredient(s):
- Pictorine: 4-aminoo-3,5,6-miruropicolinic acid, terephthalamide salt: 5.4%
- 2,4-dichlorophenoxyacetic acid, methylpropionate: 11.2%

Next ingredient(s):
- Terephthalamide salt: 71.7%

Total: 100.0%

Acid equivalents:
- Pictorine: 3.0%
- 2,4-dichlorophenoxyacetic acid: 11.2%

(As determined by AOAC Method No. 976.05 (15th Ed.)

EPA Reg. No. 62719-31

Precautionary Statements

Hazard to Humans and Domestic Animals

Keep Out Of Reach Of Children

CAUTION PRECAUTION

If used not as directed, it may be harmful. For questions and further directions, see the label. If you do not understand the label, find someone to explain it to you in detail.

Causes moderate eye irritation - Harmful if swallowed or absorbed through skin

Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE)

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

Applicators and other handlers, including persons repairing or cleaning equipment, must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barley Laminite, Butyl Rubber, Nitrile Rubber, Neoprene Rubber, Polyvinyl Chloride (PVC), or nylon
- Shoes plus socks
- Protective eyewear

For containers over 1 gallon but less than 5 gallons: Mixers and loaders who do not use a mechanical system (such as a probe and pump or agitator) to transfer the contents of the container must wear coveralls or a chemical-resistant apron in addition to other required PPE.

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 and washing PPE.

Engineering Controls Statements

For containers of 5 gallons or more: Do not open or pour this container. A mechanical system (such as a probe and pump or agitator) must be used to transfer the contents of the container. If the contents of a non-refillable pesticide container are emptied, the probe and pump must be stored in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 171.246(b)(4)). The handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

 obra 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: Flush with plenty of water. Call a physician or Poison Control Center.

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

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with fingers. If person is unconscious, do not give anything by mouth and do not induce vomiting.

Note to Physician: Contains ethylene glycol.

Environmental Hazards

This pesticide is toxic to some plants at very low concentrations. Non-target plants may be adversely affected if pesticide is allowed to drift from areas of application. Do not apply directly to water or to areas where surface water is present or to riparian areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.
RESTRICTED USE PESTICIDE
DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS
FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS, OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR’S CERTIFICATION.

GROUP 3 INSECTICIDE

Warrior II
with Zeon Technology®

Insecticide
Active Ingredient:
Lambda-cyhalothrin\textsuperscript{1,2} ........................................... 22.8%
Other Ingredients: .......................................................... 77.2%
Total: ......................................................................... 100.0%

Warrior II with Zeon Technology contains 2.08 lbs. of active ingredient per gal. and is a capsule suspension.
\textsuperscript{1}CAS No. 91465-08-6 \textsuperscript{2}Synthetic pyrethroid
Contains petroleum distillate.

KEEP OUT OF REACH OF CHILDREN.
WARNING / AVISO
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 additional precautionary statements and directions for use in booklet.
EPA Reg. No. 100-1295 EPA Est. 39578-TX-1
Product of the United Kingdom
Formulated in the USA
SCP 1295A-L2B 0709
304012

1 gallon
Net Contents

syngenta®
D·z·n® diazinon
AG500
INSECTICIDE

For control of certain insects on fruits, nuts, vegetables, field crops, lawns, and ornamentals.
This product must not be used on golf courses and sod farms.

RESTRICTED USE PESTICIDE
DUE TO AVIAN AND AQUATIC TOXICITY
FOR RETAIL SALE TO AND USE BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR’S CERTIFICATION.

ACTIVE INGREDIENT:
Diazinon:
O,O-Diethyl O-(2-isopropyl-6-methyl-4-pyrimidinyl) phosphorothioate .......................................................... 48.0%
INERT INGREDIENTS*: ........................................ 52.0%
TOTAL ...................................................................... 100.0%

*Contains xylene range aromatic solvent
D·z·n diazinon AG500 contains 4 lbs. diazinon per gallon.
EPA Reg. No. 100-461 EPA Est. 70404-AL-001

KEEP OUT OF REACH OF CHILDREN
CAUTION
Parts of a Label

- Precautionary Statements
  - Child Hazard Warning Statement
    - KEEP OUT OF REACH OF CHILDREN
AmTide
Imidacloprid 2F T & O

INSECTICIDE FOR FOLIAR AND SYSTEMIC INSECT CONTROL IN TURFGRASSES
(INCLUDING SOD FARMS), ORNAMENTALS, FRUIT AND NUT TREES, VEGETABLE
PLANTS, GREENHOUSES, NURSERIES AND INTERIOR PLANTSCAPES

ACTIVE INGREDIENT:
Imidacloprid, 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine .................. 22.8%
OTHER INGREDIENTS: ................................................................. 77.4%
TOTAL: .................................................................................... 100.0%
Contains 2 pounds imidacloprid per gallon.

STOP – READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN
CAUTION
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 label booklet for First Aid, Precautionary Statements and Directions for Use
including Storage and Disposal instructions.
—SHAKE WELL BEFORE EACH USE—

EPA Reg. No. 83851-13
EPA Est. No. 37429-GA-02

Net Contents: 1 Gallon (3.785 L)

Manufactured for:
AmTide, LLC
21 Hubble
Irvine, CA 92618, USA
949/753-4723
Signal Word

UNDERSTAND SIGNAL WORDS

DANGER POISON

Highly Toxic

Severe Eye Damage or Skin Irritation

MODERATELY TOXIC

Slightly Toxic

DANGER

WARNING

CAUTION
MOCAP® 20% Granular
Nematicide Insecticide

RESTRICTED USE PESTICIDE

ACUTE DERMAL TOXICITY
For retail sale to and use only by Certified Applicators or persons under the direct supervision of a Certified Applicator, and only for those uses covered by the Certified Applicator’s certification.

ACTIVE INGREDIENTS:
Ethoprop: (O-Ethyl S, S-Dipropyl Phosphorodithioate) ...................... 20%
INERT INGREDIENTS: .................................................. 80%
TOTAL ................................................................. 100%
EPA Reg. No. 264-469

KEEP OUT OF REACH OF CHILDREN

DANGER-POISON

PELIGRO
### Specimen Label

**Dow AgroSciences**

**Garlon® 3A**

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**Keep Out of Reach of Children**

**DANGER**

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.)

---

**Inert Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid equivalent: Triclopyr</td>
<td>44.4%</td>
</tr>
<tr>
<td>Total</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

**Acid equivalent:** Triclopyr - 31.8% - 3 lb/gal

**EPA Reg. No.** 02719-37

---

**Keep Out of Reach of Children**

**DANGER**

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.)
**BASF Corporation**

**BANVEL SGF®**

**HERBICIDE**

FOR WEED CONTROL IN SMALL GRAINS, FALLOW AND COTTON.

<table>
<thead>
<tr>
<th>ACTIVE INGREDIENT:</th>
<th>23.15%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium salt of dicamba (3,6-dichloro-α-anisic acid)*</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>INERT INGREDIENTS:</th>
<th>76.85%</th>
</tr>
</thead>
</table>

TOTAL 100.00%

*This product contains 21.06% 3,6-dichloro-α-anisic acid (dicamba) or 2 pounds per gallon (240 g/l).

EPA Reg. No. 7969-135

**KEEP OUT OF REACH OF CHILDREN**

**WARNING/AVISO**

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.)
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.)

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glyphosate</td>
<td>5.4 lbs</td>
</tr>
<tr>
<td>Isopropylamine Salt</td>
<td>4 lbs</td>
</tr>
</tbody>
</table>

Contains 5.4 pounds per gallon glyphosate, isopropylamine salt (4 pounds per gallon glyphosate acid).

EPA Reg. No. 62719-324

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.)
Parts of a Label

- Precautionary Statements
  - Hazards to Humans (and Domestic Animals)
  - Acute and Chronic symptoms
  - Routes of Entry
  - “Extremely Hazardous by skin contact, rapidly absorbed through skin”
Gramoxone® SL

Herbicide
A Weed, Grass, and Harvest Aid Desiccant/Defoliant Herbicide

Active Ingredient:
Parquat dichloride
(1,1'-dimethyl-4,4'-bipyridinium dichloride) 30.1%
Other Ingredients: 69.9%
Total: 100.0%

Contains 2.9 pounds parquat calgon per gallon or 2.762 pounds salt per gallon. Contains alerting agent (odor) emetic and dye.

KEEP OUT OF REACH OF CHILDREN.
DANGER / PELIGRO
POISON

SI usted no entienda 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.)

- NEVER PUT INTO FOOD, DRINK OR OTHER CONTAINERS.
- IF SWALLOWED, TAKE IMMEDIATE ACTION AS PRESCRIBED IN FIRST AID STATEMENT. SYMPTOMS ARE PROLONGED AND PAINFUL.
- DO NOT USE OR STORE IN OR AROUND THE HOME.
- DO NOT REMOVE CONTENTS EXCEPT FOR IMMEDIATE USE.

THE ODOR OF THIS PRODUCT IS FROM THE ALERTING AGENT WHICH HAS BEEN ADDED, NOT FROM PARQUAT.

EPA Reg. No. 100-1217
SCP 1217B-L1E 0711
346482
2.5 gallons
Net Contents
Parts of a Label

- Precautionary Statements
- PPE Requirements
- Also check Agricultural Use Requirements
Specimen Label

Dow AgroSciences

Forestry Garlon® XRT

Specialty Herbicide

Trademark of Dow AgroSciences LLC

For the control of woody plants and annual and perennial broadleaf weeds in forests and in the establishment and maintenance of wildlife openings.

Personal Protective Equipment (PPE)

Applicators and other handlers who handle this pesticide must wear:
- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves such as nitrile or butyl
- Protective eyewear

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

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the WPS (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/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
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 workers to enter treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber, and shoes plus socks.

Special Eye Irritation Provisions: This product is a severe eye irritant. Although the restricted entry interval expires after 12 hours, for the next 6.5 days entry is permitted only when the following safety measures are provided:

(1) At least one container designed specifically for flushing eyes must be available in operating condition at the WPS required decontamination site intended for workers entering the treated area.

(2) Workers must be informed, in a manner they can understand:

- that residues in the treated area may be highly irritating to their eyes
- that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes
- that if they do get residues in their eyes, they should immediately flush their eyes using the eyeflush container that is located at the decontamination site or using other readily available clean water
- how to operate the eyeflush container.
Parts of Label

- No PPE Listed?
  - Basic PPE when applying:
    - Underwear
    - Long-sleeved shirt
    - Long pants
    - Shoes and socks
    - Chemical resistant gloves
    - Eye protection
Parts of a Label

- Precautionary Statements (continued)
  - First Aid (Statement of Practical Treatment)
Sevin Label

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed, inhaled or absorbed through the skin. Wash thoroughly after use. Do not contaminate feed, food, ponds or streams. Very poisonous to bees. Avoid application on flowers and fruit blossoms.

FIRST AID: If in eyes, flush with water for 15 minutes. If on skin, wash thoroughly with soap and water. If swallowed, induce vomiting and get to a physician or hospital as quickly as possible. DO NOT TRY TO CAUSE VOMITING IF THE PATIENT IS UNCONSCIOUS OR IN A CONVULSIVE STATE. Take container, label or product name and P.C.P. Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Carbaryl is a moderate, reversible cholinesterase inhibitor. Atropine is antidotal.

DISPOSAL: Do not reuse empty container. Dispose of empty container with household garbage.

For additional product information or in case of emergency, spills or fire, call toll-free 1-800-268-2806.

SEVIN® is a registered trademark of Avenue's Group used under license by Nu-Grp U.S. Inc.
Parts of a Label

- Precautionary Statements (continued)

- Environmental Hazards

ENVIRONMENTAL HAZARDS
This product is extremely toxic to aquatic and estuarine invertebrates. Do not contaminate water by cleaning equipment or disposal of wastes.

BEE CAUTION: MAY KILL HONEYBEES IN SUBSTANTIAL NUMBERS.
This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.
Parts of a Label

- Precautionary Statements (continued)

- Other Precautionary Statements

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.
**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**DANGER PELIGRO**

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

- Corrosive
- Causes Irreversible Eye Damage
- Harmful If Swallowed or Inhaled
- Prolonged Or Frequent Exposure
- Repeated Skin Contact With Herbicide Concentrate May Cause An Allergic Skin Reaction In Some Individuals.

Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapor or spray mist.

**Personal Protective Equipment (PPE)**

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- 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.

**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.

**First Aid**

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

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

If swallowed: Call a physician or poison control center. Promptly drink a large quantity of milk, egg whites, or gelatin solution, or if these are not available, drink large quantities of water. Do not induce vomiting. Avoid alcohol.

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

**Note to Applicator:** Allergic skin reaction is not expected from exposure to spray mixtures of Garlon 3A herbicide when used as directed.

**Environmental Hazards**

Do not apply directly to water, 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 washwaters.

**Physical or Chemical Hazards**

Do not use or store near heat or open flame. Do not cut or weld container.

**Directions for Use**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the authority 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, directions for washables, use of protective clothing, and restricted-entry intervals. 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. Open dumping is prohibited.

Storage: Store above 35°F or agitate before use.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate, is a violation of federal law and may contaminate...
Parts of a Label

- Conditions of Sale and Limitations of Warranty and Liability
  - Name and address of manufacturer
  - Emergency Contacts
LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornados, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

611/1-2005 AP101904
EPA REG. NO. 33955-462

Manufactured By
pbi/GORDON CORPORATION
An Employee-Owned Company
1217 West 12th Street
Kansas City, Missouri 64101
consumer.pbigordon.com
Parts of a Label

Directions for Use

Standard language: misuse statement:

THE LABEL IS THE LAW!

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

other statements, do’s, do not’s...
Directions for Use

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

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

Directions for Use (continued)

- Agricultural Use Requirements and/or Nonagricultural Use Requirements
  - REI- Restricted Use Interval
  - PPE- Personal Protective Equipment
  - PHI- Pre Harvest Interval
  - Worker Notification / Field Posting
Precautionary Statements

Hazards to Humans and Domestic Animals

EPA Reg. No. 62719-519

CAUTION

Causes Moderate Eye Irritation
Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE)
Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Shoes plus socks

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.

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.

First Aid
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first

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
- Chemical-resistant gloves made of any waterproof material as polyethylene or polyvinyl chloride
- Shoes plus socks
- Protective eyewear

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 does not pertain to non-agricultural use on sites, such as, rangeland, permanent grass pastures, or non-cropland. See the Agricultural Use Requirements section below for information where the WPS applies.

Entry Restrictions for Non-WPS Uses: For applications on rangeland and permanent grass pastures (not harvested for hay) and non-cropland areas, do not enter or allow worker entry into treated areas until apos,
DANGER
PESTICIDES
KEEP OUT
NO ENTRE

PELGRO
PESTICIDAS
Parts of a Label

- Directions for Use (continued)
  - Application Directions:
    - sites, rates, application intervals, application equipment and methods, mixing directions, pests controlled, days to harvest, +/- adjuvant use, tank mix directions, chemigation statement, aerial application statement...
Garlon 4 Ultra

Specimen Label

Dow AgroSciences

Garlon® 4 Ultra

Specialty Herbicide

*Trademark of Dow AgroSciences LLC

For the control of woody plants and herbaceous broadleaf weeds in non-crop areas, including industrial manufacturing and storage sites, rights-of-way such as electrical power lines, communication lines, pipelines, roadsides, railroads, fence rows, non-irrigation ditch banks, forests and in the establishment and maintenance of wildlife openings. Use on these sites may include application to grazed areas.

Active Ingredient:
triclopyr: 3,5,6-trichloro-2-pyridinyloxyacetic acid, butoxyethyl ester ................................................................. 60.45%

Other Ingredients ........................................................................ 39.55%

Total .......................................................................................... 100.00%
released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

**Boom Length:** For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

**Application Height:** Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

**Swath Adjustment:** When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

**Wind:** Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**Temperature and Humidity:** When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**Temperature Inversions:** Applications should not occur during a local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small be reduced by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; by keeping the operating 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); and by spraying when wind velocity is low. Do not apply with nozzles that produce a fine droplet spray. Select nozzles and pressures which provide adequate plant coverage, but minimize the production of fine spray particles.

**High Volume Leaf-Stem Treatment:** To minimize spray drift, keep sprays no higher than brush tops and keep spray pressures low enough to provide coarse spray droplets. A agriculturally labeled thickening agent may be used to reduce spray drift.

**Mixing Directions**

Garlon 4 Ultra may be foliarly applied by diluting with water or by preparing an oil-water emulsion. For woody plant control, an oil-water emulsion performs more dependably under a broader range of conditions than a straight water dilution and is recommended for aerial applications.

**Oil-Water Mixture Sprays**

Prepare a premix of oil, surfactant and Garlon 4 Ultra in a separate container using diesel fuel, fuel oil, or kerosene plus an emulsifier such as Sponlo 712 or Triton X-100. Use a jar test to check spray mix compatibility before preparing oil-water emulsion sprays in the mixing tank. Do not allow any water or mixtures containing water to get into the premix or Garlon 4 Ultra since a thick "invert" (water in oil) emulsion may form that will be difficult to break. Such an emulsion may also be formed if the premix of Garlon 4 Ultra is put into the mixing tank before the addition of water. Fill the spray tank about one-half full with water, then slowly add the premix with continuous agitation and complete filling the tank with water. Continue moderate agitation.

**Oil Mixture Sprays for Basal Treatment**

Prepare oil-based spray mixtures using either a commercially available basal oil, kerosene diesel fuel, or No. 1 or No. 2 fuel oil. Substitute other oils or diluents only as recommended by the oil or diluent's manufacturer. When mixing an oil mixture, read and follow the use directions and precautions on the manufacturer's product label. Add Garlon 4 Ultra to the required amount of oil in the spray tank or mixing tank and mix thoroughly. If the mixture stands over four hours, reagitation is required.
stable mixture when mixed together directly in oil. Make a stable tank mixture for basal bark application by first combining each product with a compatibility agent prior to final mixing in the desired ratio. (See product bulletin for mixing instructions.) Tordon K is not registered for use in the states of California and Florida.

**Plants Controlled by Garlon 4 Ultra**

**Woody Plants Controlled**

- alder
- madrone
- arrowwood
- maples
- ash
- mulberry
- aspen
- oaks
- bear clover (bearnat)
- persimmon
- beech
- pine
- birch
- poison ivy
- blackberry
- poison oak
- blackgum
- poplar
- boxelder
- salmonberry
- Brazilian pepper
- saltbush
- buckthorn
- *Braccharis* spp.
- cascara
- chinquapin
- scotch broom
- choke cherry
- sumac
- cottonwood
- sweetbay magnolia
- *Crataegus* (hawthorn)
- sweetgum
- dogwood
- sycamore
- Douglas fir
- tanoak
- elderberry
- thimbleberry
- elm
- tree-of-heaven
- gallberry
- *Allanthus*¹
- gorse
- tulip poplar
- hazel
- wax myrtle
- hickory
- wild rose
- hornbeam

**Application Methods**

- Apply no more than 2 lb ae of triclopyr (2 quarts of Garlon 4 Ultra) per acre per growing season on range and pasture sites, including rights-of-way, fence rows or any area where grazing or harvesting is allowed.
- On forestry sites, triclopyr may be used at rates up to 6 lb ae (6 quarts of Garlon 4 Ultra) per acre per year.
- Triclopyr may be used at rates up to 8 lb ae (8 quarts of Garlon 4 Ultra) per acre per year on non-crop areas including industrial manufacturing and storage sites, non-grazed portions of rights-of-way including electrical power lines, communication lines, pipelines, roadsides and railroads, fence rows, non-irrigation ditch banks. Portions of grazed areas that intersect treated non-cropland, rights-of-way and forestry sites may be treated at up to 8 lb ae per acre if the area to be treated on the day of application comprises no more than 10% of the total grazable area.

Use Garlon 4 Ultra at rates of 1 to 8 quarts per acre to control broadleaf weeds and woody plants. It is suggested that rates higher in this rate range be used to control woody plants. In all cases, use the amount specified in enough water to give uniform and complete coverage of the plants to be controlled. The order of addition to the spray tank is water, spray thickening agent (if used), surfactant (if used), additional herbicide (if used), and Garlon 4 Ultra. If a standard agricultural surfactant is used, use at a rate of 1 to 2 quarts per acre. Use continuous adequate agitation.

Before using any recommended tank mixtures, read the directions and all precautions on both labels.

For best results apply when woody plants and weeds are actively growing. When hard to control species such as ash, blackgum, choke cherry, elm, maples (other than vine or big leaf), oaks, pines, or winged elm are prevalent, during applications made during late summer when the plants are mature, or during drought conditions, use the higher rates of Garlon 4 Ultra alone or in combination with Tordon® 101.
BRUSHTOX WITH TRICLOPYR CONCENTRATE

BRUSH KILLER

Treats Up To 1 Acre!

For the control of woody plants and broad leaf weeds on rangeland and permanent grass pastures, and conservation reserve program (CRP) acres (including fencerows and non-irrigation ditch banks within these areas), rights-of-way, ornamental turf, industrial sites, non-crop areas, non-irrigation ditch banks, forests, and wildlife openings, including grazed areas on these sites.

Cut Stump Treatment:
To control resprouting of freshly cut stumps.

For Basal Bark Treatment of Mesquite:

WOODY PLANTS CONTROLLED:

- Alder
- Aspen
- Beech
- Birch
- Blackberry
- Blackbrush
- Cottonwood
- Cherry
- Eucalyptus
- Hawthorn
- Huisache
- Locust
- Maple
- Milkweed
- Oaks
- Osage Orange
- Persimmon
- Peonia
- Sweetgum
- Trumpet
- Crepe
- Oak
- Peppermint
- Saltbush
- Salt Cedar
- Sassafras

SUMAC

ACTIVE INGREDIENT:
Triclopyr: 3,5,6-trichloro-2-pyridinyl oxacyclic acid, butyl ester

OTHER INGREDIENTS:
78.4%

TOTAL:
100.0%

Contains petroleum distillates
Acid equivalent: 64.3% - 41b/gal

EPA Reg. No. 42700-126-0409
EPA Est. No. 004840-LA-001
(ALB-031215N) 0315/01

KEEP OUT OF REACH OF CHILDREN
CAUTION - PRECAUCION

Stated not entender la etiqueta, busque a alguien para que se la ensipline a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)
See attached booklets for complete Precautionary Statements, Directions For Use & Storage and Disposal.
SENSITIVE AREAS
The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

PLANTS CONTROLLED BY BRUSHTOX™
Woody Plants Controlled

<table>
<thead>
<tr>
<th>alder</th>
<th>elm</th>
<th>poison oak</th>
</tr>
</thead>
<tbody>
<tr>
<td>arrowwood</td>
<td>gallberry</td>
<td>poplar</td>
</tr>
<tr>
<td>ash</td>
<td>gorse</td>
<td>salmonberry</td>
</tr>
<tr>
<td>aspen</td>
<td>granjeno</td>
<td>salt-bush (Braccharis spp.)</td>
</tr>
<tr>
<td>bear clover (bear-mat)</td>
<td>guajillo</td>
<td>salt-cedar+</td>
</tr>
<tr>
<td>beech</td>
<td>hawthorne</td>
<td>sassafras</td>
</tr>
<tr>
<td>birch</td>
<td>huisache (suppression)</td>
<td>scotch broom</td>
</tr>
<tr>
<td>blackberry</td>
<td>hazel</td>
<td>sumac</td>
</tr>
<tr>
<td>blackbrush</td>
<td>hickory</td>
<td>sweetbay magnolia</td>
</tr>
<tr>
<td>blackgum</td>
<td>hombeam</td>
<td>Sweetgum</td>
</tr>
<tr>
<td>boxelder+</td>
<td>kudzu++</td>
<td>sycamore</td>
</tr>
<tr>
<td>Brazilian pepper</td>
<td>locust</td>
<td>tanoak</td>
</tr>
<tr>
<td>buckthorn</td>
<td>Madrone</td>
<td>thimbleberry</td>
</tr>
<tr>
<td>cascara</td>
<td>Maples</td>
<td>tree-of-heaven (Ailanthus)</td>
</tr>
<tr>
<td>Ceanothus</td>
<td>Mulkweeds vine+</td>
<td>tulip poplar</td>
</tr>
<tr>
<td>cherry</td>
<td>mulberry</td>
<td>twisted acacia</td>
</tr>
<tr>
<td>Chinquapin</td>
<td>oaks</td>
<td>Virginia creeper+</td>
</tr>
<tr>
<td>choke cherry</td>
<td>pepper vine+</td>
<td>wax myrtle</td>
</tr>
<tr>
<td>cottonwood</td>
<td>persimmon</td>
<td>wild rose</td>
</tr>
<tr>
<td>Crataegus (hawthorn)</td>
<td>Pine</td>
<td>willow</td>
</tr>
<tr>
<td>dogwood</td>
<td>poison ivy</td>
<td>willow primrose</td>
</tr>
<tr>
<td>Douglas fir</td>
<td></td>
<td>winged elm</td>
</tr>
</tbody>
</table>

+ For best control, use either a basal bark or cut stump treatment.
++ For complete control, retreatment may be necessary.
BRUSHTOX™ as a broadcast treatment as directed above.

- Use spot treatment as directed above to control any remaining plants or thin stands of plants that germinate following a broadcast treatment.

INDIVIDUAL PLANT TREATMENT NON-FOLIAR APPLICATIONS

Low Volume Basal Bark Treatment (Also called Stem Spray Method)

Susceptible woody plants such as mesquite, huisache, red maple, red and white oak, birches and aspen, with stems less than 6 inches in basal diameter, can be controlled by low volume basal applications of BRUSHTOX™. Mix 20 to 30 gallons of BRUSHTOX™ in enough oil to make 100 gallons of total spray mixture. Apply with a backpack or knapsack (but not with a mistblower) using low pressure and a solid cone or flat-fan nozzle. Spray the basal parts of the brush and tree trunks to a height of 12 to 15 inches from the ground in a manner which thoroughly wets the lower stem, including the root collar area,
Parts of a Label

Storage and Disposal

Storage: Store in a cool, dry, well-ventilated area, but not below 32°F.

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. 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: Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.
Summary: Parts of a Label

**Identifying information**
- Product name, Ingredient statement, Net contents, EPA registration number and establishment number, Use classification (general/restricted; use pattern and site)...

**Precautionary Statements**
- Signal word, child hazard warning, first aid, hazards to humans and domestic animals, environmental hazards, physical or chemical hazards, PPE, engineering controls...

**Directions for Use**
- Ag (WPS) vs. non-ag use requirements, where and how to apply, how much and when to use, how to handle (mix, load, handle, store, and dispose of...)

**Conditions of Sale/ Limitations of Warranty and Liability**
- (+name and address of manufacturer, emergency contact info)
The Label is the LAW!

- Pesticide product labels provide instructions for proper pesticide use.

- Applicators must read, understand and follow label directions.
The Label is the LAW!

- Pesticides may not be applied to any plant, animal or site not listed on the product label.

- Materials may not be applied at higher rates or more frequently than the label directs.
Pesticide applicators are bound to follow label directions for transport, mixing, loading, application, storage and disposal of pesticides and pesticide containers.
The Label is the LAW!

- **Federal law (FIFRA) does allow use of some pesticides in ways not specifically mentioned in the labeling. Unless state law prohibits, applicators may:**
  
  - apply a pesticide at a rate or frequency less than the label directs.
The Label is the LAW!

- Unless state law prohibits, applicators may:

  - Mix pesticide with fertilizer, if the mixture is not prohibited by the pesticide product label.

  - Mix two or more pesticides, if all of the dosages are at or below the label rate for each separate component of the mixture, and if not prohibited by one of the product labels.
The Label is the LAW!

PESTICIDE LABEL DIRECTIONS:

- are not advice or suggestions;
- are legal requirements.
When to **READ THE LABEL**

- before purchase;
- before, during and after each use.
Why READ THE LABEL

- "Familiarity breeds contempt."
- Label directions change!
QUESTIONS?

THANKS!