

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 1 1994

Mr. Victor A. Dorr
Hoechst Celanese Corporation
Little Falls Center One
2711 Centerville Road
Wilmington, DE 19808

Dear Mr. Dorr:

Subject: Ignite 1SC Herbicide
EPA Registration Number 8340-42
Pesticide Petition Number 8F3607
New Uses: Apples, Grapes and Tree Nuts

The proposed amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable under Section 3(c)(7)(B) of FIFRA provided that you:

1. Submit an acceptable rat oncogenicity study (EPA Guidelines No. 83-2) on or before July 1, 1998.
2. Submit an acceptable field dissipation study (EPA Guidelines No. 164-1) on or before July 1, 1998.
3. Make the following label change before you release the product for shipment:

Move the Storage and Disposal instructions to under the Directions for Use section, either at the beginning or at the end of this section.

4. Submit production information (gallons produced) for this product for the fiscal year in which the uses on apples, grapes and tree nuts is conditionally registered, in accordance with FIFRA, section 29. The fiscal year begins October 1 and ends September 30. Production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.

The information should be submitted to:

Environmental Protection Agency
Registration Support Branch
Registration Division (7505W)
401 M Street, S.W.
Washington, D.C. 20460

CONCURRENCES

SYMBOL	7505C						
SURNAME	S. Miller						
DATE	7-1-94						

5. Submit one (1) copy of your final printed labeling before you release the product for shipment.

This amendment will expire automatically on July 1, 1998. Sale and distribution of the subject product bearing labeling for these uses after July 1, 1998, will be illegal. The tolerance authorizing residues of the subject product will also expire automatically, five (5) years after the date published in the FEDERAL REGISTER. After that date, sale or distribution of food in interstate commerce containing any residue of the subject product will be a violation of the Federal Food, Drug and Cosmetic Act.

Finally, once the required data have been submitted and a permanent tolerance established, EPA will entertain an application to amend the registration of the subject product without any special limitations on the duration of the amendment.

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.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

ACCEPTED
with COMMENTS
in EPA Letter Dated

Page 1 of 10

JUN 1 1994

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

Revised: February 18, 1994 (Edition #7)

8340-42

IGNITE[®] HERBICIDE

FOR NONSELECTIVE WEED CONTROL OF EMERGED WEEDS IN
APPLES, GRAPES, AND TREE NUTS

ACTIVE INGREDIENT:

Glufosinate-ammonium: ammonium-DL-homosalanin-4-yl-(methyl)
phosphinate..... 11.33%*

INERT INGREDIENTS:.....88.67%

TOTAL 100.00%

*Equivalent to 1.00 pound active ingredient per U.S. gallon.

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.)

EPA Reg. No. 8340 42

EPA Est. No. 8340-CN-01

Net Contents: [Various Sizes]

Hoechst Celanese Corporation
Route 202-206
P.O. Box 2500
Somerville, NJ 08876-1258

Hoechst 

PRECAUTIONARY STATEMENTS

WARNING

STATEMENT OF PRACTICAL TREATMENT

- 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 finger. Do not induce vomiting in or give anything by mouth to an unconscious person.
- IF IN EYES:** Flush with plenty of water. Get medical attention if irritation persists.
- IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation occurs.
- IF INHALED:** Remove individual to fresh air. Get medical attention if breathing difficulty develops.

For medical or environmental emergency,
call 1-800-228-5635, ext. 132.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes substantial but temporary eye injury. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

Personal Protective Equipment

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 must wear:

Long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils or viton ≥ 14 mils; 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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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 clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources or arable land. Glufosinate-ammonium and its degradates have those properties normally associated with pesticides that have been detected in groundwater. Use of this product in areas with coarse soils and high water tables may result in groundwater contamination.

STORAGE AND DISPOSAL

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

Do not use or store near heat or open flame.

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

CONTAINER DISPOSAL: Empty containers should be triple rinsed (or equivalent). Then offer for recycling or reconditioning, or puncture and 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.

IMPORTANT NOTICE: DISCLAIMER

Read "IMPORTANT NOTICE: DISCLAIMER" before buying or using. If terms are not acceptable, return at once unopened.

The directions for use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, or use of this product in a manner inconsistent with its labeling, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

HOECHST CELANESE CORPORATION warrants only that the product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to HOECHST CELANESE CORPORATION and user assumes the risk of any such use. HOECHST CELANESE CORPORATION MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY. In no case shall HOECHST CELANESE CORPORATION be liable for consequential, special, indirect or incidental damages resulting from the use or handling of this product. The foregoing conditions of sale and warranty can be varied only by an agreement in writing signed by a duly authorized representative of HOECHST CELANESE CORPORATION.

GENERAL INFORMATION

Ignite® Herbicide is a nonselective herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds. Ignite Herbicide will also control certain woody species. Plants that have not yet emerged at the time of application will not be controlled. THOROUGH SPRAY COVERAGE IS IMPORTANT. Visual effects and control from application of Ignite Herbicide occur within 2 to 4 days after application under good growing conditions. Ignite Herbicide is an organic product that decomposes into naturally occurring compounds.

Avoid all contact with foliage or green tissue of desirable vegetation. This product is nonselective and will injure or kill all green vegetation contacted by the spray. If desirable vegetation is contacted, rinse the sprayed portion with water immediately to reduce potential injury.

Ignite Herbicide works best when weeds are actively growing. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Weeds under stress or in dense populations will require application at the highest rate recommended. Refer to the "How to Apply" section of this label.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not use this product until you have read the entire label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

TREE AND VINE CROPS

Ignite Herbicide can be used as a directed spray to control undesirable vegetation in the following orchards, groves and vineyards. When applied as recommended in this label, Ignite Herbicide controls annual and perennial weeds. Refer to the "How to Apply" section of this labeling for recommended rates and a list of weeds controlled. Applications may be made on a broadcast, banded or spot treatment basis depending on the situation. Avoid direct spray or drift to desirable vegetation. Regrowth may occur due to the weed stage of growth at application, low use rate or environmental conditions. Repeat treatments may be necessary to control plants generating from underground parts or seed.

Tree Nuts

pecans
walnut
filbert
hickory nut
macadamia nut (bush nut)

Vineyards

all grape
varieties
(table, wine, or
raisins)

Tree Fruits

apples

Do not apply on desirable foliage or allow spray to drift onto the foliage of trees and vines as damage will occur. Avoid contact with green or uncallused bark on young trees and vines as injury may occur. Ignite Herbicide should not be used on trees within one year of transplanting.

Refer to the "When to Apply", "How to Mix" and "How to Apply" sections of this label for information on how and when to properly mix and apply this product. Do not apply more than 18 quarts of Ignite Herbicide per acre to tree and vine crops in a 12-month period.

WHEN TO APPLY

Ignite Herbicide is a foliar-active material with no soil-residual activity. Best results are obtained when applications are made to actively growing weeds. Ignite Herbicide is rainfast 4 hours after application. Rainfall within 4 hours may necessitate retreatment. Do not irrigate within 4 hours of treatment.

Ignite Herbicide should be applied at the rate recommended in the "How to Apply" section of this label. Repeat applications of Ignite Herbicide or tank mixes of Ignite Herbicide with appropriate residual herbicides will be needed to control weeds emerging from underground parts or seeds.

When using Ignite Herbicide in a program approach with other herbicides, follow the precautions and directions of those herbicides as to the most appropriate rate selection.

HOW TO MIX

Ignite Herbicide must be mixed with water to make a finished spray solution as follows:

1. Fill the spray tank with the required amount of water.
2. Add the proper amount of Ignite Herbicide

HOW TO APPLY

Ignite Herbicide may be applied by ground equipment only. Backpack, pump-up, and hydraulic sprayers may be used. Do not apply this product aerially. Do not apply this product through any type of irrigation system. Good spray coverage of target weeds is important for optimum control.

BROADCAST APPLICATION

Use the recommended rate of Ignite Herbicide as shown in the following sections. Use a minimum of 20 gallons of water per acre with a minimum of 30 psi spray pressure. Proper calibration of sprayers is needed to assure applications at the correct rates and volumes. As density of weeds increases, spray gallonage and/or pressure should be increased to ensure complete coverage.

BANDED APPLICATION

Banded applications may be used using the following formula to calculate the amount of herbicide needed:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Rate per acre broadcast} = \text{Amount of herbicide needed for treatment}$$

For best results with ground broadcast or banded application equipment, use flat fan nozzles. Check for even distribution of spray droplets. Do not apply when weather conditions favor runoff or drift.

SPOT OR DIRECTED-SPRAY APPLICATION

Ignite Herbicide may be used as a spot or directed-spray application using 1.5 to 4 fluid ounces per gallon of water. Mix 1.5 to 4 fluid ounces per gallon of water depending upon the weed and stage of growth as shown in the following sections. Spray undesirable vegetation foliage on a spray-to-wet basis prior to runoff. Ensure uniform and complete coverage. Use a coarse spray. Do not spray during windy conditions. Backpack, pump-up, and hydraulic sprayers may be used. Thoroughly clean the sprayer following use.

Weeds Controlled by Ignite Herbicide

For spot application:

Apply 1.5 fluid ounces per gallon of water.

For broadcast application:

Apply 3 quarts per acre when the weeds are less than 6 inches tall.

Apply 5 quarts per acre when the weeds are 6 inches or taller.

Broadleaf Weeds

chickweed
clover
common cocklebur
filaree
jimsonweed
kochia
London rocket
malva (little mallow)
marestail
purslane
shepherdspurse
smartweed

Grasses and Sedges

barnyardgrass
cupgrass
fall panicum
giant foxtail
goosegrass
green foxtail
johnsongrass
lovegrass
shattercane
stinkgrass
windgrass
yellow foxtail

Weeds Controlled by Ignite Herbicide

For spot application:

Apply 3-4 fluid ounces per gallon of water.

For broadcast application:

Apply 4 quarts per acre when the weeds are less than 8 inches tall.

Apply 6 quarts per acre when the weeds are 8 inches or taller.

Broadleaf Weeds

annual sowthistle
bindweed
buffalobur
burdock
Canada thistle
curly dock
dandelion
dogbane (hemp)
field gromwell
fleabane
goldenrod
horsetail
lambsquarters
leafy spurge
mugwort
musk thistle
nettle
nightshade
pennycress
pigweed, red root
plantain
prickly lettuce
ragweed
Russian thistle
tansy mustard
velvetleaf
vervain
vetch
Virginia cooperleaf
white clover
white heath aster
wild buckwheat
wild mustard
wild onion
wild rose
wild turnip
woodsorrel
yellow rocket

Grasses and Sedges

annual bluegrass
bahiagrass
barley
Bermudagrass
carpetgrass
crabgrass
dallisgrass
downy brome
fescue
guineagrass
Kentucky bluegrass
nutsedge
paragrass
quackgrass
ryegrass
sandbur
smooth brome
torpedograss
vaseygrass
wheat
wild oat

Woody Species

Rubus spp.
poison ivy/oak

Sucker Control with Ignite Herbicide

Ignite Herbicide will give excellent control of suckers or canes without injury to mature trees or vines. For sucker control, a split application approximately 4 weeks apart at 4 quarts per acre is recommended or spot spray with 3 ounces per gallon of water. Coverage of all sucker foliage is necessary for optimum control. Suckers should not exceed 12 inches in length.

TANK MIXTURES

Always predetermine the compatibility of labeled tank mixtures of this herbicide with water carrier by mixing small proportional quantities in advance. Always add individual formulations to the spray tank according to the following sequence (first to last): wettable powder, flowable, emulsifiable concentrate, drift control additive, water-soluble liquid followed by surfactant.

Mixing procedures:

1. Fill the spray tank one-half full with water.
2. Add to the spray tank the product to be tank mixed.
3. Fill the spray tank with water to the desired level.
4. Add the recommended amount of Ignite Herbicide, always add the Ignite Herbicide last to help reduce foaming.
5. Nonionic antifoaming agents may be used.
6. Additional surfactant is not needed.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep bypass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground application equipment, the use of flat fan nozzles is suggested.

TANK MIX RECOMMENDATIONS FOR TREE AND VINE CROPS

Ignite Herbicide does not provide residual weed control. Ignite Herbicide will not control underground, unexposed plants or plant parts. Delay application until plants have emerged. Tank mix applications of Ignite Herbicide plus suitable residual herbicides are recommended for broad spectrum control and residual activity. Refer to label of companion tank mix products for directions, limitations, warnings, and list of weeds controlled.

RATE OF PRODUCT/ACRE

<u>HERBICIDE</u>	<u>TREE NUTS</u>	<u>VINEYARDS</u> (Grapes)	<u>TREE FRUITS</u> (Apples)
Simazine 4L	Do Not Use	2.0-4.8 qt.	2-4 qt.
Simazine 80W	Do Not Use	2.5-6.0 lb.	2.5-5.0 lb.
Simazine 90	Do Not Use	2.2-5.3 lb.	2.2-4.4 lb.
Karmex ¹ DF	2-6 lb.	2-6 lb.	4 lb.
Sinbar ¹ 80W	1.5-3.0 lb.*	Do Not Use	2-4 lb.
Sollicam ² DF	2.5-5.0 lb.	2.5-5.0 lb.	2.5-5.0 lb.
Surflan ³ 4AS	2-6 qt.	2-6 qt.	2-6 qt.
Devrinol ⁴ 50WP	8 lb.	8 lb.	4 lb.
Goal ⁵ 1.6E	2.5-10 pts.	2.5-10 pts.	2.5-10 pts.
Princep ⁶ 4L	1-4 qts.	2-4.8 qts.	2-4 qts.

*For tank mix applications to tree nuts, Sinbar 80W may be mixed with Ignite Herbicide for use on pecans only.

Registered trademark of: 1. E.I. duPont de Nemours & Company; 2. Sandoz Crop Protection Corporation; 3. DowElanco; 4. Zeneca Inc., Ag Products; 5. Rohm & Haas Co.; 6. CIBA-GEIGY Corp.

SPECIAL NOTES

1. **DO NOT** apply more than 4.5 gallons of this product per acre to any site in any calendar year.
2. **DO NOT** graze, harvest and/or feed treated orchard cover crops to livestock.
3. **DO NOT** apply this product through any type of irrigation system.
4. **DO NOT** apply this product aerially.
5. **DO NOT** apply this product within 14 days of nut, apple or grape harvest.
6. Compatibility of Ignite Herbicide and clay-based, dry flowable herbicides should be determined before tank mixing.