

**ACCEPTED**  
**DEC 14 1982**  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 registered under  
 Reg. No.



# HEL-FIRE

FOR CONTROLLING MOST ANNUAL WEEDS AND GRASSES AND KILLING TOP GROWTH OF HERBACEOUS PERENNIAL WEEDS AND GRASSES ALSO FOR PREHARVEST SPRAYING OF POTATOES AND OF SEED CROPS OF LEGUMES AND SOYBEANS TO FACILITATE HARVEST.

**ACTIVE INGREDIENTS:**  
 Dinoseb (2-sec-butyl-4, 6-dinitrophenol) ..... 24.00%  
**INERT INGREDIENTS:** ..... 76.00%  
**TOTAL** ..... 100.00%

This Product Contains 1.87 lbs. of 4, 6-Dinitro-o-sec-butylphenol per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

**DANGER POISON**

**STATEMENT OF PRACTICAL TREATMENT**

**Symptoms of Poisoning:** Excessive salivation, thirst and fever. If symptoms persist, get medical attention. Send for a physician.  
**First Aid:** Have person lie on their side. If available, if feasible, use mouth-to-mouth respiration or artificial respiration.  
**If Swallowed:** Drink 2 glasses of water and induce vomiting. Do not induce vomiting if the person has had a seizure. Never give anything by mouth to a person who is unconscious.  
**Inhalation:** Remove person to fresh air. If breathing is difficult, give oxygen.  
**Skin:** Remove clothing and immediately wash skin thoroughly with soap and water.  
**Eyes:** In case of contact, flush immediately with water for at least 15 minutes.  
**Note to Attending Physician:** Active ingredient is a metabolic stimulant. Treat symptomatically.  
 SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

## Precautionary Statements Hazards to Humans and Domestic Animals **DANGER**

May be fatal if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Avoid breathing spray. Keep away from heat and open flame. Do not wear contaminated clothing or shoes if symptoms of poisoning develop. Send for a physician.

## Environmental Hazards

This product is toxic to fish and wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply when adverse conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

## Physical and Chemical Hazards

**COMBUSTIBLE — DO NOT USE, POUR, SPILL OR STORE NEAR HEAT OR OPEN FLAME.**

## DIRECTIONS FOR USE

This is a statement of Federal law which is printed in plain language to assist you in understanding the directions for use.

### Storage and Disposal

**Important:** Do not store at temperature below 20 F. If stored at lower temperatures, allow for 24 hours at 20 F. before using.

**RESIDUE DISPOSAL:** For residue, spray mixture, or rinse water that cannot be used according to label instructions, must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or prepare and dispose of in a sanitary landfill, or by other approved state and local procedures.

**USE ON:** AIRFIELDS, DRIVEWAYS, WALKS, DRY YARDS, FENCE LINES, RAILROADS, ROADSIDES, WASTE PLACES, AND AROUND INDUSTRIAL ESTABLISHMENTS, POLE YARDS AND OIL TANKS AREAS FOR CONTROLLING VEGETATION.

Helena Brand Hel Fire when used with tractors. Use high spray to wet all vegetation. Use a fine satisfactory barbed wire grass and 1/4 inch coarse grass. Hel Fire kills 3/4 weed control. Hel Fire kills 1/4 weed control. Hel Fire kills 1/4 weed control. Hel Fire kills 1/4 weed control. Hel Fire kills 1/4 weed control. Hel Fire kills 1/4 weed control. Hel Fire kills 1/4 weed control. Hel Fire kills 1/4 weed control. Hel Fire kills 1/4 weed control. Hel Fire kills 1/4 weed control.

**Contact Pre-Emergence Weed Control:** Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control.

**Control of Weeds in Grapes and Bush Fruit:** Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control.

**Weed Control in Airfields:** Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control.

**Preharvest Spraying of Airfields:** Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control.

**Areas Not for Feed Forage or Seed From Trees:** Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control.

**Killing Field Weeds:** Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control.

**Directed Spray to Ground Cover:** Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control. Hel Fire is a pre-emergence weed control.



**Warnings**  
**Domestic Animals**

Protect clothing. Avoid breathing spray  
while working or shoes. If symptoms of

**Hazards**

Keep out of reach of children and  
wildlife in water. Do not apply  
near food crops. Conditions favor  
volatility of equipment.  
See this label.

**Hazards**

DO NOT BURN NEAR HEAT OR OPEN

**USE**

Use consistent with its labeling.

**Sal**

At 20° F bring the contents of the

Keep that cannot  
be recycled to  
be recycled

Offer for recycling or  
landfill, or by

ROADS, FENCE LINES,  
AROUND INDUSTRIAL  
WORK AREAS FOR

Helena Brand Hel Fire when used with the proper amount of water will control all common weeds, grasses and  
grasses. Use enough spray to wet all weeds thoroughly, as it acts by contact and systemic. This weed control  
action is effective for control of small-seeded annual weeds such as crabgrass, foxtail, and  
barnyard grass, and of small-seeded annual weeds such as pigweed, prostrate sparrowgrass, and  
Coastal bermudagrass. Foxtail and Barnyard grasses are most susceptible to control. Hel Fire  
control is also effective on large-seeded annual weeds such as giant foxtail, and on the  
weeds that are most difficult to control. Hel Fire is also effective on the weeds that are most  
difficult to control. Hel Fire is also effective on the weeds that are most difficult to control.

**Contact Pre-Emergence Weed Control:** Helena Brand Hel Fire may be used to control weeds that emerge before certain  
crops. When practical, till the land several days before seeding. Hel Fire is most effective when applied at the time of  
spraying. For use on land planted to the large-seeded crops, it is most effective when applied to the soil in the  
pumpkin, potatoes and radishes. Spray at least one day before first emergence of the crop using 2 quarts of Helena  
Brand Hel Fire per acre. Mix this amount with 5-20 gallons of water for aerial application or 20-40 gallons of water by  
ground and apply as a fine spray to ensure wetting of the weeds.

**Control of Weeds in Grapes and Bush Fruits:** Apply spray containing Helena Brand Hel Fire when weeds are growing well  
but before they are 6 inches high. On grapes, applications can be made up to 3 or 4 weeks after bloom. For use in the  
spring before bloom, or in the fall after harvest, use 1 quart of Helena Brand Hel Fire in about 30 gallons of water. For use  
during bloom and up to 3 or 4 weeks after bloom, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Use up to 1/2 quart per acre for pre-bloom spray coverage. Apply as a directed spray to the weeds and  
soil in such a way as to avoid contact with grape foliage. Use 1/2 quart per acre for pre-bloom spray coverage. For use  
during bloom and up to 3 or 4 weeks after bloom, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Apply at a rate of 1/2 quart per acre. Under the grapevines where weed control problems with the most  
difficult to control. For such bare treatments, the gain in yield per acre should be weighed  
properly. Repeat if needed, but make no more than 2 applications. Do not use on bush fruits such as  
blackberries, blueberries, currants, gooseberries and raspberries. Use 1/2 quart of Helena Brand Hel Fire in 30 gallons  
of water. Apply at the rate of 1/2 quart per acre. Do not spray directly on the fruit. Do not spray directly on the fruit.  
Use the fog spray and do not treat the ground under the fruit. Do not treat the ground under the fruit.

**Weed Control in Alfalfa:** Apply spray containing Helena Brand Hel Fire to alfalfa crops when weeds are growing well  
but before they are 6 inches high. Applications can be made up to 3 or 4 weeks after bloom. For use in the  
spring before bloom, or in the fall after harvest, use 1 quart of Helena Brand Hel Fire in about 30 gallons of water. For use  
during bloom and up to 3 or 4 weeks after bloom, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Use up to 1/2 quart per acre for pre-bloom spray coverage. Apply as a directed spray to the weeds and  
soil in such a way as to avoid contact with alfalfa foliage. Use 1/2 quart per acre for pre-bloom spray coverage. For use  
during bloom and up to 3 or 4 weeks after bloom, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Apply at a rate of 1/2 quart per acre. Under the alfalfa plants where weed control problems with the most  
difficult to control. For such bare treatments, the gain in yield per acre should be weighed  
properly. Repeat if needed, but make no more than 2 applications. Do not use on alfalfa such as  
blackberries, blueberries, currants, gooseberries and raspberries. Use 1/2 quart of Helena Brand Hel Fire in 30 gallons  
of water. Apply at the rate of 1/2 quart per acre. Do not spray directly on the fruit. Do not spray directly on the fruit.

**Pre-harvest Spraying of Alfalfa, Clover, Peas and Soybeans To Facilitate Harvest of Crops Grown for Seed:** Apply spray  
containing Helena Brand Hel Fire to alfalfa, clover, peas and soybeans when the crops are ready for harvest. For use  
in the spring before harvest, or in the fall after harvest, use 1 quart of Helena Brand Hel Fire in about 30 gallons of water. For use  
during harvest and up to 3 or 4 weeks after harvest, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Use up to 1/2 quart per acre for pre-harvest spray coverage. Apply as a directed spray to the weeds and  
soil in such a way as to avoid contact with crop foliage. Use 1/2 quart per acre for pre-harvest spray coverage. For use  
during harvest and up to 3 or 4 weeks after harvest, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Apply at a rate of 1/2 quart per acre. Under the alfalfa plants where weed control problems with the most  
difficult to control. For such bare treatments, the gain in yield per acre should be weighed  
properly. Repeat if needed, but make no more than 2 applications. Do not use on alfalfa such as  
blackberries, blueberries, currants, gooseberries and raspberries. Use 1/2 quart of Helena Brand Hel Fire in 30 gallons  
of water. Apply at the rate of 1/2 quart per acre. Do not spray directly on the fruit. Do not spray directly on the fruit.

**Killing Potato Tines:** Spray 10 to 20 days before harvest. The chemical in the spray kills the weeds and  
potatoes are ready for harvest. For use in the spring before harvest, or in the fall after harvest, use 1 quart of Helena Brand Hel Fire in about 30 gallons of water. For use  
during harvest and up to 3 or 4 weeks after harvest, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Use up to 1/2 quart per acre for pre-harvest spray coverage. Apply as a directed spray to the weeds and  
soil in such a way as to avoid contact with potato foliage. Use 1/2 quart per acre for pre-harvest spray coverage. For use  
during harvest and up to 3 or 4 weeks after harvest, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Apply at a rate of 1/2 quart per acre. Under the potato plants where weed control problems with the most  
difficult to control. For such bare treatments, the gain in yield per acre should be weighed  
properly. Repeat if needed, but make no more than 2 applications. Do not use on potato such as  
blackberries, blueberries, currants, gooseberries and raspberries. Use 1/2 quart of Helena Brand Hel Fire in 30 gallons  
of water. Apply at the rate of 1/2 quart per acre. Do not spray directly on the fruit. Do not spray directly on the fruit.

**Directed Spray To Ground Cover:** For control of weeds and grasses. For use in the spring before bloom, or in the fall after harvest, use 1 quart of Helena Brand Hel Fire in about 30 gallons of water. For use  
during bloom and up to 3 or 4 weeks after bloom, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Use up to 1/2 quart per acre for pre-bloom spray coverage. Apply as a directed spray to the weeds and  
soil in such a way as to avoid contact with crop foliage. Use 1/2 quart per acre for pre-bloom spray coverage. For use  
during bloom and up to 3 or 4 weeks after bloom, use no more than 1/2 quart of Helena Brand Hel Fire per 30 gallons of  
spray. Apply at a rate of 1/2 quart per acre. Under the ground cover where weed control problems with the most  
difficult to control. For such bare treatments, the gain in yield per acre should be weighed  
properly. Repeat if needed, but make no more than 2 applications. Do not use on ground cover such as  
blackberries, blueberries, currants, gooseberries and raspberries. Use 1/2 quart of Helena Brand Hel Fire in 30 gallons  
of water. Apply at the rate of 1/2 quart per acre. Do not spray directly on the fruit. Do not spray directly on the fruit.

**Control of the Basal Spike Phase of Downy Mildew on Hops:** Control is obtained by killing the basal parts of vines to  
prevent the infection. Mix 1 quart of Helena Brand Hel Fire in enough water to make 30 gallons of spray. Provide  
coverage of all vines during and just before and just after the basal spike phase of the disease. Use the rate of 1/2 quart per  
acre. Repeat if needed, but make no more than 2 applications. Do not use on hops such as blackberries, blueberries, currants, gooseberries and raspberries. Use 1/2 quart of Helena Brand Hel Fire in 30 gallons of water. Apply at the rate of 1/2 quart per acre. Do not spray directly on the fruit. Do not spray directly on the fruit.

**Use Precautions:** Do not spray on to bees. Do not apply to young replants in mature plantings or to partially "baby"  
plants. Do not apply within 14 days of harvest.

**PEANUTS**

Make one early application (preemergence, early cracking stage, or early postemergence) followed by one or two later postemergence applications as needed, in accordance with the following directions.

**PREEMERGENCE** - Use 4.8 to 6.4 gallons of Hel-Fire in about 30 gallons of water per acre as an overall spray. Apply at any time between planting and emergence.

**EARLY CRACKING STAGE** - Use 3.2 gallons of Hel-Fire in about 30 gallons of water per acre as an overall spray.

**EARLY POSTEMERGENCE** (from emergence until the plants are 1 1/2 to 2 inches in diameter) Apply overall using 1.6 gallons of Hel-Fire in about 30 gallons of water per acre. Such an application will control weeds just coming through, but will not provide long-term residual effectiveness. Some foliage injury may be noted on the peanuts, particularly if the temperatures are high.

**LATE POSTEMERGENCE** - By shielding the peanuts with fenders, or similar devices, to protect the plants from most of the spray, one or two directed applications may be made up to one month after the early cracking stage. Apply when new weeds are first visible. Use 0.8 gallons of Hel-Fire in about 30 gallons of water per acre.

**NOTE: DO NOT GRAZE TREATED AREAS OR USE TREATED FOLIAGE FOR FEED OR FORAGE**

**Do Not Re-Use This Container For Any Purpose**

**WARRANTY AND LIMITATION OF DAMAGES:** This product is warranted to be free from mechanical and electrical defects in materials and workmanship under normal use and service. The manufacturer's liability is limited to the replacement of the product or to a refund of the purchase price. The manufacturer shall not be liable for consequential or special damages. This warranty is void where prohibited by law. **FITNESS FOR MERCHANTABILITY** - The manufacturer warrants that the product is fit for the ordinary purposes for which it is intended.

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SN-0980/0981-M

EPA Est. No.

**SUBSTITUTED NITROPHENOL PESTICIDE LIQUID N.O.S.**

**NET CONTENTS**

**GALLONS**