

# SELECTIVE HERBICIDE

# CHEM

# HOE

# 2EC

EMULSIFIABLE CONCENTRATE  
CONTAINS 2 POUNDS IPC PER GALLON

**ACTIVE INGREDIENT**

Isopropyl N-phenylcarbamate ..... 25.5%

**INERT INGREDIENTS** ..... 74.5%

100.0%

**WARNING! KEEP OUT OF REACH OF CHILDREN  
HARMFUL IF SWALLOWED**

Keep away from heat and open flame.

Do not take internally.

Avoid prolonged breathing of vapor or spray mist.

Use with adequate ventilation.

Avoid contact with skin and eyes.

In case of skin contact wash with plenty of soap and water.

In case of contact with eyes, flush with water; if swallowed,  
induce vomiting; GET IMMEDIATE MEDICAL ATTENTION.

**NET CONTENTS 5 GALLONS**

MAR 20 1969

773-206

**Chemicals**



**INDUSTRIES**

# CHEM HOE 2EC—DIRECTI

## LETTUCE---DIRECT SEEDED---PREPLANT

### Tank Mixtures with BALAN (for Application in California)

Within two days before planting, uniformly apply 1 1/2 to 2 gallons

CHEM HOE 2EC [3 to 4 lbs. propham (IPC)] plus 2/3 to 1 gallon BALAN<sup>TM</sup>

Liquid Concentrate (1 to 1 1/2 lbs. benefin) per acre. The lower levels

are for light (sand and sandy loam) and medium soils (loam, silt loam, and

silt), and the higher levels are for heavy soils (clay, clay loam, and

silty clay). Apply in sufficient water to give uniform coverage, using

a properly calibrated low-pressure herbicide sprayer. Depending upon

equipment, from 10 to 60 gallons per acre of final spray dilution may be

used. For band applications, use proportionately less. Irrigate as soon

as possible but no later than 5 days after application and incorporation.

Incorporation---Incorporate chemicals thoroughly into the surface

immediately after application. Good incorporation may be achieved with

many tools including the following:

P.T.O.-driven equipment (tillers, cultivators, hoes) set to cut 2-3 inches deep with rotors spaced to provide a clean sweep of the soil.

Double disc (or double disc with spiketooth harrow in tandem) set to cut 3-6 inches deep and operated in two different directions (cross disced) at 4-6 mph.

NOTICE: Use of this product in a manner or at a time or in quantities or on crops other than in accordance with the directions may result in crop injury.

The following directions are supplied for information purposes only. They are believed to be reliable but are in no way guaranteed. While these directions pertain to application under average conditions, ineffective weed control or crop damage may result from differing conditions of soil, temperature, moisture and crop variety. Therefore, before large-scale use, this product should be applied on a trial basis under conditions actually encountered. Consult state agricultural experimental station or extension service weed specialist for detailed recommendations of application under varying local conditions.

CHEM HOE 2EC controls many winter annual grasses and certain annual broadleaved weeds. CHEM HOE 2EC used according to directions will normally give effective control of the following: Chickweed, Small Nettle, Volunteer Grains, Annual Blue Grass, Wild Oats, Downy Brome (Cheatgrass), Rat-Tail Fescue, Annual Rye Grass, Canary Grass, Velvet Grass, Pigeon Grass, Brome Grass, Rabbitfoot Grass, and Foxtail.

NOTE: No control should be expected of established perennial weeds. Adequate soil moisture is very important for effective use of CHEM HOE 2EC. Irrigation is essential where rainfall does not maintain adequate soil moisture after application. Thoroughly mix this product with water according to the instructions, and maintain agitation of the mixture during the application. Most effective weed control will be obtained where soil temperatures are below 55 F. at time of treatment.

CAUTION: Thoroughly clean tanks, lines, and pumps of spray equipment before use in applying CHEM HOE 2EC. Oily residues of previously handled materials can seriously affect the suspension qualities of CHEM HOE 2EC.

**ALFALFA AND CLOVER**—*Preplant*—For control of germinating grasses: Within 2 days before planting, uniformly apply 6 to 8 quarts of CHEM HOE 2EC in 20 to 60 gallons of water per acre. Do not disc into soil.

**ALFALFA AND CLOVER**—*Pre-emergence*—For control of germinating grasses. Uniformly apply 6 to 8 quarts of CHEM HOE 2EC in 20 to 60 gallons of water per acre within 2 days after planting. Rainfall or overhead irrigation is necessary soon after application for successful results.

**ALFALFA AND CLOVER**—*Post-emergence*—For control of Winter annual grasses. Uniformly apply 6 to 8 quarts of CHEM HOE 2EC in 20 to 60 gallons of water per acre. Make application in late winter or early spring. Apply when crop has at least 3 true leaves.

**LETTUCE**—*Preplant*—(For application in California and Arizona)—Within 2 days before planting, uniformly apply 8 to 12 quarts of CHEM HOE 2EC in 20 to 40 gallons of water per acre broadcast. Incorporate with a power driven rotary tiller to mix the herbicide into the top 2 inches of soil. Furrow irrigate within a few days after application.

**LETTUCE**—*Pre-emergence*—Uniformly apply 7 1/2 to 12 quarts of CHEM HOE 2EC in 20 to 40 gallons of water per acre broadcast within 2 days after planting. At least 1/2 inch of rainfall or sprinkler irrigation is required within a few days after application for best results.

**LETTUCE**—*Post-emergence*—Apply when the lettuce has at least 4 or more leaves. Uniformly apply 9 to 12 quarts of CHEM HOE 2EC in 40 gallons or more of water per acre. Apply as directed shielded spray. Irrigate following application to move the chemical into the soil and root zone of the weed plants.

**SAFFLOWER**—*Preplant*—Within 2 days before planting, uniformly apply 6 to 8 quarts of CHEM HOE 2EC in 35 to 50 gallons of water per acre. Shallow incorporate 1 to 2 inches and follow with furrow irrigation.

**SAFFLOWER**—*Pre-emergence*—Uniformly apply 6 to 8 quarts of CHEM HOE 2EC in 35 to 50 gallons of water per acre within 2 days after planting. Rainfall or sprinkle irrigation is essential after treatment for weed control.

**SPINACH**—*Pre-emergence*—Apply 7 1/2 to 10 quarts of CHEM HOE 2EC in 20 to 40 gallons of water per acre broadcast after planting. At least 1/2 inch rainfall or sprinkler irrigation should follow application within a few days for successful results.

**SPINACH**—*Post-emergence*—Uniformly apply 9 quarts of CHEM HOE 2EC in 20 to 40 gallons of water per acre. Apply when spinach is in 2-4 leaf stage to control germinating annual weeds. At least 1 inch of rainfall or sprinkler irrigation should follow application within a few days for successful results.

**STRAWBERRIES**—*Dormant Only*—One continuous week with nights below freezing will usually force dormancy. Do not apply later than 6 weeks before strawberry plants resume growth in Spring. Do not use on everblooming varieties. Apply 7 1/2 to 12 quarts of CHEM

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Kentucky Bluegrass  
Tall Fescue  
Orchardgrass

Creeping Fescue  
Chewing Fescue

Highland Bentgrass  
Astoria Bentgrass

\*Mix in 20 gallo

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USDA REG. No. 748-206

CHEMICAL DIVISION  
PITTSBURGH, PENNSYLVANIA 15

# CHEM HOE 2EC—DIRECTIONS FOR USE

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**ALFALFA AND CLOVER—Post-emergence**—For control of Winter annual grasses. Uniformly apply 6 to 8 quarts of CHEM HOE 2EC in 20 to 60 gallons of water per acre. Make application in late winter or early spring. Apply when crop has at least 3 true leaves.

**LETTUCE—Preplant**—(For application in California and Arizona)—Within 2 days before planting, uniformly apply 8 to 12 quarts of CHEM HOE 2EC in 20 to 40 gallons of water per acre broadcast. Incorporate with a power driven rotary tiller to mix the herbicide into the top 2 inches of soil. Furrow irrigate within a few days after application.

**LETTUCE—Pre-emergence**—Uniformly apply 7½ to 12 quarts of CHEM HOE 2EC in 20 to 40 gallons of water per acre broadcast within 2 days after planting. At least ½ inch of rainfall or sprinkler irrigation is required within a few days after application for best results.

**LETTUCE—Post-emergence**—Apply when the lettuce has at least 4 or more leaves. Uniformly apply 9 to 12 quarts of CHEM HOE 2EC in 40 gallons or more of water per acre. Apply as directed shielded spray. Irrigate following application to move the chemical into the soil and root zone of the weed plants.

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**SPINACH—Post-emergence**—Uniformly apply 9 quarts of CHEM HOE 2EC in 20 to 40 gallons of water per acre. Apply when spinach is in 2-4 leaf stage to control germinating annual weeds. At least 1 inch of rainfall or sprinkler irrigation should follow application within a few days for successful results.

**STRAWBERRIES—Dormant Only**—One continuous week with nights below freezing will usually force dormancy. Do not apply later than 6 weeks before strawberry plants resume growth in Spring. Do not use on everblooming varieties. Apply 7½ to 12 quarts of CHEM

HOE 2EC in 50 to 100 gallons of water per acre. Till into soil prior to germination of weeds and grasses. Use lower rate on light soils.

**SUGAR BEETS, PEAS (Green or Dry) and LENTILS—Pre-plant**—Apply for Control of Wild Oats and volunteer grain. Before planting apply 8 quarts of CHEM HOE 2EC in 10 to 20 gallons of water per acre broadcast. Best results are obtained by lightly working and leveling the soil to smooth the surface just before application. The CHEM HOE 2EC water mixture is then sprayed directly onto the soil surface and immediately cross disked to a depth of at least 4 inches. Seed may be planted the same day following the CHEM HOE 2EC treatment, but no later than 1 or 2 days after treatment for best results.

The application should be uniform, avoiding overlaps and untreated areas. To reduce spray drift, avoid spraying on windy days and keep spray pressure below 50 pounds.

**SUGAR BEETS—Post-emergence**—In well rooted sugar beets, apply 9 to 12 quarts of CHEM HOE 2EC mixed with 40 gallons or more of water per acre. Application should be made as a directed shielded spray. Irrigation should follow application to move the chemical into the soil and root zone of the weed plants.

**ESTABLISHED GRASSES GROWN FOR SEED**—(For application in Washington)—For control of annual grasses apply 6 to 8 quarts of CHEM HOE 2EC in 20 gallons or more of water per acre. Apply only between September 15 and October 15. Straw and plant residues should be removed by burning before application is made. Best results are obtained when annual grasses are in the one-leaf stage, and rainfall or irrigation follows application.

**ESTABLISHED PERENNIAL GRASS—Limited to Oregon—West of Cascade Mountains**—For the control of annual weeds and grasses. Straw and plant residues should be removed by burning before application is made. Reduce application rate in low spots where surface water may cause accumulation of the chemical with resulting crop injury. Where possible, avoid application of CHEM HOE 2EC early on warm windy days. Evaporation losses will be reduced by making treatments during quiet, cool days, and as late in the day as is practical. Use in other areas may result in crop injury due to varying weather conditions.

Crop	Rate of CHEM HOE 2EC Per Acre	Time of Application
Perennial Ryegrass	6 quarts*	October after fall rains have started. Do not spray after October 31.
Kentucky Bluegrass Tall Fescue Orchardgrass	6 quarts*	October after fall rains have started. Do not spray after October 31.
Creeping Fescue Chewing Fescue	6 quarts*	Spray only during period from October 1 to October 20 after fall rains have started.
Highland Bentgrass Astoria Bentgrass	8 quarts*	Spray in October after fall rains have started. Do not spray after October 31.

\*Mix in 20 gallons or more of water.

Caution: Use only on established fields which have been harvested at least once.

## CONTAINER STORAGE AND HANDLING

Avoid contamination of foodstuffs, feeds, fertilizers, seeds, plants, and pesticides. Do not reuse container. Store in a dry location. Destroy by burying in a safe place. Do not burn.

## CONDITIONS OF SALE

The seller, **AMERICAN CHEMICAL CORPORATION**, warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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