



# Products for Railroads and Industry

NET CONTENTS  
GALLONS

## HABCO LO-VOL 4T

### CAUTION

KEEP OUT OF REACH  
OF  
CHILDREN

See Other Cautions On This Label

#### READ ENTIRE LABEL BEFORE USING THIS PRODUCT GENERAL INFORMATION

HABCO LO-VOL 4T is a selective herbicide recommended for the control of brush and woody plants. Its principal use is on rangeland clearance, power lines, rights-of-way, stump land and certain waste areas where it is desired to kill or repress growth of woody plants. This product is not recommended for weed control in growing crops. DO NOT use on ditch banks, lakes or ponds. DO NOT use around the home, recreation areas or similar sites.

HABCO LO-VOL 4T is an emulsifiable formulation which forms an emulsion in water and will readily mix with water-free diesel oil, fuel oil or kerosene. The following plants are included among those susceptible to HABCO LO-VOL 4T:

Alder	Elm	Poison ivy
Ash	Greenbrier	Palmetto
Aspen	Gum	Salmonberry
Birch	Honeysuckle	Sumac
Boxelder	Locust	Wild cherry
Brambles	Maple	Wild grape
Buckbrush	Oak	Willow
Elderberry	Osageorange	

NOTE: Local conditions and application regulations vary and may affect use of this herbicide. Consult local agricultural experiment station or extension service weed specialists and state regulatory agencies for recommendations in your area.

Aerial application may be of use for control of brush and woody plants where there would be no danger of drift to susceptible crops. Applications should only be made by applicators experienced in the use of 2,4,5-T formulations. Regulations governing aerial application of herbicides are in effect in many states. Consult local regulatory agencies concerning requirements before making applications.

TREATING SMALL AREAS: One tablespoonful of HABCO LO-VOL 4T in 1 1/2 gallons of water is about equal to 1 quart in 100 gallons.

When stored at temperatures below freezing, it may be necessary to warm contents to 45 degrees F. and mix thoroughly before using.

#### DIRECTIONS FOR USE

PREPARATION OF SPRAY: Fill the spray tank with half the required amount of water or water-free diesel oil, fuel oil or kerosene; then add the recommended amount of HABCO LO-VOL 4T and continue filling the spray tank with balance of water or petroleum oil. Keep agitator run-

ning when filling spray tank and during spray operations. In straight oil mixtures do not let water get into the HABCO LO-VOL 4T itself or into the diluted product.

FOLIAGE TREATMENT: Foliage or leaf stem sprays are used during the growing season on dense brush or where vine growth and other woody vines are a problem. Apply HABCO LO-VOL 4T after foliage is well developed, using a drenching spray containing 3 to 4 quarts in 100 gallons of water. Coverage should be complete, wetting all parts of the plants, including leaves and stems, to point of run-off. Higher volumes are necessary where the brush is very dense and over 6 to 8 feet high. Applications are more effective when applied to actively-growing plants. DO NOT treat during periods of severe drought or in early fall when leaves have lost their healthy green color. Hard-to-kill species may need retreatment the following season.

BASAL BARK TREATMENT: This treatment is not adapted for spraying dense stands of brush and woody vines. It can be used any time of the year to obtain better kill of some species where dense brush and woody vines do not prevent proper application. Apply HABCO LO-VOL 4T at the rate of 4 quarts in 25 gallons (1 pint in 3 gallons) of fuel oil, diesel oil or kerosene. Treat the basal parts of stems or tree trunks (less than 6 inches in diameter) from ground line to a height of 12 to 16 inches, thoroughly wetting to run-off. Often a delayed response to treatment can be expected. Treated brush or trees preferably should not be cut for one year following treatment.

STUMP TREATMENT: To prevent regrowth from cut stems and stubs, apply a solution of 4 quarts of HABCO LO-VOL 4T in 25 gallons of water-free diesel oil, fuel oil or kerosene (1 pint in 3 gallons). Wet thoroughly the cut surfaces of the stump, concentrating the spray on the outside edges, sides of the stump and exposed roots until run-off to ground line is noticed. Best results are usually obtained when applied to freshly cut stumps 2 inches in diameter or larger.

FRILL TREATMENT: For trees 6 inches in diameter or larger, use the frill or notch treatment. Cut a single back-girdle of overlapping axe cuts completely around the tree near the ground line. Treat the injured area with a solution of 2 quarts of HABCO LO-VOL 4T in 25 gallons of diesel oil, fuel oil or kerosene (1/2 pint in 3 gallons).

MESQUITE CONTROL: For airplane application, use 1 to 1 1/2 pints of HABCO LO-VOL 4T per acre in 3 gallons of water and 1 gallon of water-free diesel oil. Apply 45 to 95 days after mesquite first begins to leaf out. DO NOT treat if drought prevents heavy foliage growth.

#### CAUTION

Harmful if swallowed.

May cause skin irritation.

Avoid contact with eyes, skin and clothing. If contact with eyes occurs, flush with plenty of water.

DO NOT store near fertilizers, seeds, insecticides or fungicides.

DO NOT use around home or recreation areas.

DO NOT contaminate irrigation ditches or water used for domestic purposes.

Be care to avoid spray drift to 2,4,5-T susceptible plants such as cotton, tomatoes, flowers, grapes, fruit trees and ornamentals. Trace amounts of spray drift may cause severe injury to both growing and dormant plants. Coarse sprays are less likely to drift. Spray only on calm days using low pressure and lowered boom. Although this ester is much less volatile than butyl or isopropyl ester, high temperatures may produce vapors after application which might injure 2,4,5-T sensitive plants in the vicinity.

Flush sprayer out on suitable non-crop area after use. DO NOT use the same spray equipment for applying other materials to plants as injury will result.

DO NOT reuse empty container. Return to drum reconditioner, or destroy by perforating, crushing and burying or discarding in a safe place.

DO NOT graze dairy animals on treated areas within 6 weeks after application. DO NOT graze meat animals on treated areas within two weeks of slaughter.

This product is toxic to fish. Keep out of lakes, streams and ponds. DO NOT contaminate water by cleaning of equipment or disposal of wastes. Apply only as directed on this label.

#### WARRANTY AND LIMITATION OF DAMAGES

SELLER warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and BUYER assumes the risk of any use contrary to such directions. SELLER makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of SELLER is authorized to do so except in writing with a specific reference to this warranty. In no event shall SELLER's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

*May 24, 1973*

*8823-51*

### HABCO LO-VOL 4T

Contains 4.0 Pounds of 2,4,5-T Acid Equivalent per Gallon

#### ACTIVE INGREDIENT:

Isooctyl Ester of 2,4,5-Trichlorophenoxyacetic Acid\* 64.0%

INERT INGREDIENTS: 36.0%

TOTAL 100.0%

\*Equivalent to 2,4,5 Trichlorophenoxyacetic Acid 44.5%

EPA Reg. No. 8823-51

\* HABCO is the exclusive trade mark property of HABCO, Inc.

Manufactured for HABCO, INC. Minneapolis, Minnesota - Birmingham, Alabama - Kansas City, Missouri



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ACCEPTED

*May 1973*  
UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND FUNGICIDE ACT  
FOR ECONOMIC PESTION REGISTER-  
ED UNDER NO. 8823-52

**READ ENTIRE LABEL BEFORE USING THIS PRODUCT**  
**GENERAL INFORMATION**

HABCO MSMA 6 is a postemergence herbicide for use in cotton, turf, fruit, nuts and non-crop areas. HABCO MSMA 6 contains a surfactant (wetting agent) in proper ratio for best results. It is not necessary to add additional surfactant to the spray tank. Local conditions and recommendations vary; consult agricultural experiment station or extension service weed specialists for recommendations in your area.

A partial list of weeds controlled with HABCO MSMA 6 includes:

- |                 |              |              |
|-----------------|--------------|--------------|
| Barnyardgrass   | Crabgrass    | Nutsedge     |
| Brachiaria spp. | Dallisgrass  | Pigweed      |
| Chickweed       | Goosegrass   | Puncturevine |
| Cocklebur       | Johnsongrass | Sandbur      |

**MIXING INSTRUCTIONS:** Fill the spray tank with half the required amount of water and, with pump or agitator operating, add the recommended amount of HABCO MSMA 6 herbicide and continue filling the tank with the balance of water and mix thoroughly.

If preferred, HABCO MSMA 6 herbicide can be pre-mixed by adding the required amount of HABCO MSMA 6 in 3 to 5 gallons of water in a clean, open-head bucket. This pre-mix should then be poured in the partially-filled spray tank and the tank filled with the balance of water. Mix thoroughly before using.

**DO NOT** store spray solution in tank overnight. Clean application equipment thoroughly after use by flushing with water in a safe place.

**APPLICATION METHODS:** HABCO MSMA 6 should be applied with a low-pressure, properly calibrated sprayer having satisfactory pumping and bypass action. **ADJUST NOZZLES TO KEEP SPRAY OFF COTTON FOLIAGE AND IN A MANNER TO ALLOW MAXIMUM COVERAGE OF WEEDS.** Adequate coverage is very important for effective weed control.

Apply during warm weather and when weeds are in an active stage of growth.

**DIRECTIONS FOR USE**

**COTTON:** HABCO MSMA 6 is useful as a directed postemergence spray for controlling the weeds listed above. Mix HABCO MSMA 6 at the rate of 2- 2/3 pints in 40 gallons of water for application as a DIRECTED broadcast spray to one acre when weeds are small. For band applications, apply 1 gallon of above diluted spray per acre for each 1-inch band width to be treated of cotton grown on 40-inch row spacing.

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See Other Cautions On This Label

**HABCO MSMA 6**

MSMA plus Surfactant  
For Postemergence Weed Control

**ACTIVE INGREDIENT:**

Monosodium Acid Methanearsonate . . . . . 48.35%

**INERT INGREDIENTS:** . . . . . 51.65%

**TOTAL** . . . . . 100.00%

Total Arsenic, all in water-soluble form,  
expressed as elemental . . . 22.38%  
Product contains 6.0 pounds MSMA per gallon

EPA Reg. No. 8823-52

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