

85.02.22

Hopkins

SODIUM TCA

WEED KILLER SOLUTION

Contains 718 Grams of Dry 90% Sodium TCA or 645 Grams of Sodium Trichloroacetate Per Litre Equivalent to 568 Grams Trichloroacetic Acid Per Litre.

Herbicide

Commercial

See Precautionary Statement and First aid on Side Panel

READ THE LABEL BEFORE USING

GUARANTEE:

TCA ACID equivalent (present as Sodium Salt)....41.5%

REGISTRATION NO. 16043
PEST CONTROL PRODUCTS ACT

Net 20 litres

MANUFACTURED BY
Hopkins
agricultural chemical co.
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U.S.A.

GENERAL INFORMATION: HOPKINS SODIUM TCA SOLUTION may be used on non-crop areas such as along drainage ditch banks, headlands, rights-of-way, fence rows, and roadsides; and industrial areas, oil tank forms, substation, parking lots and airfields. At lower rates it may be used to suppress, rather than kill certain grasses in these areas where permanent cover is needed.

It may also be used to control certain grasses in crop lands, by spot treatment in growing crops where localized injury to the crop can be permitted or by general treatment during the off-crop season. HOPKINS SODIUM TCA SOLUTION can also be used selectively to control seedling grasses in certain tolerant field and garden crops. HOPKINS SODIUM TCA SOLUTION is usually applied as a water spray. Although it may be applied either to foliage or to the ground, it act mostly through the underground parts of plants. Application immediately after ploughing or cultivating helps in controlling established perennial grasses. It is best to cut and remove tall grass before spraying.

DIRECTIONS FOR USE: The effect on grasses treated with HOPKINS SODIUM TCA SOLUTION varies with dosage, soil, weather, moisture, and seasonal conditions. A light rain soon after application is necessary for best results.

Dilute the recommended rates per hectare with sufficient water (between 800 and 2000 litres per hectare depending upon type of equipment and height of grasses) to enable thorough wetting of the foliage and crowns of the treated grasses. A single application may be sufficient for less resistant grasses. Repeat applications should not be made until the full effects of the first application have been determined, which may be after the lapse of a few weeks or possibly months. For maximum control, avoid cutting or burning treated plants. For most resistant grasses, Spring and Fall treatments should be made until adequate control has been obtained.

Treatments with compounds of TCA are generally prescribed on the basis of the kilograms of equivalent trichloroacetic acid per hectare. Note that Sodium TCA Liquid Concentrate contains the equivalent of 0.57 kilograms of trichloroacetic acid per litre.

FOR CERTAIN GRASS WEEDS IN CROP LANDS

BARLEY AND OATS: For the control of annual grasses, particularly foxtail, use HOPKINS SODIUM TCA SOLUTION at a rate of 2 L in 100 litres of water per hectare in barley, and 2 - 3.75 L/ in 100 litres of water per hectare in oats. Apply when the grasses have 1 to 3 leaves and the cereals have 2 to 4 leaves. Use the lower rate on light sandy soils. Delay in maturity may occur, but this will not affect yields. MCPA ESTER may be used with HOPKINS SODIUM TCA SOLUTION for broadleaf weed control. Do not apply on barley and oats seeded less than 5 to 8 cm deep.

FLAX AND RAPE: For the control of annual grasses use 5.5 to 9 litres HOPKINS SODIUM TCA SOLUTION per hectare in 100 to 150 litres of water. Apply when grasses are in the seedling stage before foxtail has four true leaves. Rape should be in the 2 to 4 leaf stage. flax should be 10 to 15 cm high when treated and MCPA Ester may be combined to control broadleaf weeds. Do not apply MCPA Ester to rape.

SUGAR BEETS: For certain spring annual grasses such as Green and Yellow Foxtail, use 11 to 15 litres per hectare in 100 to 120 litres of water before the sugar beets emerge for annual grass control. Use 5.5 to 11 Litres per hectare as a post-emergence application, treating before the grass is 5 cm tall and before sugar beets have four leaves.

CAUTION: DO NOT use tops for food or animal feed purposes.

RED BEETS: Use 9 to 17 litres HOPKINS SODIUM TCA SOLUTION per hectare for annual grass control applied before the beets emerge.

NOTE -- BEETS (SUGAR & RED): PRE-EMERGENCE: Apply as a surface spray. Do not incorporate.

PEAS (Not Canning Peas): For annual grass seedlings use 5.5 to 9 litres per hectare of HOPKINS SODIUM TCA SOLUTION. Spray when vines are 10 to 20 cm in length and when Green Foxtail is in 1 to 3 leaf stage.

CABBAGE, CAULIFLOWER AND GLADIOLUS: Use 5.5 To 15 l per hectare. Apply as a pre-emergence or directed post emergence spray. This will control germination and very young grass seedlings.

TOMATOES (Direct Seeded): For annual grass seedlings use 5.5 L to 9 L HOPKINS SODIUM TCA SOLUTION per hectare as a pre-emergence application 2 days before emergence.

FOR CERTAIN GRASS WEEDS NOT IN CROP LANDS

QUACK GRASS: Use 100 to 200 litres per hectare for undisturbed grasses. Use 50 to 100 litres per hectare when cultivation precedes treatment. follow up with cultivation or additional TCA application as necessary.

GRASS SUPPRESSION: Use 11 to 25 L per hectare. When applied shortly before heading, this treatment has been effective on Northern grasses such as Blue grass and Quack Grass. Additional

treatments should be made as necessary. Do not use on lawns.

Seedling Grasses: Use 11 to 25 litres per hectare on young grass seedling to prevent new seedling emergence for a period of time when desired.

Spot Treatment: Use 150 mL for each 10 square metres to be treated (150L/ha) Mix 1 Litre in 8 litres of water and spray. Wet thoroughly all foliage and exposed roots.

Note: DO NOT USE more than 200 litres of this material per hectare.

DO NOT ALLOW animals to graze on treated areas for at least 24 hours after treatment.

CONIFERS

AREAS TO BE SURFACED: To prevent the emergence of plants through new pavement, use HOPKINS SODIUM TCA SOLUTION should be applied to the base-material just prior to application of the prime coat. The spray pattern should overlap any existing pavement approximately 15 cm and extend only as far as paving will be applied. Surface should not be broomed or disturbed after application.

PRECAUTIONS: To avoid Plant Injury:

- (1) Do not permit spray or spray drift to contact valuable plants or shrubs.
- (2) Do not apply HOPKINS SODIUM TCA SOLUTION on or near useful plants or to land in crops except as directed above or in accordance with specific local recommendations.
- (3) Do not use it on lawns or similar closely mowed turf.
- (4) Do not let HOPKINS SODIUM TCA SOLUTION get into irrigation water. Sodium Trichloroacetate in the soil may inhibit seed germination and plant growth for 60 days or more: the length of time will depend on soil type, soil moisture content and especially on the amount of rain. Do not re-use containers for storage or transportation of any products used for agricultural purposes. Keep container tightly closed. Do not allow animals to graze treated areas for at least 24 hours after treatment. To minimize corrosion of equipment do not flush out with water after each use because this product contains rust inhibitor. However, prior to long-term storage of equipment, flushing with plenty of

water is suggested.

Local conditions may affect the use of herbicides.

Provincial agricultural authorities issue recommendations to fit local conditions.

CAUTION

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. MAY CAUSE BURNS. IRRITATING TO SKIN AND EYES.

Do not get in eyes, on skin, or on clothing or shoes. Do not breathe spray mist.

STORE IN A COOL PLACE. DESTROY CONTAINER WHEN EMPTY. KEEP FROM FREEZING.

Destroy container so that it may not be used again for any purpose and dispose of it at some location where no attempt to salvage will be made. DO NOT BURN.

TOXICOLOGICAL INFORMATION If taken internally, administer by mouth a neutralizer and diluent such as magnesium oxide, lime water, amphogel or soap solution. Opiate for control of pain. Keep the patient warm.

FIRST AID: In case of contact, promptly flush skin or eyes with plenty of water for at least 15 minutes. For eyes, get medical attention. If swallowed, INDUCE VOMITING. Get medical attention.

Remove contaminated clothing and wash before re-use.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

NOTICE: Keep Container Upright. Cap on this container is self-venting. During handling some liquid may seep through the vented cap and discolor the top of the container.

WARNING!

Contents generate pressure which increases with temperature. Storage temperature should not exceed 30°C. and must not exceed 38°C.

Strain Before Use

This product may contain some precipitated solids which in no way affect the quality of the TCA liquid. For best results, it is suggested that users strain the TCA liquid as it is added to the sprayer.

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