

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PM 23 48273-4

1026

AUG 22 1995

Mr. Robert T. Renes
 Marman USA, Inc.
 5041 W. Cypress St.
 Tampa, FL 33607

Dear Mr. Renes:

**SUBJECT: Label Amendment To Allow Re-filling of Mini-Bulk and 55
 Gallon Drum Containers.
 Amine 4D
 EPA Registration No. 48273-4
 Your Resubmission Dated August 3, 1995**

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable, provided you make the following changes:

1. Revise the "Engineering Controls Statements" section to read as follows:

"Mechanical Transfer for Containers of 5 or More Gallons: A mechanical system (probe and pump) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

When handlers use enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS."

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CONCURRENCES

SYMBOL ▶	7505c						
SURNAME ▶	S. Stanton						
DATE ▶	Aug 21, 1995						

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2. In the "Personal Protective Equipment (PPE) section, add the following statement directly below the other PPE requirements:

"For Containers over 1 Gallon but less than 5 Gallons: Mixers and loaders who do not use a mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE."

3. Correct the Pre-emergence application rate in the directions for use on corn. The 2 to 4 pints per acre rate is correct; however, the rate per 1,000 sq. ft. should be "1 1/2 - 3 Tbls.", not "1-1/8 tsp."

4. Correct the spelling of the words "detail" in the Spanish language warning; "intertidal" in the statement prohibiting application to water; and "any" in the last line of the first paragraph under Directions for Use.

A stamped copy is enclosed for your records. Submit one copy of your final printed labeling before you release the product for shipment.

Sincerely yours,

Susan L. Stanton

for

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

Enclosure

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

AMINE 4D

WEED KILLER SELECTIVE BROADLEAF WEED CONTROL 48273-4

ACTIVE INGREDIENT:

Dimethylamine salt of 2,4-D-Dichlorophenoxyacetic acid..... 46.3 %

INERT INGREDIENTS.....53.7 %

TOTAL.....100.0 %

2,4-Dichlorophenoxyacetic Acid Equivalent 38.4% - 3.8lbs/gal isomer Specific by AOAC Method No. 6D01-5

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

Si usted no entiende la etiqueta, busque alguien para que se la explique en detalles. (If you do not understand this label, find someone to explain it to you in details)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage. May be fatal if absorbed through skin. Harmful if swallowed or inhaled.
Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers, including persons repairing or cleaning equipment, must wear : * Coveralls over short sleeved shirts and short pants Waterproof gloves Chemical resistant footwear and socks * Protective eye wear such as face shields or safety glasses (brow and temple protection recommended) * Chemical resistant headgear for overhead exposure * A chemical resistant apron should also be worn when cleaning equipment, mixing or loading.
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 and maintaining PPE. If no other instructions for washing, use detergent and hot water. Keep and wash all PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirement listed in the Workers Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240) (d) (4-6), the handler's PPE may be reduced or modified as specified in the WPS.

For containers over 1 gallon but less than 5 gallons, persons engaged in open pouring of this product must wear coveralls and a chemical resistant apron. For containers over 5 gallons or more, a mechanical transfer system (probe and pump) must be used for transferring the content of the container. If the content of a non-refillable pesticide container are emptied, the probe must be rinsed before removal.

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

Vapors, spray drift or runoff may adversely affect non target plants. This product may injure cotton, beans, peas, grapes, ornamentals etc. (Coarse sprays are less likely to drift) For terrestrial use, do not apply directly to water, to areas where surface water is present or to internal areas below the mean high water mark. Do not contaminate water when disposing of equipment wastewater. MIXING AND LOADING: Most cases of groundwater contamination involving phenoxy herbicides such as 2,4D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA REG. No. 48273-4

EPA Est. No. 57242-FL-1

MARMAN USA, INC.

5041 W. Cypress St. Tampa, Florida 33607

NET CONTENT: 1 GALLON 2.5 GALLONS 5 GALLONS 55 GALLONS

Handwritten initials or mark in the top right corner.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
IF SWALLOWED: Call a doctor or get medical attention. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.
IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
STORAGE: Store product in cool and dry locked place out of reach of children. Store at temperatures above 32 degrees F.
PESTICIDE DISPOSAL: Pesticide waste are toxic. Improper disposal of excess pesticide, spray mixture, or rinse water is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative of the nearest EPA regional office for guidance.
CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by the approved state & local procedures.
MINI-BULK AND /OR 55 GALLON DRUM CONTAINER PRECAUTION- Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions and damage or worn thread on closures devices. **REFILL ONLY WITH AMINE 4D SOLUTION.** The contents of this container cannot be completely removed by cleaning. Refilling with materials other than AMINE 4D herbicide will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. **CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.**

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read all directions for use carefully before applying. 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 requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system.

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, forest, 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 statement 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.
Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.
PPE required for early entry to treated areas that is permitted under the Workers Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls over short sleeve shirt and short pants. * Waterproof gloves. * Chemical resistant footwear plus socks. * Protective eyewear. * Chemical resistant headgear for overhead exposure.

NON - AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to use of this product that are not within the scope of the Workers Protection Standard for agricultural pesticides (CFR 40 part 170). The WPS applies when this product is used to produce plants on farms, nurseries, or greenhouses. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treated areas until spray has dried.

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GENERAL INFORMATION

This product is recommended for numerous broadleaf weeds and certain 2,4-D susceptible woody plants without injury to most established grasses. A partial list of weeds controlled: Beggarticks, Bitterweed, Blueweed Texas, Broomweed, Cornflower, Croton, Dandelion, Docks, Dogfennel, Fanweed, Galinsoga, Garlic Weed, Goatsbeard, Halogeton, Hemp Wild, Jewelweed, Jimsonweed, Kochia, Lambsquarter, Mallow Venice, Marshelder, Millevetch, Morningglory, Annual, Mustards, Nettles, Onion wild, Redstem, Salsify, Sheperdspurse, Sickelpod, Smartweed, Smartweed Bitter, Sowthistle Annual, Spanishneedles, Sunflower, Sweetclover, Taasymustard, Tansyrwort, Thistle Ball, Thistle Musk, Thistle Russia, Velvetleaf, Vervaba, Vetch, Water Plantain, Witchweed, Wormwood, Yellow Rocket, Yellow Starthistle.

HOW TO MIX

Fill the spray tank half full, then add the required amount of this product and continue filling the tank with the balance of water. Keep agitator running when filling the tank and during spray operations. Apply this product as a water spray during warm weather when weeds or brush are actively growing. Treatment during drought periods often will give poor results. Use low spray pressure to minimize spray drift. On croplands and along roadsides, do not exceed 20 psi pressure.

Apply enough spray volume to provide uniform coverage of weeds and brush, usually 5 to 20 gallons water per acre by ground equipment and 1 to 5 gallons water by aircraft. Higher gallonage may be used if desired to improve spray coverage. The lower dosage recommended on this label will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species and under conditions where control is more difficult, the higher rate will be needed. Do not mix with oil, Atrazine, Surfactant or other Adjuvants unless specifically recommended on this label. Deep rooted perennial weeds such as Canada Thistle and Field Bindweed and many woody plants usually require repeated applications for best control. Do not use in greenhouses. Do not use the same equipment for applying other materials to 2,4-D susceptible crops as injury may result.

USE PRECAUTIONS

Do not apply this product or otherwise permit it to come into contact with cotton, grapes, fruit trees, vegetables, flowers or other desirable crop or ornamental plants which are sensitive to 2,4-D. Do not permit spray mist containing it to drift onto them, since even a very small quantity of spray, which may not be visible, can cause severe injury during growing and dormant periods. Use coarse sprays to minimize drift. With ground equipment, spray drift can be lessened by keeping the spray booms low as possible; by applying 20 gallons or more of spray per acre; by using no more than 20 psi with flat fan or flooding flat fan nozzle tips; by not spraying when winds exceed 6 to 7 miles per hour. Do not apply with hollow cone insecticide type nozzle or other nozzles that product a fine droplet spray.

With aircraft application, drift can be lessened by applying not less than 5 gallons of spray per acre; using no more than 20 psi at the nozzles; by using nozzles that produce a coarse spray pattern; and by spraying only when the wind velocity is less than 5 mph. Aircraft application should only be made by applicators experienced in the use of 2,4-D formulations. Consult your local regulatory agency concerning requirements before making applications.

NOTE: When stored at temperatures below freezing, it may be necessary to warm content to not less than 45 degrees F and mix thoroughly before using.

SMALL GRAIN

wheat, Barley, Oats, Rye

Post-emergence (BARLEY, WHEAT, RYE): Not underseeded with a legume crop for annual weeds use 1-1/3 pints per acre. For perennial weeds use 2 pints per acre. For general weed control use 2 pints per acre. Spray when grain is in full tiller stage (usually 4 to 8 inches tall) and weeds are small. Do not apply before tiller stage nor from early boot up to the milk stage.

For post-emergence weed control on OATS use 1/2 to 1 pint per acre. For pre harvest treatment when grain is in the soft to hard dough stage, spraying can be done to control large weeds threaten to harvest operation. Do not graze or feed treated forage from treated fields within 2 weeks after treatment. Do not use treated straw for livestock feed.

SORGHUM (MILO)

Apply 2/3 pint per acre when plants are 6 to 15 inches tall. A higher rate of 2/3 to 1 pint per acre may be needed for some weeds but the chance of crop injury is likewise increased. Do not use with oil. Do not treat before plants are 5 inches tall nor during boot, flowering or early dough stages. If plants are taller than 8 inches, use drop nozzle to keep spray off the foliage as much as possible. Temporary crop injury may occur under conditions of high soil moisture and high air temperatures. If it is necessary to treat crop at this time, use 2/3 pint per acre. Varieties vary in tolerance to 2,4-D and some sensitive varieties should not be sprayed. Consult with your Extension Service personnel or University Specialist for this information.

RICE

Use 1 to 2-1/2 pints per acre in 5 to 10 gallons of water per acre, 7 to 10 weeks after planting or when rice is fully tillered but not yet in "boot" stage. Do not apply after panicle initiation, after rice internodes exceed 1-1/2 inch at early seeding, early panicle, boot, flowering, or early heading growth stages.

NOTE: Some rice varieties can be injured by 2,4-D under certain conditions; therefore consult your local Extension Service personnel or a University specialist for rates and timing of sprays.

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CORN

Pre-emergence: apply 2 to 4 pints per acre (1-1/8 tsp. per 1,000 sq.ft.) to soil anytime after planting but before corn emerges. Do not use on light sandy soils.

Post-emergence: after emergence of corn plants use 1/2 pint per acre (1-1/8 tsp. per 1,000 sq.ft.) . Applications of 1/2 to 1 pint per acre (1-1/8 to 2-1/4 tsp. per 1,000 sq.ft.) may be needed for maximum control of some weeds but such rates are more likely to injury corn. If corn is over 8 inches tall, use drop nozzle to keep spray off the corn foliage as much as possible. Do not apply from the tasseling to the dough stage. Do not use with oil, atrazine or other ajuvants. Crop injury is more likely to occur if corn is growing rapidly under high temperatures and high moisture soil conditions. To reduce breakage of stalk from temporary brittleness caused by 2,4-D, delay cultivation for 8 to 10 days after treatment. NOTE: Hybrids vary in response to 2,4-D and some are easily injured. Spray only varieties known to be tolerant to 2,4-D. Contact the seed company or the Agricultural Experimental Station weed specialist for this information.

SUGAR CANE

Apply as a pre-emergence application before cane appears or as a post-emergence spray in the spring after the canes emerge and then through the lay by stage in accordance to State recommendations. Use 2 to 4 pints in sufficient water to treat 1 acre.

GRASS SEED CROPS

Use 1 to 2 pints per acre (2-1/4 to 4-1/2 tsp. Per 1,000 sq.ft) in sufficient water to give uniform coverage by air or ground application. Apply to established stands in the spring from the tiller to the early boot stage. Do not spray in boot stage. New spring seedlings may be treated with the lower rate after grasses have at least 5 leaves. Perennial weeds re-growth may be treated in the fall at the higher rate.

PASTURE AND RANGELAND

The maximum application rate to pasture and rangeland is 2 pound per acre of 2,4-D acid equivalent per acre per application site. NOTE: observe the following: a 7 day pre-grazing interval for dairy cattle; a 30 day pre-harvest interval for grass cut for hay; and a pre-slaughter interval for meat animals of 3 days. Do not use on bent grasses, alfalfa, clover or other legumes or on newly seeded pastures. Do not apply after heading begins or when the grass is in the boot to milk stage where grass seed production is desired.

For Bitterweed, Broomweed, Docks, Kochia, Marshelder, and other broadleaf weeds, use 3 to 4 pints per acre (6-1/2 to 9 tsp per 1,000 sq.ft.) to control most species; if weeds are young and actively growing, 2 to 3 pints per acre (4-1/2 to 6-1/2 tsp. per 1,000 sq.ft.) may control same species. Deep rooted perennials may require repeated treatments " fall-spring-fall" or " spring-fall-spring". In newly sprigged Coastal Bermudagrass apply 2 to 3 pints per acre (4-1/2 to 6-1/2 tsp. per 1,000 sq.ft.) either pre-emergence or post-emergence treatment.

LAWN, GOLF COURSES, PARKS, CEMETERIES, AND SIMILAR ORNAMENTAL TURF

Apply 3 pints per acre (6-1/2 tsp. per 1,000 sq.ft.) in sufficient water to give good coverage (usually between 3 to 5 gallons of water per 1,000 sq.ft.) Increase this to 4 pints per acre (3 tbs per 1,000 sq.ft.) if hard to kill weeds (Spurge) are present. Do not apply to newly seeded lawns until grasses become well established. Injury may result if applied to Bentgrass, St. Augustinegrass, Carpetgrass, Centipedegrass, Dichondra, and clover. After weeds have died remove all dead vegetation. Prepare the seed bed by additional 1/2 top soil, peat moss or other soil amendments. Work into the topsoil. Wait 2 weeks then seed the area at 1 1/2 times the recommended seeding rate. Keep soil moist through the first cutting.

The maximum number of broadcast applications per treatment site is 2 per year.

FOR FENCES, DITCHBANKS, ROADSIDES, AND INDUSTRIAL SITES

Apply 2 to 3 pints per acre in 100 gallons of water and spray weeds to point of runoff. Treat as soon as spring as possible, since young actively growing weeds are easier to control.

SPOT TREATMENT OF WEEDS

Mix 2 to 3 table spoonfuls per gallon of water and apply to control broadleaf weeds in small non-cropland areas with a hand sprayer. Add a suitable, approved surfactant to spray mixture to insure better coverage of target weeds . Do not use the same sprayer for spraying insecticides, or fungicides.

NOTICE: Seller 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 warrant nor any other warrant 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.

IN CASE OF AN EMERGENCY CALL 24 HOURS A DAY: CHEMTREC 1-800-424-9300