

48273-22

10-08-2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mary Beth Endres  
Marman USA Nufarm Americas Inc.  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527

OCT 8 2009

Subject: EPA Reg. No. 48273-22 / Marman 2,4-D Technical Acid

Dear Ms. Endres:

The labeling referred to above is acceptable and the revised basic CSF dated 8-7-09 is acceptable.

A stamped copy of the label is enclosed for your records. This label supersedes all previously accepted labels. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov

Sincerely,

Joanne Miller  
Product Manager 23  
Herbicide Branch  
Registration Division (7505P)

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# MARMAN 2,4-D TECHNICAL ACID

For Formulation of Herbicides Only

**ACTIVE INGREDIENT:**

2,4-Dichlorophenoxyacetic Acid\* ..... 98.2%

**OTHER INGREDIENTS:** ..... 1.8%

**TOTAL:** ..... 100.0%

\*Isomer Specific by AOAC Method 6D 01-5

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

SEE BELOW FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840

**ACCEPTED**

OCT 8 2009

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

48273-22

EPA REG. NO. 48273-22  
EPA EST. NO.

NET WEIGHT LBS ( KG)

048273-00022.20090807.2,4-D RED

Manufactured For  
MARMAN USA (NUFARM AMERICAS INC)  
150 Harvester Drive  
Burr Ridge, IL 60527



**PRECAUTIONARY STATEMENT  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER**

Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin, if swallowed or if inhaled. Do not get in eyes, or on clothing. Avoid contact with skin. Avoid breathing dust. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

<b>FIRST AID</b>	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	
<b>NOTE TO PHYSICIAN</b>	
Probable mucosal damage may contraindicate the use of gastric lavage.	

**ENVIRONMENTAL HAZARDS**

This chemical is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Formulators using this product are responsible for obtaining EPA registration for their formulated product.

**Only for formulation into an herbicide for the following uses(s):**

(1) AGRICULTURAL CROPS (Corn, sorghum, rice, wheat, oats, barley, rye, grasses – annual grasses – perennial, sugarcane, soybeans); TERRESTRIAL NONFOOD CROPS (Ornamental trees, shrubs and vines, lawns, and turfgrass (excluding residential sites), uncultivated agricultural areas, uncultivated nonagricultural areas, general soil treatment, recreation areas, industrial sites, paved areas, outdoor areas); AQUATIC SITES (Agricultural irrigation water and ditches, agricultural drainage water and ditches, lakes, ponds and impounded water, streams, rivers and canals, swamps, marshes, wetlands, estuaries, tidal marshes, commercial and sport fish-bearing waters, industrial ponds); FORESTRY SITES

(Forest trees, plantings, forest tree nurseries); (2) Uses for which U.S. EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration; and (3) Uses for experimental purposes that are in compliance with the U.S. EPA requirements.

This product may be used to formulate products for specific uses(s) not listed on the MUP label if the formulator, user group, or grower has complied with U.S. EPA data submission requirements regarding the support of such uses(s).

This product can only be used to formulate pesticide products if the labeling contains the following information and/or revised use directions. All products manufactured for ornamental turf (excluding sod farms) uses after June 15, 1994, must contain the revised label language below. All other products (i.e., agricultural, industrial and aquatic), manufactured after October 23, 1993 must bear the revised label language below.

All products released for shipment on or after October 1, 2005 must bear revised labeling complying with the maximum application rates for general non-crop sites; tree, brush and woody plant control on rights-of-way; and forestry use patterns other than site preparation, if registered for such uses.

### **General Requirements for End-Use Product Labeling**

Containers over 1 gallon and less than 5 gallons in capacity must bear the following statement: Persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron.

Containers of 5 gallons or more in capacity must also bear the following statement: Do not open-pour product from this container. A mechanical system (such as probe and pump or spigot) 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.

### **Specific Requirements for End-Use Product Labeling**

#### **1. For Agricultural Uses**

- a) Personal Hygiene Statements: "Wash hands, face and arms with soap and water as soon as possible after mixing, loading or applying this product. Wash hands, face and arms with soap and water before eating, smoking or drinking. Wash hands and arms before using toilet. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry. Remove saturated clothing as soon as possible and shower."
- b) The maximum application rate to pasture and rangeland is the lower of: 1) existing application rate on currently registered label or 2) 1.5 pounds 2,4-D acid equivalent per acre per application per site.
- c) The maximum application rate to forestry site preparation is the lower of: 1) existing application rate on currently registered label or 2) four pounds 2,4-D acid equivalent per acre per application per site. The maximum application rate to all forestry sites is the lower of 1) existing application rate on currently registered label or 2) 4 pounds 2,4-D acid equivalent per acre per application site
- d) A reentry interval is required and should be in accordance with the Worker Protection Standards, 40 CFR Parts 156 and 170.

#### **2. For Industrial/Aquatic Uses**

- a) Personal Hygiene Statements: "Wash hands, face and arms with soap and water as soon as possible after mixing, loading or applying this product. Wash hands, face and arms with soap and water before eating, smoking or drinking. Wash hands and arms before using toilet. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry. Remove saturated clothing as soon as possible and shower."

- b) The maximum application rate to general non-crop sites is the lower of 1) existing application rate on currently registered label or 2) 2 pounds 2,4-D acid equivalent per acre per application site. The maximum non-crop application rate for tree, brush and woody plant control on rights-of-way is the lower of 1) existing application rate on currently registered label or 2) 4 pounds 2,4-D acid equivalent per acre per application site. The maximum seasonal application rate to non crop sites is 4 pounds 2,4-D acid equivalent per acre per application site

### 3. FOR ORNAMENTAL TURF USES

- a) Personal Hygiene Statements: 1) For All Granular Products: "After using this product, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water."; 2) For All Liquid Products: "After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower."
- b) The maximum application rate to turf is the lower of: 1) existing application rate on currently registered label or 2) two pounds 2,4-D acid equivalent per acre per application per site. The maximum number of broadcast applications per treatment site is 2 per year.
- c) The following reentry statement must be included:

Entry Restrictions outside the scope of WPS.

Liquids:

General Precautions and Restrictions:

- Do not enter or allow people (or pets) to enter the treated area until sprays have dried.
- 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.

Granules:

General Precautions and Restrictions:

- Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during application.
- Do not allow people or pets to enter the treated area until dusts have settled.

### STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

**PESTICIDE STORAGE:** Always use original container to store pesticides in a cool, dry secured warehouse or storage building. Do not store near seeds, fertilizers, insecticides or fungicides. Containers should be opened in well-ventilated areas. Keep container tightly sealed when not in use.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, clean up all spilled material. Place in closed labeled container. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate ground water. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Completely empty bag by shaking and tapping sides and bottom to loosen clinging material. Empty residue into formulating equipment. Then dispose of bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### LIMIT OF WARRANTY AND LIABILITY

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY

PARTICULARTRADE USAGE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, ANDMANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT. If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product and return it unopened to the Seller, and the purchase price will be refunded.

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