



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Mr. William M. Mahlburg
Manager, Regulatory Affairs, Americas
Nufarm USA, Inc.
500 Lower Lake Road
St. Joseph, MO 64504

JUN 20 2001

Dear Mr. Mahlburg:

Subject: 2,4-D Isooctyl Ester Technical Grade
EPA registration No. 61272-7
Application and Letter Dated January 12, 2001, Request
to Delete Unsupported Uses: Drainage Ditch Banks,
Lakes, Ponds, Other Aquatic Non-food Sites, Rice and
Sugarcane

The proposed subject amendments to the registration of
"2,4-D Isooctyl Ester Technical Grade" have been reviewed and
found acceptable under the Federal Insecticide, Fungicide and
Rodenticide Act, (FIFRA) as amended, provided that you:

1. Revise the listing of sites for which this pesticide
product may be formulated into end-use pesticide products
by specifying the soybean site as "soybean (preplant) and
specifying the other use sites listed on this labeling as
listed in Appendix A of the **Code of Federal Regulations**,
Volume 40: Part 158. For example, "Uncultivated
Agricultural Areas" should be listed as "Uncultivated
Agricultural Areas (nonfood producing) and "Uncultivated
Nonagricultural Areas" should be listed as "Uncultivated
Nonagricultural Areas (outdoor)".

2. Delete the section entitled "NOTICE" that follows the
listing of the use sites. This section does not connect
with the section "NOTICE" that occurs at the end of the
label.

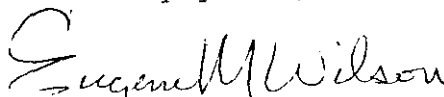
3. Submit one (1) copy of your final printed labeling prior
to your shipment of the subject pesticide product under the
enclosed stamped label.

If these conditions are not complied with, the registration
will be subject to cancellation in accordance with FIFRA, section
6(e). Your release for shipment of the product constitutes
acceptance of these conditions.

-2-

A stamped copy of the proposed label is enclosed for your records.

Sincerely yours,



for

Joanne I. Miller

Product Manager (23)

Herbicide Branch

Registration Division (7505C)

Enclosure



2,4-D Isooctyl Ester Technical Grade

FOR MANUFACTURE OF HERBICIDES ONLY

ACTIVE INGREDIENT:

Isooctyl (2-ethylhexyl) Ester of 2,4 -

Dichlorophenoxyacetic acid*..... 95.00%*

INERT INGREDIENTS: 5.00%

TOTAL: 100.00%

*Isomer specific AOAC Method, Equivalent to
2,4-Dichlorophenoxyacetic acid 63.0%, 6.0 lbs./gal.

KEEP OUT OF REACH OF CHILDREN WARNING

See Below For Additional Precautionary Statements

EPA REG. NO. 61272-7
EPA EST. NO. _____

NET CONTENTS ____ GALS. (____ L)

EXP01/01

For Chemical Emergency, Spill, Leak, Fire, Exposure or
Accident, Call CHEMTREC Day or Night 1-800-424-9300

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Induce vomiting immediately by giving two glasses
of water and sticking finger down throat. Never give anything by
mouth to an unconscious person. Get medical attention.

If in Eyes: Flush eyes with plenty of water for at least 15 minutes.
Get medical attention.

If on Skin: Wash exposed skin gently with plenty of soap and
water. Get medical attention if irritation occurs.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

Harmful if swallowed. Avoid inhalation of vapors and contact with
skin, eyes and clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to 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 Pollutant 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.

STORAGE AND DISPOSAL

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. Do not contaminate water, food or feed by storage or
disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. If container
is damaged or if pesticide has leaked, clean up all spilled material.
Place in a closed labeled container for proper disposal. 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: Triple rinse (or equivalent). Then
offer for recycling or reconditioning or puncture and dispose of in a
sanitary landfill, or by other procedures approved by State and local
authorities.

This pesticide may be used only for the formulation of a herbicide.
Formulators using this product are responsible for obtaining EPA
registrations for their formulated products.

Only for formulation into a herbicide for the following:

1. AGRICULTURAL CROPS: Corn, Sorghum, Wheat, Barley, Rye,
Oats, Grasses-annual, Grasses-perennial and Soybeans.

TERRESTRIAL NONFOOD CROPS: Ornamental trees, shrubs and vines; lawn and turf grasses; uncultivated agricultural areas; uncultivated nonagricultural areas; general soil treatment, recreation areas; industrial sites; paved areas and outdoor areas.

FORESTRY SITES: Forest trees, plantings and 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.*

3. Uses for experimental purposes that are in compliance with U.S. EPA requirements.*

*NOTICE: Nufarm USA makes no warranties, guarantees, or representations of any kind, either express or implied, or by usage of trade, statutory or otherwise, with regard to these uses of the product sold, including, but not limited to, merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage.

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 residential and turf uses after June 15, 1994 must contain the revised label language below. All other products (i.e., agricultural and industrial), manufactured after October 23, 1993 must bear the revised label language below.

GENERAL REQUIREMENTS FOR END-USE PRODUCT LABELING

1. 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."
2. 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 a 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. Clothing Requirement Statements: "When mixing, loading or applying this product or repairing or cleaning equipment used with this product, wear eye protection (face shield or safety glasses), chemical resistant gloves, long-sleeved shirt, long pants, socks and shoes. It is recommended that safety glasses include front, brow and temple protection. For aerial applicators in enclosed cockpits and applicators applying this product from a tractor that has a completely enclosed cab, eye protection is not required."
- b. 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, face 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."

c. The maximum application rate to pasture and rangeland 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 per site.

d. The maximum application rate for forestry site preparation 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 per site.

e. A re-entry interval is required and should be in accordance with the Worker Protection Standard, 40 CFR Parts 156 and 170.

2. FOR INDUSTRIAL USES

a. Clothing Requirement Statements: "When mixing, loading or applying this product or repairing or cleaning equipment used with this product, wear eye protection (face shield or safety glasses), chemical resistant gloves, long-sleeved shirt, long pants, socks and shoes. It is recommended that safety glasses include front, brow and temple protection. For aerial applicators in an enclosed cockpits and applicators applying this product from a tractor that has a completely enclosed cab, eye protection is not required."

b. 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, face 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."

3. FOR RESIDENTIAL AND TURF USES

a. Clothing Requirement Statements: (1) For All Granular Products: When using this product, wear long-sleeved shirt, long pants, socks and shoes.", (2) For homeowners and other non-commercial users of liquid 2,4-D products, and for commercial mixer/loader/applicators of liquid 2,4-D products when the product is to be applied to a golf course: (a) For Amine Liquid Products carrying "CAUTION" signal word: "When using this product, wear long-sleeved shirt, long pants, socks and shoes and rubber gloves.", (b) For Amine Liquid Products carrying "WARNING" or "DANGER" signal word: "When using this product, wear long-sleeved shirt, long pants, socks and shoes, rubber gloves and eye protection. It is recommended that safety glasses include front, brow and temple protection." (c) For Acid, Sodium Salt and Ester Liquid Products carrying "CAUTION" signal word: "When using this product, wear long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves.", (d) For Acid, Sodium Salt and Ester Liquid Products carrying "WARNING" or "DANGER" signal word: "When using this product, wear long-sleeved shirt, long pants, socks, shoes, chemical-resistant gloves and eye protection. It is recommended that safety glasses include front, brow and temple protection." (3) Commercial mixer/loader/applicators of liquid 2,4-D products, except when the product is to be applied to a golf course: (a) For products carrying "CAUTION" signal word: "When mixing, loading or applying this product, wear long-sleeved shirt, long pants, socks, shoes and chemical resistant gloves.", (b) For products carrying "WARNING" or "DANGER" signal word: "When using this

- product, wear long-sleeved shirt, long pants, socks, shoes, chemical resistant gloves and eye protection. It is recommended that safety glasses include front, brow and temple protection."

b. 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."

c. The maximum application rate to turf 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 per site. The maximum number of broadcast applications** per treatment site is 2 per year.

**One application may be defined as treating the entire area in two passes at the half rate each time (i.e., crisscrossing from end to end and then side to side).

d. The following reentry statement must be included: "Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried or dust has settled."

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

JUN 20 2001

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

61272-7

NOTICE

SELLER MAKES NO WARRANTY EXPRESSED OR IMPLIED, CONCERNING THE USE OF THIS PRODUCT OTHER THAN INDICATED ON THIS LABEL. BUYER ASSUMES ALL RISKS OF USE, STORAGE AND HANDLING OF THIS MATERIAL NOT IN STRICT ACCORDANCE WITH DIRECTIONS GIVEN HEREWITH.

**Manufactured By
Nufarm USA, Inc.
St. Joseph, MO 64504**