

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0080. Approval expires 05-31-98



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other (X)

OPP Identifier Number 246863

Application for Pesticide - Section I

1. Company/Product Number 100-587
2. EPA Product Manager Miller
3. Proposed Classification [X] None [ ] Restricted
4. Company/Product (Name) Technical Metolachlor
5. Name and Address of Applicant (Include ZIP Code) Ciba Crop Protection, Greensboro, NC 27419
6. Expedited Review. In accordance with FIFBA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. "Me Too" Application. Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Clarification of Intended Product Use [formulation only, not repackaging] per PR Notice 95-2.

(See attached sheet)

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container: Metal, Plastic, Glass, Paper, Other (Specify). 3. Location of Net Contents Information, 4. Size(s) Retail Container, 5. Location of Label Directions, 6. Manner in Which Label is Affixed to Product

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Name: Karen S. Stumpf, Title: Senior Regulatory Manager, Telephone No. (910) 632-2169. Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. 2. Signature: Karen S. Stumpf, 3. Title: Senior Regulatory Manager, 4. Typed Name: Karen S. Stumpf, 5. Date: October 11, 1996, 6. Date Application Received (Stamped)

"This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA."

The front panel statement listing all approved uses\* has been moved to the Directions for Use. The front panel statement is changed to read "For formulation only into herbicides for weed control in certain crops." The statement "Repackaging of this product is prohibited" is added to the Directions for Use to clarify what is meant by "formulation only" and to reiterate what is implied by the statement already appearing in the Conditions of Sale and Warranty, "No end use other than formulation is intended or implied by the above Conditions of Sale and Warranty."

\*Since the last label update in 1994, the following uses have been approved under 24(c) labeling - celery, onions (dry bulb), radishes grown for seed and meadow foam. These are added then to the list of approved uses.

(Pressure Sensitive Label)

Metolachlor Technical

\_\_\_\_\_ Gallons  
U.S. Standard Measure

*added*

For Formulation Only Into Herbicides For Weed Control in Certain Crops.

Active Ingredient:	
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)acetamide .....	95%
Inert Ingredients:	5%
Total:	100%

Made in Switzerland (For CGA only)

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

Harmful if swallowed or absorbed through skin. May cause skin sensitization reactions in certain individuals. Wear protective clothing (coveralls and gloves) while handling and using this product. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling.

**Statement of Practical Treatment**

**If swallowed:** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**If on skin:** Wash with plenty of soap and water. Get medical attention.

**Note to Physician:** If swallowed, there is no specific antidote. Induce emesis and lavage stomach. Treat symptomatically! The use of an aqueous slurry of activated charcoal (such as Norit A) and a saline cathartic should be considered.

**NOTIFICATION**  
OCT 21 1996

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REC'D EPA/CPP/DPD1

**Environmental Hazards**

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.

EPA Reg. No. 100-587

Product ID. 52310 (for Est. No. 100-LA-1)

Product ID. 51245 (for Est. No. 524-IA-1)

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**DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY**

**IMPORTANT:** Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

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**Conditions of Sale and Warranty**

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The **Directions for Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use** subject to the inherent risks referred to above. **Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty**, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

**No end use of this product other than formulation is intended or implied by the above Conditions of Sale and Warranty.**

**DIRECTIONS FOR USE**

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

**Repackaging of this product is prohibited.** - added

This product is to be used <sup>added</sup> only for formulation into herbicides for the following use(s): corn, cotton, peanuts, pod crops, potatoes, safflower, sorghum (grain or forage), soybean, nonbearing citrus, nonbearing grapes, stone fruits, tree nuts, cabbage, peppers (bell, chili, cubanelle, tabasco), alfalfa grown for seed, <sup>added</sup> celery, onion (dry bulb), meadowfoam, radishes grown for seed, buffalograss and guymon bermudagrass for seed production, nurseries, turf, and landscape plantings. } added

**Chemical and Physical Properties**

Refer to **Metolachlor Technical, Technical Bulletin.**

**Note to Formulators**

Formulators are responsible for providing data to support registration of products formulated from Metolachlor Technical.

**Storage and Disposal**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product are toxic. Improper disposal of unused pesticide is a violation of federal law. Pesticide that cannot be used according to label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

**Container Disposal**

Thoroughly clean container before reuse.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

Imported by  
Ciba Crop Protection  
Ciba-Geigy Corporation

CGA (Basle) (EPA Est. 41448-SWC1)  
 CGA (St. Gab.) (EPA Est. 100-LA-1)  
 CGA (524-IA-1) (EPA Est. 524-IA-1)

- Revised June 5, 1981
- Revised February 10, 1984
- Revised June 15, 1987
- Revised Metolachlor Reg. Standard  
November, 1989
- Revised Made in Switzerland  
September 8, 1992
- Revised PR Notice 91-8  
February, 1994
- Revised PR Notice 93-10,  
add 524-IA-1 Est.  
September 1994
- Revised PR Notice 94-1  
October, 1996 prohibit repackaging

[LABELM-MS-W/METO-TF5] - 10/11/96

# TECHNICAL BULLETIN

## Metolachlor Technical

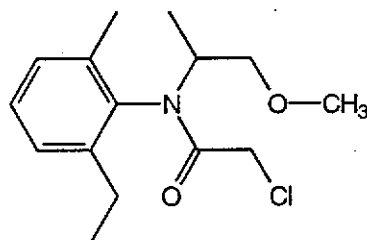
Chemical Name : Acetamide, 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-(2-methoxy-1-methylethyl)-

Chemical Abstract Number : 51218-45-2

Common Name : Metolachlor

Company Code Number : CGA-24705

Molecular Structure :



Empirical Formula :  $C_{15}H_{22}NO_2Cl$

Molecular Weight : 283.8

Physical State : Clear liquid

Color : Light yellow

Odor : Weak aromatic

Boiling Point :  $100^{\circ}C$  @ 0.04 mmHg

Density ( $20^{\circ}C$ ) : 1.12 g/cm<sup>3</sup> (typical)

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REC'D LPA/CP P/DPD1



Solubility (g/100ml @ 20°C): Water: 0.0488 (deionized water)

- acetone completely miscible
- hexane completely miscible
- toluene completely miscible
- ethanol completely miscible
- n-octanol completely miscible

Vapor Pressure (25°C):  $3.14 \times 10^{-5}$  mmHg

Henry's Law Constant (25°C):  $2.4 \times 10^{-8}$  atm·m<sup>3</sup>/mol

Octanol/Water Partition Coefficient (25°C):  $\log P_{ow} = 2.90$

Dissociation Constant (pK<sub>a</sub>): no dissociation in pH range 2-12

pH (25°C): 7.3 (1% aqueous dispersion)

Stability: <1% decomposition after 12 months at 25°C