


U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (77-767) WASHINGTON, DC 20480	EPA REGISTRATION NO. 10182-90	DATE OF ISSUANCE 17 JAN 1986
<b>NOTICE OF PESTICIDE:</b> <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	TERM OF ISSUANCE	
NAME OF PESTICIDE PRODUCT Clipper 20 UL		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)  <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: 80%;">           ICI Americas, Inc.            Agricultural Chemicals Division            New Murphy Road &amp; Concord Pike            Wilmington, DE 19897         </div>		
NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.		
On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.		
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.		
Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others. This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:		
<ol style="list-style-type: none"> <li>1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.</li> <li>2. Make the labeling changes listed below before you release the product for shipment:           <ol style="list-style-type: none"> <li>a. Add the phrase "EPA Registration No. 10182-90."</li> <li>b. Place the storage and disposal instructions under the heading "Directions For Use," subheading "Storage and Disposal."</li> <li>c. Under the heading "Environmental Hazards," add the statement,  Do not apply directly to water or wetlands.</li> <li>d. Change the percentage of paclobutrazol from 2.79 percent to 2.51 percent, in the active ingredient statement. Accordingly, adjust the percentage of inert ingredients.</li> </ol> </li> <li>3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.</li> </ol>		
<input checked="" type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL 		DATE 1/17/86

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.

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

Robert J. Taylor  
Product Manager (25)  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

Enclosures

(Central Panel)

CLIPPER™ 20 UL

Tree Growth Retardant  
For Ornamental Trees

ACTIVE INGREDIENT

PACLOBUTRAZOL (±)-(R*,R*)- 3 -[(4-chlorophenyl)methyl]- α -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol.....	2.79%
INERT INGREDIENTS.....	97.21%
TOTAL.....	100%

KEEP OUT OF REACH OF CHILDREN  
CONTAINS METHANOL

DANGER

See side panel for additional precautionary statements and statement  
of practical treatment.

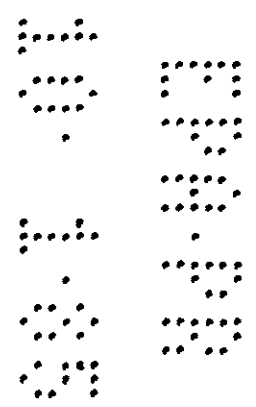
ICI Americas  
Agricultural Chemicals Division  
Wilmington, Delaware 19897

U.S. Patent No.:  
EPA Est. No.: 10182-NC-01  
EPA REG No.: 10182-  
Net Contents: 1 Gallon

N-84-B20-R

POISON  
(in red)

ACCEPTED  
JAN 17 1986  
EPA Reg. No. 10182-90



CLIPPER™ 20 UL

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

O POISON O  
X X

DANGER!

Contains methanol. Causes irreversible eye damage. Repeated/prolonged contact causes skin irritation. Fatal if swallowed. Cannot be made nonpoisonous. May cause blindness. Do not get in eyes, on skin, or on clothing. Wear goggles, face shield, or safety glasses and rubber gloves. Avoid breathing vapor. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: If victim is conscious, give one or two glasses of water to drink and induce vomiting by sticking finger down throat. Repeat until vomitus is clear. Never give anything by mouth to an unconscious person. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. If redness, itching or a burning sensation develops, get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

For 24-hour emergency assistance, call (302) 575-3000.

NOTE TO PHYSICIAN

Consideration should be given to the administration of ethanol in order to competitively interfere with metabolism of methyl alcohol to more toxic degradation products. Use general supportive measures in conjunction with scrupulous monitoring of acid-base balance, electrolyte levels, and fluid intake.

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wastes. In case of a significant spill, call CHEMTREC 800/424-9300.

**PHYSICAL OR CHEMICAL HAZARDS:** Flammable. Do not use or store near heat source or open flame. Do not use in vicinity of pilot lights.

**IN CASE OF FIRE:** Use dry chemical, alcohol foam, or carbon dioxide. Water may be ineffective.

#### STORAGE AND DISPOSAL

**STORAGE:** Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. 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 of the nearest EPA Regional Office for guidance. Because of a flash point below 140°F, discarded product is a hazardous waste, No. D001 under RCRA, 40 CFR 261.21. Dispose of in a facility permitted for hazardous waste.

**CONTAINER DISPOSAL:** Do not distribute, make available, furnish, or reuse empty container except for storage and shipment of original product. Metal Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture or otherwise destroy empty container and dispose of in a facility permitted for nonhazardous waste. Plastic Containers: Triple rinse (or equivalent). Then puncture or otherwise destroy empty container and dispose of in a facility permitted for nonhazardous waste. Glass Containers: Triple rinse (or equivalent) and dispose of in a facility permitted for nonhazardous waste.

**NOTICE TO BUYER AND USER:** Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Seller and buyer and User assumes the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in possession of the user at the time of application.

#### GENERAL INFORMATION:

CLIPPER 20 UL extends tree-trimming cycles by slowing regrowth of treated trees, allowing longer intervals between trimmings. This effect is achieved by inhibiting gibberellin biosynthesis which results in long-term retardation and internode compression on a wide range of deciduous and broadleaf trees. CLIPPER 20 UL shows little or no phloem mobility. Activity occurs by xylem interception from trunk injections. Once activated CLIPPER 20 UL results in intensified greening of foliage with no phytotoxicity. Applications can enhance flowering in some species.

#### APPLICATION DIRECTIONS:

Apply throughout the year weather permitting.

Do not reapply CLIPPER 20 UL until effects of previous applications begin to wear off or within 3 years of last application, whichever comes first.

#### INJECTOR SPACING RECOMMENDATIONS

TREE SPECIES		
COMMON NAME	SCIENTIFIC NAME	INJECTOR SPACING (inches)
Australian Pine	<u>Casuarina equisetifolia</u>	8"
Siberian Elm	<u>Ulmus pumila</u>	8"
Sweet Gum	<u>Liquidambar styraciflua</u>	8"
Other	-	See Notice to User Below

Note to User: Specific recommendations for many species and varieties of ornamental trees are under development. Since xylem arrangement in trees can affect distribution of CLIPPER, narrow (4") injector spacing may be required in certain tree species. The professional user should determine the proper injector spacing to be used on tree species not specifically mentioned above. If in doubt, use the 4" spacing method.

TRUNK INJECTION OF TREES WITH CLIPPER 20 UL\*

TREE DIAMETER AT INJECTION HEIGHT (inches)	INJECTOR SPACING			
	4"		8"	
	# OF HOLES	MIN. VOL. (ml) CLIPPER 20 UL/HOLE	# OF HOLES	MIN. VOL. (ml) CLIPPER 20 UL/HOLE
8	6	25	3	50
9-11	8	25	4	50
12	10	25	5	50
13-14	10	38	5	75
15-16	12	38	6	75
17-19	14	38	7	75
20-21	16	38	8	75
22-24	18	38	9	75
25-26	20	38	10	75
27-29	22	38	11	75
30-31	24	38	13	75
32-34	26	38	13	75
35	28	38	14	75

\* DO NOT INJECT MORE THAN 150 ML OF CLIPPER 20 UL PER INJECTION HOLE

Injection Techniques:

Injection holes should be uniformly spaced around the tree trunk and within 0 to 2 feet above the soil surface.

Drill injection holes horizontally into the trunk at a 30°-45° angle to the plane of the trunk to intercept the outer sapwood. Injection holes should not exceed 2½ inches (6.3 cm) in depth and 7/32 inches (5.5 mm) in width.

Use appropriate trunk-injection equipment capable of injection pressures from 50 to 200 psi.

PRECAUTIONS:

Do not inject CLIPPER into:

- Trees that do not appear healthy
- Sugar maple trees tapped for sugar
- Fruit or nut trees that will be harvested within one year after application