


Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A) 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number 156305
	Application for Pesticide:		

Section I

1. Company/Product Number Merck/ 618-88	2. EPA Product Manager Cynthia Giles-Parker	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) ARBOTECT 20-S Fungicide	PM#	
5. Name and Address of Applicant (Include ZIP Code) Merck & Co., Inc. P.O. Box 450 Hillsborough Road Three Bridges, NJ 08887-0450 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION MAY 7 1996
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.	

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

Notification of minor labeling revisions: correction of typographical errors; update of environmental hazards statement to comply with PR Notice 93-3; update of EPA manufacturing establishment number to 39578-TX-1.

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)	
* Certification must be submitted.		If "Yes," Unit Package wgt.	No. per container	If "Yes," Package wgt.	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other ()					


Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Patricia A. Sheehy	Title Manager, Regulatory Affairs	Telephone No. (Include Area Code) (908) 369-3072
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Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title Manager, Regulatory Affairs
4. Typed Name Patricia A. Sheehy	5. Date 1 November 1996

6. Date Application Received (Stamped)

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Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

It is a violation of Federal (U.S.A.) law to use this product in a manner inconsistent with its labeling.

ELM TREES — 1 Year Treatment — Aids in the control of Dutch Elm Disease:

Preventive Treatment — For each 5 inches of trunk diameter inject 1 fluid ounce ARBOTECT 20-S in 40 fluid ounces (1 1/4 quarts) of water to 2 fluid ounces ARBOTECT 20-S in 80 fluid ounces (2 1/2 quarts) of water. Use the higher levels of ARBOTECT 20-S under high disease pressure situations.

Preventive applications should be made when leaves approach full size, usually in late May or June.

Therapeutic Treatment — For each 5 inches of trunk diameter inject 2 fluid ounces of ARBOTECT 20-S in 80 fluid ounces (2 1/2 quarts) of water to 4 fluid ounces of ARBOTECT 20-S in 160 fluid ounces of water. Use the higher levels of ARBOTECT 20-S under high disease pressure situations.

Therapeutic applications should be made as soon as the current year infections are seen, usually in late June through August.

For optimum disease control, preventive treatment is recommended. When a tree shows more than 5% crown symptoms, treatment may not be effective. Treatment should be used in conjunction with an insect control and sanitation program (pruning of diseased limbs) in order to obtain best results. Trees that are 5 inches or less in diameter at chest height should not be treated.

Place injection sites as near ground level as possible at 3 to 10 inch intervals around the trunk with a maximum hole diameter of 1/2 inch using a minimum of 3 or 4 equally spaced injection points per tree.

ELM TREES — 3 Year Treatment — For Preventive and Therapeutic Treatment of Dutch Elm Diseases:

Inject 12 ounces of ARBOTECT 20-S for each 5 inches of trunk diameter. Dilute each 2.0 fluid ounces of ARBOTECT 20-S with 1 gallon of water. Inject into any exposed root flares, below ground, once every three years. The maximum diameter of the injection holes should be 1/2 inch. Do not use this treatment if trees are less than 10 inches in diameter. When a tree shows more than 5% crown symptoms, treatment may not be effective. Treatment should be used in conjunction with an insect control and sanitation program (pruning of diseased limbs) in order to obtain best results.

SYCAMORE TREES — Aids in the control of Sycamore Anthracnose:

For each 5 inches of trunk diameter, inject 4 fluid ounces of ARBOTECT 20-S diluted with 80 to 160 fluid ounces of water (one part ARBOTECT 20-S to between 20 and 40 parts of water).

For best results, injections should be made in late Summer or early Fall, in each of two consecutive years. Repeat treatments may be necessary if the disease reappears.

Place injection sites at 3 to 10 inch intervals around the trunk with a maximum hole diameter of 1/2 inch using a minimum of 3 or 4 equally spaced injection points per tree. Injection sites may be placed in root flares at or below ground level or in the trunk as near as ground level as possible. Trees that are 5 inches or less in diameter at chest height should not be treated. If pressure injection is to be used, do not exceed 100 psi.

Do not dilute ARBOTECT 20-S with highly alkaline water as a precipitate may form.

ARBOTECT 20-S is to be used by trained arborists and others trained in injection techniques and in the identification of Dutch elm disease and sycamore anthracnose.

ARBOTECT® 20-S

FUNGICIDE

For Dutch Elm Disease and Sycamore Anthracnose

Product 95556

Active Ingredient:	
2-(4-thiazolyl) benzimidazole hypophosphite	26.6%
(equivalent to 20% 2-(4-thiazolyl) benzimidazole)	
Inert Ingredients:	73.4%

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
KEEP OUT OF REACH OF CHILDREN
CAUTION
HARMFUL IF SWALLOWED.
MAY IRRITATE SKIN.
Avoid contact with skin or eyes.

STATEMENT OF PRACTICAL TREATMENT
If on skin: Wash with plenty of water.
If in eyes: Flush with plenty of water for at least 15 minutes and get medical attention.
If swallowed: Give 1 or 2 glasses of water and induce vomiting by gently touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.
For 24-hour emergency information, call the Merck National Service Center at 1-800-672-6372.

John A. ... *...*

1 GALLON (3.78 liters)

EPA REG. NO. 618-88; EPA EST. NO. 39578-TX-1
See Side Panels for Directions for Use

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See Side Panels for Directions for Use

STORAGE AND DISPOSAL

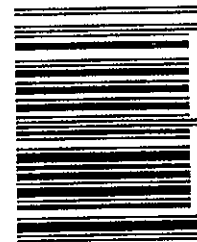
Prohibitions — Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse container.

Pesticide Disposal — Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

Container Disposal — Triple rinse (or equivalent), then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE OF WARRANTY — 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. 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 MERCK or the Seller. Treatment may not be effective if tolerant strains of fungi develop. Use of alternate treatments should be considered if treatment with ARBOTECT 20-S proves ineffective. All such risks shall be assumed by the Buyer.

MERCK 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. Buyer assumes all risks of use and handling which are at variance in any way with the directions hereon. Buyer's exclusive remedy shall be refund or replacement of any product found by MERCK to be defective. MERCK makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall MERCK or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product, regardless of the legal theory asserted, including negligence and/or strict liability. MERCK and the Seller offer this product and the Buyer and user accept it, subject to the foregoing Notice of Warranty which may be varied only by agreement in writing signed by a duly authorized representative of MERCK.



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ARBOTECT is a registered trademark of Merck & Co., Inc., Whitehouse Station, N.J., U.S.A.

U.S. Pats. 3,370,957 and 3,535,331

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Manufactured for

Merck & Co., Inc.
Rahway, New Jersey 07065-0912, U.S.A.

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