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62719-221

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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460 NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	EPA REGISTRATION NO. 62719-221	DATE OF ISSUANCE October 7, 1991
	TERM OF ISSUANCE Until Reregistration NAME OF PESTICIDE PRODUCT Lorsban 50% Insecticide in Water Soluble Packets	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Bowblance
 2002 Purdue Road--Quad IV
 Indianapolis, IN 46208-1139

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)(C) provided that you:

1. Submit to/submit date of data submitted to EPA for registration, reregistration of your product under FIFRA section 3(c)(3) and FIFRA section 3(c)(7)(C) and the Agency requires all registrants of similar products to submit data.

2. Submit to/submit date of data submitted to EPA for registration, reregistration of your product under FIFRA section 3(c)(3) and FIFRA section 3(c)(7)(C) and the Agency requires all registrants of similar products to submit data.

3. Submit five (5) copies of your final printed labeling when you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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.

Dennis H. Edwards, Jr.
 Product Manager (19)
 Insecticide-Rodenticide Branch
 Registration Division (H7565C)

Enclosures

BEST AVAILABLE COPY☒ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Dennis H. Edwards, Jr.

DATE

10/7/91

EPA Form 8570-6 (Rev. 5-76)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

63359:I:CR-30:WP5.0:Andreasen:C.Disk:KEVRIC:10/01/91:rj:DD:CL

OCT 7 1991

Specimen Label

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

62719-221

Lorsban* 50W

Wettable Powder Insecticide

For Control of Various Insects on Certain Fruit and Nut Crops

Active Ingredient(s):

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate] 50%

Inert Ingredient(s): 50%

E.P.A. Registration No. 464-362

E.P.A. Est. 477-TX-1

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO:

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la
etiqueta le haya sido explicada ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

MAY BE FATAL IF SWALLOWED

- HARMFUL IF ABSORBED
THROUGH SKIN OR INHALED
- CAUSES EYE IRRITATION

Avoid Contact With Eyes, Skin, Or Clothing

- Avoid Breathing Dust Or Spray Mist
- Wash Thoroughly With Soap And Water
After Handling And Before Eating Or
Smoking • ~~When Loading The Spray Tank
Or Handling The Powder, Wear A Pesticide
Respirator, Jointly Approved By The Mining
Enforcement And Safety Administration
(Formerly The U.S. Bureau Of Mines) And
By The National Institute For Occupational
Safety And Health Under The Provisions of
30 CFR Part II •~~ Wear Protective Clothing
Such As Long Pants, Long Sleeved Shirt,
Gloves, Hat, And Boots When Loading The
Spray Tank ~~Or Handling The Powder And~~
During Application Of The Spray Mixture
- Work To Windward To Stay Out Of Spray
Drift Or Mist • Remove Contaminated
Clothing And Wash Before Reuse • Do Not
Apply This Product In Such A Manner as to
Directly Or Through Drift Expose Workers or
Other Persons • The Area Being Treated
Must Be Vacated by Unprotected Persons
- Keep Away From Food, Feedstuffs And
Water Supplies

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 if irritation persists. If In Eyes: Flush with
plenty of water for 5 minutes. Get medical attention if
irritation persists. If Inhaled: Remove to fresh air if effects
occur. Get medical attention.

NOTE TO PHYSICIANS: Chlorpyrifos is a cholinesterase
inhibitor. Treat symptomatically. If exposed, plasma and
red blood cell cholinesterase tests may indicate
significance of exposure (baseline data are useful).
Atropine, only by injection, is the preferable antidote.
Oximes, such as 2-PAM/protopam, may be therapeutic
if used early; however, use only in conjunction with
atropine. In case of severe acute poisoning, use antidote
immediately after establishing an open airway and
respiration.

Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely
toxic to fish and aquatic organisms. Do not apply directly
to water. Drift and runoff from treated areas may be
hazardous to aquatic organisms in adjacent aquatic sites.
Cover or incorporate spills. Do not contaminate water
when disposing of equipment washwaters. This product is
highly toxic to bees exposed to direct treatment or
residues on blooming crops or weeds. Avoid use when
bees are actively foraging or if bees are likely to come in
contact with wet or re-wetted treated surfaces. Protective
information may be obtained from your Cooperative
Extension Service. This product may pose a hazard to
certain Federally endangered fish species. Refer to the
Endangered Species section of this label for any
geographic restrictions.

NOTICE

Read and understand the entire label before using. Use
only according to label directions.

Before buying or using this product, read "WARRANTY
LIMITATIONS AND DISCLAIMER" elsewhere on this label.
If terms are not acceptable, return unopened package at
once to seller for full refund of purchase price paid.
Otherwise, use by the buyer or any other user constitutes
acceptance of the terms under WARRANTY LIMITATIONS
AND DISCLAIMER.

IN CASE OF AN EMERGENCY

endangering life or property involving this
product, call collect 517-636-4400

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds,
Drugs, or Clothing

Lorsban* 50W

ENDANGERED SPECIES RESTRICTIONS

The use of LORSBAN 50W may pose a hazard to certain Federally endangered fish species. This product cannot be used on sour cherry trees in the following counties:

COLORADO: Delta, Larimer and Mesa

OHIO: Washington

UTAH: Emery, Grand, Utah and Washington

WISCONSIN: Iowa, Pierce, Richland and Vernon

DIRECTIONS FOR USE

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

General Information

LORSBAN 50W insecticide is a wettable powder formulation designed for use as a cover spray to control various pests. The pests controlled are listed in the accompanying table. LORSBAN 50W is compatible with insecticides, miticides, and fungicides commonly recommended in orchard spray schedules except for alkaline materials such as Bordeaux mixture and lime.

Test compatibility of the intended tank mixture before adding LORSBAN 50W to the spray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used.

Mixing Instructions

LORSBAN 50W mixes readily with water to form a suspension. ~~Mix the required amount of LORSBAN 50W with a small quantity of water and add this premix while filling the spray tank. Alternatively, fill the tank with the required amount of water and then add the premix. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.~~ LORSBAN 50W contains a wetting agent. Do not use additional wetting agents, spreaders or stickers.

Use and Dosage Recommendations

Use LORSBAN 50W at the dosages indicated by application as a foliar spray to control pests listed in the following table. Where a rate range is listed in the use directions, use the higher rate for more severe infestations. Mix the required dosage in sufficient water to ensure adequate coverage and apply as a concentrate or dilute spray using conventional, power-operated ground spray equipment or by aircraft (fixed-wing or helicopter). For dilute sprays applied to tree fruits and nuts, mix the required dosage in sufficient water to allow for spray to run off. For concentrate sprays, apply an equivalent amount of LORSBAN 50W per acre. Treat when pests appear or in accordance with local conditions. Mow or beat down orchard blooming weed cover crops before applying spray to tree fruit crops to reduce hazard to bees. This step is especially important in relation to early Spring cover sprays when morning conditions may be wet from dew. LORSBAN 50W will perform best in an almond or walnut pest control program that includes winter sanitation (removal of mummy nuts) and regular monitoring of target pests. To control apple aphid infesting apples, spray every 10 to 14 days on a preventative schedule. To suppress pecan leaf scorch mite on pecans, use in a preventative program. For best pecan *Phylloxera* control, use two applications 7 to 10 days apart starting at bud swell and ending by early leaf expansion. For ant control on pecans, do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Consult your State Agricultural Experiment Station, Certified Pest Control Advisor, or Extension Service specialist for specific use information in your area.

LORSBAN 50W may also be used on almonds and walnuts as a dormant/delayed dormant treatment applied at the dosages indicated in a dilute or concentrate spray. Proper equipment must be used to obtain complete coverage of the entire bark area. If scale infestations are severe, dilute sprays should be used to ensure complete coverage. Use oil as recommended by your State Agricultural Experiment Station, State Extension Service Specialist, or Certified Pest Control Advisor. Do not use oil with LORSBAN 50W on walnuts. Because dry or cold conditions may cause LORSBAN 50W plus oil sprays to infuse trees resulting in bud damage or drop, do not apply until winter rains or irrigation has replenished soil moisture such that bark and twigs are not desiccated.

The outer protective package contains five 1-lb water-soluble packets. Do not allow packets to become wet prior to adding to the spray tank. Wear gloves when handling water-soluble packets. Do not handle with wet gloves. Do not excessively handle water-soluble packets since this may cause breakage. Reseal outer package to protect remaining packets. Packets may become brittle when stored below 32°. Handle carefully to avoid breakage.

Fill the spray tank 1/3 full of water. Activate the agitation system. Add the required number of water-soluble packets to the spray tank. Complete filling the spray tank while the packets dissolve and the LORSBAN 50W disperses. For best results, add all LORSBAN 50W in the water-soluble packets to the water before any other tank-mix ingredients are added. Before beginning to spray, make sure the LORSBAN 50W has dispersed and the water-soluble packets have dissolved. NOTE: Depending on the water temperature and degree of agitation, the packets and LORSBAN 50W should be completely dispersed within approximately 5 minutes from the time they were added to the water. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

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Do not break individual packets. If the tank mix rate of 1 1/2 lbs/acre is to be used, mix the total spray in two acre increments to avoid the need for dividing individual packets.

APPLES: Use LORSBAN 50W to control the pests listed in the following table at the rates indicated.

Geographic Location	Pests Controlled	Dosage Recommendations	Remarks
Restrictions (All use Areas) Make no more than 8 applications per season. Do not apply last treatment within 28 days before harvest or apply last two treatments closer than 21 days apart. Do not allow livestock to graze in treated orchards.			
Additional Restrictions (by Geographic Location) In California: Do not do work involving contact with trees within 2 days after treatment.			
All Areas	Apple aphid ¹ , Apple maggot, Climbing cutworm, Codling moth, Dogwood borer (trunk spray), European apple sawfly, Eyespotted bud moth, European corn borer, Fruitree leafroller, Green fruitworm, Lesser appleworm, Obliquebanded leafroller, Orange tortrix, Pandemis leafroller, Oriental fruit moth, Periodical cicada, Plum curculio, Redbanded leafroller, Rosy apple aphid, San Jose scale, Tarnished plant bug, Tufted apple bud moth, Variegated leafroller, Woolly apple aphid.	3 lb/acre	¹ For apple aphid control LORSBAN 50W should not be used alone as a rescue treatment. (Three 1-lb packets) (Two or three 1-lb packets)
Connecticut, Delaware, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, N. Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia, West Virginia.	Apple aphid ² , Apple maggot ³ , Codling moth, Dogwood borer (trunk spray) ⁴ , European apple sawfly ⁵ , European corn borer ⁶ , European red mite ⁷ , Eyespotted bud moth, Fruitree leafroller, Green fruitworm, Lesser appleworm, Obliquebanded leafroller ⁸ , Oriental fruit moth, Periodical cicada ⁹ , Plum curculio ¹⁰ , Potato leafhopper, Redbanded leafroller, Rosy apple aphid, San Jose scale, Spotted tentiform leafminer ¹¹ , Tarnished plant bug, Tufted apple bud moth ¹² , Variegated leafroller, White apple leafhopper ¹³ , Woolly apple aphid	2-3 lb/acre (8-12 oz/100 gal dilute) ¹⁴ OR A tank mix of 1 1/2 lbs/acre (6 oz/100 gal dilute) with one of the following: 1 1/2 pints/acre LANNATE 1.8L (6 fl oz/100 gal dilute) ¹⁵ 6 oz/acre LANNATE 90SP (1 1/2 oz/ 100 gal dilute) ¹⁶ 2 lbs/acre IMIDAN 50W (8 oz/100 gal dilute) ¹⁷ 1 1/2 lbs/acre GUTHION 35W (6 oz/ 100 gal dilute), ¹⁸ 2 pints/acre PENNCAP M (8 fl oz/100 gal dilute) ¹⁹	² For apple aphid control, use 2-3 lbs/acre LORSBAN 50W or a tank mix with LANNATE 1.8L or LANNATE 90SP as recommended. LORSBAN 50W should not be used alone or in a tank mix as a rescue treatment. Treatments should be applied at regular intervals (1-2 weeks apart). ³ For apple maggot control in Michigan or in other areas after July, use 3 lbs/acre LORSBAN 50W or a tank mix with IMIDAN 50W, GUTHION 35W or PENNCAP M as recommended. ⁴ No tank mix recommended. ⁵ For European apple sawfly control, use 2-3 lbs/acre LORSBAN 50W or a tank mix with IMIDAN 50W, GUTHION or PENNCAP M as recommended. ⁶ For control of European corn borer or obliquebanded leafroller, use 2-3 lbs/acre LORSBAN 50W or a tank mix with LANNATE 1.8L or LANNATE 90SP as recommended. ⁷ European red mite suppression with LORSBAN 50W is achieved when a regularly scheduled preventative spray program is followed or when used with other mite management practices such as biological control. ⁸ For plum curculio control in Michigan, use 3 lbs/acre LORSBAN 50W or a tank mix with IMIDAN 50W, GUTHION 35W or PENNCAP M as recommended. For other areas, use 2-3 lbs/acre LORSBAN 50W or one of the above-mentioned tank mixes. ⁹ For control of spotted tentiform leafminer or white apple leafhopper, use a tank mix with LANNATE 1.8L or LANNATE 90SP as recommended. LORSBAN 50W alone is not recommended for control of these pests. ¹⁰ For tufted apple bud moth control, use 3 lbs/acre LORSBAN 50W or a tank mix with LANNATE 1.8L or LANNATE 90SP as recommended. ¹¹ Based on 400 gal dilute/acre.

Crop	Geographic Area	Insects Controlled	Dosage LORSBAN 50W	
Brassica (cole) Such as: Broccoli Brussel sprouts Cabbage Cauliflower Collards Kale Kohlrabi	All areas Except Texas	Cabbage aphid Cutworms Imported cabbageworm Striped flea beetle (adult)	2 lb/acre (Two 1-lb packets)	Make ap se Do 21 ha fo to ve no pes or are he st
	Texas	Beet armyworm Cabbage aphid Cutworms Diamondback moth ¹ Imported cabbageworm Striped flea beetle (adult)	2 lb/acre (Two 1-lb packets)	Make ap se Do 21 ha Do tha ex dre For at min of Con rec spr

(Table continued on next page)

			<p>Tank mixing is recommended only if previous experience indicates that the combination will not result in phytotoxicity under the current conditions of use, and the other pesticides and spray adjuvants are registered for this use.² Read and carefully follow all applicable directions, restrictions, and precautions on labeling for other products used in combination with LORSBAN 50W.</p>
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¹Significant organophosphate insecticide resistance has been reported for diamondback moth populations in Texas. LORSBAN 50W will not control organophosphate - resistant populations of diamondback moth. Consult your local Extension Service for resistance management information.

²For regional information regarding a specific tank mix, contact your local Dow Chemical Company representative. Tank mixes with Thiodan 3EC, Thiodan 50WP, or cottonseed oil are not recommended. Refer to the General Information section of this label for directions on testing tank mix compatibility.

(Replace)

Filberts	Walnut husk fly Eyespotted bud moth, Filbert aphid, Filbert leafroller, Filbertworm Obliquebanded leafroller, Omnivorous leaftier, Winter moth	3 or 4 lb per acre <div>OR</div>	walnuts per season, and no more than three foliar spray applications on filberts per season. Do not apply within 14 days of harvest. Do not allow livestock to graze in treated orchards. Do not apply as a dormant spray application on almonds in the following counties in California: Butte, Colusa, Glenn, Solano, Sutter, Tehama, Yolo and Yuba.
Pecans	Black pecan aphid, Hickory shuckworm, Pecan leaf scorch mite (suppression)	2 lb per 100 gallons	Make no more than 5 applications per season. Do not apply within 28 days of harvest. Do not allow livestock to graze in treated orchards.
	Pecan nut casebearer, <i>Phylloxera</i> spp., Fall webworm, Spittlebug	1 lb per 100 gallons	(Two 1-lb packets) (One 1-lb packets)
	Fire ants and other ant species (orchard floor)	2 lb per acre	(Two 1-lb packets)
Brassica (cole) Broccoli Brussels sprouts Cabbage Cauliflower Collards Kale Kohlrabi	Cabbage aphid Cutworms Imported cabbageworm Striped flea beetle (adult)	2 lb per acre	Make no more than 6 applications per season. Do not apply within 21 days before harvest. To avoid phytotoxicity in vegetable crops, do not mix with other pesticide products or treat plants that are under extreme heat and drought stress.
Sour Cherries	Borers American plum Lesser peachtree Pacific flatheaded Peach twig Peachtree Shothole Climbing cutworm Green fruitworm Leafrollers Fruitree Obliquebanded Pandemis Redbanded Lesser appleworm Tarnished plant bug Moth Eyespotted bud Mineola Scale European fruit lecanium San Jose Stink bug	2 or 3 lb per acre <div>OR</div>	Make no more than 8 applications per season. Do not apply within 14 days of harvest. Do not allow livestock to graze in treated orchards. In California do not do work involving contact with trees within 2 days after treatment. Do not use on sweet cherries. Refer to the Endangered Species Section of this label for geographic restrictions on the use of LORSBAN 50W on sour cherries. (Two or three 1-lb packets) (Three 1-lb packets)
	Black cherry aphid Cherry fruit fly Plum curculio Rose chafer	3 lb per acre	

REENTRY STATEMENT

Do not allow reentry into treated areas within 24 hours unless protective clothing is worn. Protective clothing consists of at least a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. These oral warnings shall inform workers of areas or fields that may not be entered without protective clothing and actions to take in case of accidental exposure as shown by the Statement of Practical Treatment section on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information: WARNING. Area treated with LORSBAN 50W wettable powder insecticide on (insert date of application). Do not enter without protective clothing for 24 hours. In case of accidental exposure (insert actions to take as shown by the Statement of Practical Treatment section on this label).

STORAGE AND DISPOSAL

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

~~Pesticide Disposal:~~ Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

~~Container Disposal:~~ Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

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Storage: Store in original container in secured dry storage area. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide disposal: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container disposal: When all packets are used dispose of empty package in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

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SPECIMEN LABEL

DATE CODE