

Product Data Sheet

Professional Turf

62719-035

Registrant:

DowElanco
9330 Zionsville Road, Building 308/3E-05
Indianapolis, IN 46268
Contact Person: Ms. Terry Fuhs
1/800-892-6740

EPA Approval 3/4/94

Revisions Include:

Product label amended to remove it from the scope of the Worker Protection Standard.

ACCEPTED
NOV 08 1994
EPA Reg. No. 62719-35

BASE LABEL



Professional Turf Insecticide

To be applied only by or under the direct supervision of commercial applicators responsible for insect control programs. Sale to or use by persons owning or occupying a dwelling is strictly prohibited.

Active Ingredient:

chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate.....	44.9%
Inert Ingredients	55.1%

Contains 4 pounds of chlorpyrifos per gallon.

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

WARNING

May Be Fatal If Swallowed • Absorption Through Skin
May Be Fatal • Causes Substantial But Temporary Eye Injury • Causes Skin Irritation

Do not get in eyes, on skin or clothing. Wear eye protection. Avoid breathing vapors and spray mist. Handle concentrate in a ventilated area. When handling concentrate, wear protective clothing such as long-sleeved shirt, long-legged pants, hat, rubber gloves and footwear resistant to aromatic solvents, i.e. neoprene or nitrile butadiene rubber. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Keep away from food, feedstuffs and water supplies.

First Aid

If swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person.

Specialty Insecticide

If on skin: Immediately wash with plenty of soap and water. Get medical attention.

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

If inhaled: Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

Note to physician: 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 by cleaning of equipment or disposal of waste. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Physical or Chemical Hazards

Combustible — Do not use or store near heat or open flame.

Refer to attached label booklet for additional precautionary information and Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-35
70293

EPA Est. 464-MI-1
900-002121

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Professional Turf Insecticide

To be applied only by or under the direct supervision of commercial applicators responsible for insect control programs. Sale to or use by persons owning or occupying a dwelling is strictly prohibited.

Active Ingredient:	
chlorpyrifos, O,O-diethyl O--	
(3,5,6-trichloro-2-pyridinyl)	
phosphorothioate	44.9%
Inert Ingredients	55.1%
Contains 4 pounds of chlorpyrifos per gallon.	

Keep Out of Reach of Children
WARNING
Specialty Insecticide

Refer to inside of label booklet for additional precautionary information and Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

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Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

WARNING AVISO:

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

May Be Fatal If Swallowed • Absorption Through Skin May Be Fatal • Causes Substantial But Temporary Eye Injury • Causes Skin Irritation

Do not get in eyes, on skin or clothing. Wear eye protection. Avoid breathing vapors and spray mist. Handle concentrate in a ventilated area. When handling concentrate, wear

protective clothing such as long-sleeved shirt, long-legged pants, hat, rubber gloves and footwear resistant to aromatic solvents, i.e. neoprene or nitrile butadiene rubber. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Keep away from food, feedstuffs and water supplies.

First Aid

If swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person. **If on skin:** Immediately wash with plenty of soap and water. Get medical attention. **If in eyes:** Flush with plenty of water for 15 minutes. Get medical attention. **If inhaled:** Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

Note to physician: 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.

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weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Physical or Chemical Hazards

Combustible — Do not use or store near heat or open flame.

Directions for Use

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

Read all Directions for Use carefully before using.

Chemigation: Do not apply this product through any type of irrigation system.

Do not formulate this product into other

end-use products.

Not for use on plants grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

Storage and Disposal

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

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F for extended periods of time. Storage below 20°F may result in formation of crystals. If product crystallizes, store at 50 to 70°F and agitate to redissolve crystals. If container is damaged or spill occurs, use product immediately or

Storage and Disposal (Cont.)

dispose of product and damaged container as indicated below.

Pesticide Disposal: Pesticide wastes are toxic. 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 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.

General Information

Professional Turf Insecticide is an emulsifiable concentrate designed for use as a spray to control various pests injurious to trees, turf and ornamental plants. The pests controlled are listed in the accompanying tables. Professional Turf Insecticide is compatible with insecticides, miticides, and fungicides commonly recommended except for alkaline materials such as Bordeaux mixture and lime. A small amount of spray mixture should be prepared to check for compatibility before a large volume of spray is mixed.

Attention: Do not allow adults, children or pets on treated areas until spray has dried. Keep out of fishpools and other bodies of water. Do not treat vegetable gardens. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings (hay) or seed screenings to livestock nor use hay for livestock bedding. Do not use in poultry houses.

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Turf and Other Outdoor Uses

Use Professional Turf Insecticide to control the pests listed in the following table by application at the recommended dosages. Dilute Professional Turf Insecticide in water and

apply as a coarse, low-pressure spray using suitable application equipment. For best results, the lawn should be moist at time of treatment. Spray when pests first appear; re-treat when needed, but not more than once every 7 days.

Pest†	Amount of PTI per		Specific Directions
	1000 sq ft	Acre	
ants (including foraging fire ants) armyworm (beet) (fall) (yellowstriped) centipedes chiggers ¹ chinch bugs crickets cutworms earwigs fiery skipper fire ants (mounds) ² fleas grasshoppers greenbugs June beetles leafhoppers Lucerne moth millipedes mites (clover) (Bermuda grass stunt) (winter grain)	3/4 fl oz	1 qt	<p>1. Use Professional Turf Insecticide for area control of ticks and chiggers infesting non-cropland areas such as roadsides, footpaths and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or a possible public health problem. Do not allow public use of treated areas during application or until spray has dried. Apply Professional Turf Insecticide in water at the rate of 1/2 pint per acre (equivalent to 1/2 fl oz per 2,700 sq ft) using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand- or power-operated spray equipment. Treat low underbrush, grassy areas, weeds, and ground surface and debris, using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons/acre.</p> <p>2. For individual fire ant mounds, apply Professional Turf Insecticide as a drench, diluted at the rate of 1 fl oz (30 ml) per 4 gallons of water. Gently sprinkle a total of 1 to 2 gallons of the diluted emulsion over the surface of each mound using a gentle spray (such as a sprinkler can).</p>

† Superscripts refer to "Specific Directions".

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Pest†	Amount of PTI per		Specific Directions
	1000 sq ft	Acre	
mosquitoes ³ pillbugs sod webworm ⁴ (lawn moths) sowbugs ticks ¹	3/4 fl oz	1 qt	Thoroughly drench mound and surrounding areas to a 2 foot diameter. For best results, apply in cool weather, 65 to 80°F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness. 3. Mosquitoes coming to rest on areas treated for control of turf pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions. 4. For sod webworms , delay watering or mowing the treated area for 12 to 24 hours after treatment.
European crane fly	1 fl oz	1 1/2 qt	
turfgrass weevil (<i>Hyperodes</i>) ¹	1 1/2 fl oz	2 qt	1. Spray suspected problem areas in mid-April and again in mid-May, or as recommended by your local agricultural extension service specialist.
white grubs ¹ (black turfgrass ataenius) (European chafer) (southern masked chafer) (Japanese beetle larvae)	1 1/2 - 3 fl oz	2 qt - 1 gal	1. For white grubs , spray when grubs are young and actively feeding near the soil surface, usually during late July and August or as recommended by your local agricultural extension service specialist. Immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.
bluegrass billbugs ¹	3/4 - 3 fl oz	1 qt - 1 gal	1. For bluegrass billbugs , spray early in the season when adults first appear. Repeat as needed.

† Superscripts refer to "Specific Directions".

Pest†	Amount of PTI per		Specific Directions
	1000 sq ft	Acre	
Mole crickets ¹			1. For Mole crickets , apply through high pressure injection application equipment such as the Cross Equipment Injectaspray™. Apply in a minimum spray volume of 50 gallons of water per acre. For best results, spray when young nymphs are active.

†Superscripts refer to "Specific Directions".

Pest Control on Outside Surfaces and Around Buildings

Apply Professional Turf Insecticide by application as a residual spray to outside surfaces of buildings including porches, window frames,

eaves, patios, garages, refuse dumps and other areas where pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness, but not more often than once every 7 days.

Pest†	Amount of PTI In Water to Make			Specific Directions
	1 gallon	10 gallons	50 gallons	
ants bees boxelder bugs carpenter ants clover mites cockroaches crickets earwigs elm leaf beetles (adults) firebrats fleas	For Perimeter Treatment¹			1. To help prevent infestation of buildings, treat a band of soil 6 - 10 ft wide around and adjacent to buildings, also the building foundation to a height of 2 - 3 ft, where pests are active and may find entrance. Use 4 - 16 fl oz of Professional Turf Insecticide per 50 gal of water and apply as a coarse spray at the rate of about 10 gal spray mixture per 1,000 sq ft to thoroughly and uniformly wet the band area.
	1/12 - 1/3 fl oz	3/4 - 3 fl oz	4 - 16 fl oz	

†Superscripts refer to "Specific Directions".

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Pest	Amount of PTI In Water to Make			Specific Directions
	1 gallon	3 gallons	100 gallons	
flies hornets millipedes mosquitoes pillbugs scorpions ² silverfish sowbugs spiders springtails ticks wasps yellowjackets	For Perimeter Treatment¹			2. For scorpions, remove accumulations of lumber, firewood, and other materials which serve as insect harborage sites. Make a thorough perimeter treatment around the structure using directions in (1) above.
	1/12 - 1/3 fl oz	3/4 - 3 fl oz	4 - 16 fl oz	
	On Outside Surfaces			
	1 1/3 fl oz	13 1/3 fl oz	2 qt	

¹Superscripts refer to "Specific Directions".

Ornamentals

Use Professional Turf Insecticide to treat flowers, shrubs, evergreens, vines, shade and flowering trees found to be infested with pests listed in the following table. Dilute Professional Turf Insecticide with water according to directions given in the table and apply using suitable hand- or power-operated spray equipment in a manner to provide complete and uniform coverage. For best results, apply a coarse spray to thoroughly wet both upper and lower leaf surfaces and infested limb and trunk areas. Attempt to penetrate dense foliage but avoid overspraying to the point of excessive runoff. Treat when

pests appear and repeat at 7 to 10 day intervals, if needed. **Do not use** on fruit and nut trees that will bear fruit within 1 year of application.

Consult your state agricultural experiment station or extension service specialist for application timing and other specific use information.

Note: Ornamentals: Professional Turf Insecticide has been tested on numerous ornamental plants without causing serious phytotoxicity. However, **do not use** on azaleas, camellias, poinsettias, rose bushes, or variegated ivy because of possible injury to these plants.

Pest†	Amount of PTI in Water to Make			Specific Directions
	1 gallon	3 gallons	100 gallons	
adeigids (cooley gall) (eastern spru. gall) (pine bark)	1/12 fl oz	1/4 fl oz	8 fl oz	1. For bagworms , treat when insects are in the crawler stage. 2. For effective control of leafrollers , spray should be applied before leaves are tightly rolled. 3. For effective control of maple leafcutter on maple trees, apply spray to larvae as cases are being formed. Do not treat sugar maple trees intended for maple syrup production. 4. For effective control of spider mites when large numbers of eggs are present, apply a second spray 3 - 5 days in the south or 7 - 10 days in the north after initial treatment to control newly-hatched nymphs. 5. Locate carpenter ant nest, if possible, and drench thoroughly. 6. For control of fall webworm , direct spray into web and immediately adjacent foliage.
ants (including foraging fire ants)	clover mite	puss caterpillar		
aphids (apple)	elm spanworm	rose chafer		
(chrysanthemum)	fall webworms ⁶	sawflies, exposed		
(cottonwood)	grasshoppers	(pine)		
(elm leaf)	green fruitworm	(pin oak)		
(peach)	hornworms	(redheaded)		
(rose)	jackpine budworm	sowbugs		
(spirea)	juniper webworm	spittlebugs		
(woolly)	katydids	spring elm caterpillar		
armyworms (fall)	lace bugs	spruce budworm		
(yellowstriped)	leafhoppers	tent caterpillars (eastern)		
bagworms ¹	leafrollers ²	(forest)		
boxelder bugs	maple leafcutter ³	(western)		
cankerworms	mites ⁴ (red spider)	thornbug		
carpenter ants ⁵	(southern red)	walnut caterpillar		
catalpa sphinx	oleander	western spruce budworm		
chiggers	caterpillar	whiteflies		
citrus mealybugs	orange tortrix	yellownecked caterpillar		
	periodical cicada			
	plant bugs			
	poplar tentmaker			
	Psviid ⁷			

†Superscripts refer to "Specific Directions".

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Pest†	Amount of PTI In Water to Make			Specific Directions
	1 gallon	3 gallons	100 gallons	
armyworms (beet) beetles ¹ (native elm bark) cutworms leafhoppers mahogany webworm mealybugs mimosa webworm moths (browntail) (Cypress tip)	(Douglas fir tussock) (European pine shoot) (gypsy) ² (holly bud) (Nantucket pine tip) (pandora) (pitch pine tip) (subtropical pine tip) (tussock)	oakworms (California) (orangestriped) (redhumped) redhumped caterpillar thrips (exposed) weevils (blackvine) ³ (yellow poplar) (pine reproduction)	1 pt	1. To reduce twig and branch feeding by bark beetles , applications should be made in the spring or early summer. 2. To kill migrating and invading gypsy moth larvae , treat trunks and foliage. 3. Blackvine weevils are night feeders. Late afternoon spraying will give control in some areas.
Pest†	Amount of PTI In Water to Make			Specific Directions
	1 gallon	3 gallons	100 gallons	
foliar feeding beetles ¹ (blister leaf) (elm leaf) (fiea) (fuller rose) (Japanese) (June) (willow leaf)	¹ / ₆ - ¹ / ₃ fl oz	¹ / ₂ - 1 fl oz	1 pt - 1 qt	1. For cottonwood leaf beetles , use Professional Turf Insecticide in water to control larvae and adults infesting cottonwoods. Make the treatment when field counts indicate damaging beetle populations are developing or present.

†Superscripts refer to "Specific Directions".

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Pest†	Amount of PTI in Water to Make			Specific Directions
	1 gallon	3 gallons	100 gallons	
borers ¹ clearwing moths (ash) (dogwood) (lesser peachtree) (lilac) (oak) (rhododendron) metallic wood (bronze birch) (flatheaded) appletree) (twolined chestnut) longhorned beetles (locust) (red oak)	1/3 fl oz	1 fl oz	1 qt	1. For borers, apply Professional Turf Insecticide to the trunks and lower limbs of trees and shrubs when the adults begin to emerge. Consult your state agricultural experiment station or extension service specialist for proper time to treat. Apply uniformly as a coarse, low-pressure spray. 2. For cranberry girdler larvae, apply 1 quart of Professional Turf Insecticide per acre. Direct spray at the base of tree using 50 gallons of water per acre. Irrigate immediately after application for soil penetration of 1 - 2 inches. Treat after egg laying during the summer.
		cranberry girdler larvae ² leafminers needleminers (Jeffrey pine) (lodgepole pine) (spruce) scale crawlers (cottoncushion) (cottony maple) (Euonymus) (Fletcher) (Florida wax) (golden oak) (hemispherical)	(lecanum) (magnolia) (oak kermes) (oystershell) (pine needle) (San Jose) (tea) (white birch)	
Pest†	Amount of PTI in Water to Make			Specific Directions
	1 gallon	3 gallons	100 gallons	
borers (cottonwood) (peachtree) ¹	1 fl oz	3 fl oz	3 qt	1. For peachtree borers, apply Professional Turf Insecticide in water to flowering trees and shrubs of the genus <i>Prunus</i> as a trunk spray before newly-hatched larvae enter the trees. Apply as a coarse, low-pressure spray. Thoroughly wet all bark areas from ground level to scaffold limbs.

† Superscripts refer to "Specific Directions".

Pest [†]	Amount of PTI In Water to Make			Specific Directions
	1 gallon	3 gallons	100 gallons	
beetles ¹ (cottonwood leaf) (elm leaf) (flea) (fuller rose) (native elm bark) ² (willow leaf)	1 1/3 fl oz	4 fl oz	1 gal	<p>1. For preventive treatment, apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees. For remedial treatment, apply the spray to the main trunk of infested trees or logs when damage occurs but before adult beetles begin to emerge.</p> <p>2. To prevent native elm bark beetles from overwintering in uninfested trees, apply Professional Turf Insecticide in water to the bottom 9 ft of the trunk. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right to the base of the root flare. Application can be made with either a backpack mistblower or a hydraulic pressure sprayer from spring through to early fall.</p>
wood infesting beetles ¹ (Ambrosia) (Anobiidae) (black turpentine) (European elm bark) (Japanese) (June) (southern pine) (spruce)	2 2/3 fl oz	8 fl oz	2 gal	<p>1. For preventive treatment, apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees.</p> <p>For remedial treatment, apply the spray to the main trunk of infested trees when damage occurs but before adult beetles begin to emerge.</p>

[†] Superscripts refer to "Specific Directions".

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Dormant Spray (Tree Pests)

Use Professional Turf Insecticide as a dormant or delayed dormant spray at the rates indicated to control the listed insects. Spray the entire tree to dampen using suitable ground spray equipment. Use the higher dosage of

Professional Turf Insecticide for severe infestations. Use oil as recommended by your state agricultural experiment station or extension service specialist.

Restrictions: Make only one application during the dormant season.

Pest	Amount of PTI In Water to Make			Specific Directions
	1 gallon	3 gallons	100 gallons	
aphids (mealy plum) (rosy apple) (woolly apple) borer (peach twig) cutworms (climbing) leafrollers (pandemis) pear psylla adults plant bugs scale (San Jose)	1/12 - 1/6 fl oz	1/4 - 1/2 fl oz	1/2 - 1 pt	Tank mix with 1 - 2 gallons of petroleum spray oil recommended for dormant use in 100 gallons of water.

Warranty Disclaimer

DowElanco 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, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by Buyer.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

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

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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