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Systems Integration Group, Inc.

PM, 03

4816-688

4/12/99

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Ms. Sharon Johnston
AgrEvo Environmental Health
95 Chestnut Road
Montvale, NJ 07645

APR 12 1999

Dear Ms. Johnston:

Subject: Amendment - alternative text for outdoor use
Permanone Multi-Purpose 10% E.C.
EPA Registration No. 4816-688
Your Submission Dated January 7, 1999

The product referred to above will be acceptable for registration under FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below:

a. On the front panel add a separate bullet "For Use on Livestock: Cattle (Beef and Dairy), Goats, Sheep, Swine, Horses and Poultry". This change should be made to the master label.

b. Delete the paragraph beginning " For maximum effectiveness xxx etc." since this statement is for indoor use.

3. Submit two (2) copies of your final printed labeling before you release the product for shipment.

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.

Sincerely,

George T. LaRocca
Product Manager (13)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

Master label

PERMANONE® MULTI-PURPOSE 10% E.C.

- **RECOMMENDED FOR AGRICULTURAL/COMMERCIAL USE**
- **BROAD SPECTRUM MULTI-USE INSECTICIDE**
- **QUICK KNOCKDOWN**
- *For Use Outdoors and in Homes, Kennels, and Non-Food Areas of Commercial Buildings, Institutions, Warehouses, Theaters, Office Buildings, Schools, Motels, Hotels, Restaurants and Food/Feed Processing Establishments*
- *For Control of Fleas, Brown Dog Ticks on Premises and on Dogs*
- *Residually Controls Fleas and Ticks on Dogs for 35 Days*
- *Aids in Control of Ticks on Dogs for an Additional 2 Weeks*

ACTIVE INGREDIENT:

*Permethrin 10.0%
†OTHER INGREDIENTS: 90.0%
100.0%

*Cis/trans ratio: Max. 65% (+/-) trans and min. 35% (+/-) cis.

†Contains Petroleum Distillates

PERMANONE - Registered Trademark of AgrEvo Environmental Health, Inc.

EPA Reg. No. 4816-688

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN WARNING

FIRST AID

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED: Contact a Physician or Poison Control Center immediately. Drink promptly a large quantity of egg whites, gelatin solution, or if, these are not available, large quantities of water. Avoid alcohol. Do not induce vomiting unless under a physician's care. This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.

IF INHALED: Remove person to fresh air. Apply artificial respiration if indicated. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

NOTE TO PHYSICIAN: Do not administer or instill milk, cream or other substances containing vegetable or animal fats which enhance absorption of lipophilic substances.

See Side Panel For Additional
Precautionary Statements.

ACCEPTED
with COMMENTS
in EPA Letter Dated

NET CONTENTS:

APR 12 1999

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
Q688s 010698In

4816-688

CODE 72662

READ ENTIRE LABEL BEFORE EACH USE

{Alternate Text for labels with pet uses: For Pet Use:
Use Only on Dogs}

IN CASE OF MEDICAL EMERGENCIES OR HEALTH
AND SAFETY INQUIRIES, OR IN CASE OF FIRE,
LEAKING OR DAMAGED CONTAINERS, INFORMA-
TION MAY BE OBTAINED BY CALLING 1-800-XXX-
XXXX.

FOR PRODUCT INFORMATION, CALL TOLL-FREE:
1-800-XXX-XXXX.

PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals

WARNING

Causes skin irritation and moderate eye injury. Do not get on skin or on clothing. Harmful if inhaled. Avoid breathing vapor or spray mist and contact with eyes. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

{Alternate Text for Labels with Indoor Uses: Wear full-faced gas mask with canister type recommended for general insecticide protection for applying indoors as a space spray or fog.}

{Alternate Text for Labels with Pet Uses: Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using any pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.}

Environmental Hazards

This product is highly toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when wind speeds exceed 10 mph. Do not contaminate water when disposing of equipment washwaters. Shrimp and crab may be killed if application rates recommended on this label are exceeded. Use with caution where these are important resources. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

Physical & Chemical Hazards

Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

DIRECTIONS FOR USE

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

To prepare dilutions, the concentrate should first be stirred or agitated well. Add the required amount of concentrate to water or oil and blend thoroughly. Do not hold dilutions for more than 24 hours.

For maximum effectiveness, a combination of localized application and space treatment is recommended. Remove pets, birds and cover fish aquaria before spraying.

{Alternate Text For labels with Indoor Uses: Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared food is served such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed.}

{Alternate Text for Labels with Indoor Uses: NON FOOD/FEED AREAS include (but are not limited to) garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).}

{Alternate Text for Labels with Indoor Uses: Do not apply to classrooms when in use. Do not apply this product in patient rooms or in any rooms when occupied by the elderly or infirm.}

Do not allow spray treatment to contaminate pasture land, cropland, poultry ranges or water supplies. Do not use on crops used for food, forage or pasture.

INDOOR USE AREAS

- | | |
|-----------------|---------------------|
| Ceries | Meat Packing Plants |
| Beverage Plants | Motels |
| Canneries | Office Buildings |

- | | |
|-------------------------------|----------------|
| Flour Mills | Railroad Cars |
| Grain Elevators | Restaurants |
| Granaries | Schools |
| Homes | Ships' Holds |
| Hospitals (non-patient rooms) | Supermarkets |
| Hotels | Truck Trailers |
| Industrial Installations | Warehouses |
| Kennels | |

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
Pesticide Storage And Spill Procedures: Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.
Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.
Container Disposal: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.
CONTAINERS ONE GALLON AND SMALLER: Do not reuse container. Wrap container in several layers of newspaper and discard in trash.
CONTAINERS LARGER THAN ONE GALLON: Metal Containers - 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. Plastic containers - Triple rinse or equivalent, then offer for recycling or reconditioning, or 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. Glass Containers - Triple rinse or equivalent, then dispose of in a sanitary landfill or by other approved state and local procedures.
CONTAINER DISPOSAL FOR RETURNABLE CONTAINERS:

SEE REVERSE FOR SPECIFIC USE INSTRUCTIONS

NOTICE: Buyer assumes all responsibility for safety and use

Best Available copy

4098

APPLICATION SITES	PESTS CONTROLLED	USE DIRECTIONS	DILUENT	DILUTION RATE	APPLICATION RATE	DOSE RATE
AS SURFACE SPRAY Batteries, Beverage Plants, Canneries, Flour Mills, Food Processing Plants, Grain Elevators, Granaries, Homes, Hospitals, Hotels, Industrial Installations, Kennels, Meat Packaging Plants, Motels, Office Buildings, Railroad Cars, Restaurants, Schools, Ships, Holds, Supermarkets, Truck Trailers and Warehouses.	Cockroaches, Waterbugs, Palmetto Bugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Millipedes, Centipedes, Sowbugs, Pillbugs, Clover Mites, Cheese Mites, Canary Weevils, Rice Weevils, Confused Flour Beetles, Red Rust Flour Beetles, Sawtoothed Grain Beetles, Cigarette Beetles, Drugstore Beetles, Meal worms, Grain Mites and Cadellies.	For initial clean up of severe insect infestations: Use a good sprayer adjusted to deliver a coarse wet spray. Direct the spray into hiding places, cracks and crevices, under pallets, around containers of stored foods, around the base of machinery and behind shelves and drawers. Spray bookcases for Silverfish. Spray ant trails, nests and points of entry. For normal infestations: Use a good sprayer adjusted to deliver a coarse wet spray. Direct the spray into the hiding places, cracks and crevices, under pallets, around containers of stored foods, around the base of machinery and behind shelves and drawers. Spray bookcases for Silverfish. Spray ant trails, nests and points of entry. Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, closets and infested area of shelving. Repeat treatment as necessary. Spray mattresses lightly particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings, floors. Allow all treated articles to thoroughly dry before use. Repeat treatment as needed. Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and localized areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. ON DOGS: To control fleas, ticks AS A SPRAY - Start spraying diluted product at the tail, moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and underbody. While spraying, fluff the hair so that the spray wets thoroughly. Do not spray into eyes and face. Avoid contact with genitalia. Repeat application every two weeks if necessary. AS A DIP - Wet the dog with water before treatment. Sponge, dip or pour diluted product on the dog until its fur and skin are thoroughly wet, making sure that the animal's entire body is treated, including the legs and underbody. Repeat application every two weeks if necessary. Do not treat the dog's face. Treat surfaces using coarse wet spray. Spray to run off.	Water	1 part concentrate in 10 parts water (13 fl. ounces per gallon)	1 gallon to 750 square feet of surface	
	Carpet Beetles		Water	From 1 to 2 parts concentrate to 40 parts water (3.25-6.50 fl. ounces per gallon)	1 gallon to 750 square feet of surface	
	Bedbugs		Water	1 part concentrate to 20 parts water (6.5 fl. ounces per gallon)		
	Fleas and Ticks (Adults and Larvae)		Water	1 part concentrate to 20 parts water (6.5 fl. ounces per gallon)		
			Water	From 1 to 2 parts concentrate to 40 parts water (3.25-6.50 fl. ounces per gallon)		
			Water	1 to 1.5 parts concentrate to 40 parts water (3.25-6.50 fl. ounces per gallon)		
	Mosquitoes, Wasps, Gnats, Skippers		Water	1 part concentrate in 20 parts water (6.5 fl. ounces per 1 gallon of water)		1 gal. per 100 birds.
	Horn Flies, House Flies, Mosquitoes, and Gnats		Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Stable Flies, Horse Flies and Deer		Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Face Flies		Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Lice (including Poultry Lice), North-ern Fowl Mites, Mange		Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Bedbugs and Mites in poultry houses		Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Sheep "tick" or ked		Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Fleas on livestock (to kill and to protect against reinfestation)		Water	1 part concentrate in 20 parts water (6.5 fl. ounces per gallon)		
	Horn Flies, Face Flies, Stable Flies		Water	1 part concentrate in 20 parts water (6.5 fl. ounces per gallon)		
			Water	1 pint to 10 gal. diesel oil		

Best Available copy

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APPLICATION SITES	PESTS CONTROLLED	USE DIRECTIONS	DILUENT	DILUTION RATE	APPLICATION RATE	DOSE RATE
ASA SPACE SPRAY LIVESTOCK PREMISES: Barns Milking Parlors, Milk Rooms, Dairies, Poultry Houses, Swine and Livestock Housing	Flies, Mosquitoes and Gnats	Apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist, using about 2 ounces per 1000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. Vacate the treated area and ventilate before reoccupying. Repeat treatment as necessary.	Water	1 part concentrate in 20 parts water (6.5 fl. ounces per gallon)		
Batteries, Beverage Plants, Canneries, Flour Mills, Food Processing Plants, Granaries, Homes, Hospitals, Hotels, Industrial Installations, Kennels, Meat Packaging Plants, Motels, Office Buildings, Railroad Cars, Restaurants, Schools, Ships' Holds, Supermarkets, Truck Trailers, Warehouses.	House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Blackflies, Small Flying Moths.	Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Closed doors and windows and shut off ventilating systems. When using an oil dilution for space spraying, extinguish all flames and pilot lights when applying. For rapid control of Houseflies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Blackflies, Small Flying Moths, direct spray at an upward angle distributing it uniformly through the entire area at a rate of 1 ounce per 1000 cubic feet of space. Keep area closed for at least 10 minutes. Vacate areas after treatment and ventilate and sweep up dead insects before reoccupying. For rapid kill of exposed or accessible stages of other insects named on this label, apply using conventional, mechanical or compressed air equipment (non-thermal) following directions for space spraying.	Oil or Water	1 part concentrate in 20 parts oil or water (6.5 fl. ounces per gallon)	1 ounce per 1000 cubic feet	
Animal Houses, Corrals, Drive-in Restaurants, Drive-in Theaters, Feedlots, Gardens, Golf Courses, Parks, Playgrounds, Recreational Areas, Urban Areas, Zoos, Etc.	Mosquitoes, Gnats, biting and non-biting Midges, Blackflies, and other biting flies.	Apply using vehicle mounted ULV equipment to create an insecticidal swath. For best results apply when there is a light breeze (i.e. about 5 mph) and apply in direction of breeze to obtain maximum swath and better distribution. Do not apply if winds exceed 10 mph. The target dose rate to be applied is up to 0.007 lb. a.i. per acre. This can be achieved under different conditions by altering the flow of insecticide from the equipment and/or the speed to the vehicle. Apply 3.5 to 7.0 fluid ounces per minute at vehicle speeds of 5-10 miles per hour using swath widths of 150-300 feet as appropriate to local conditions. At higher vehicle speeds, flow rates should be increased proportionately to achieve the target dose rate. Not to be used within 100 feet (30 meters) of lakes and streams. In treatment of corrals, feed lots and swine lots, cover any exposed drinking water, drinking fountains and animal feed before application. Allow 24 hours before retreating. Do not apply more than once in a 24 hour period.	Oil or Water	1 part concentrate oil solvent, or at proportional oil dilutions calculated on the basis of vehicle speed and swath width to achieve the target dose.	Dependent on swath width, flow rate and speed of vehicle.	Up to 0.007 lbs of active ingredient per acre.
BARRIER SPRAY Perimeter of residential yards, public facilities, paths and recreational areas.	As an aid in reducing mosquito annoyance. To kill and control biting and non-biting midges, deer flies.	Apply when walking at a speed of approximately 2 mph or a swath of 50 feet treating approximately 0.2 acre/minute.	Oil or Water	1 part concentrate to 1 part of a suitable diluent, or at proportional dilutions calculated on the basis of applicator speed and swath width to achieve the target dose.	Apply 17.5 fluid ounces of diluted material per acre.	Approx. 0.1 lb per acre.

HOSE-END SPRAYER: To control listed insects, shake well before applying. Connect nozzle to hose, remove cap, insert dip tube and screw bottle onto nozzle. Turn on water at the tap. When ready to treat, place finger over the hole on right side of nozzle and the liquid will mix automatically at the proper ratio. Apply to surfaces in dairies, barns, feed lots, stable, poultry houses, swine and livestock housing to control house flies, stable flies and other nuisance breeding flies. Also aids in control of Cockroaches, Ants, Spiders, Mosquitoes, Crickets and lice flies. Walk and spray at a steady pace. Spray walls and surfaces thoroughly but do not allow runoff to occur. Treat no more than once every two weeks. Do not contaminate animal feed or water by spray.

Agri-vo Environmental, Inc.
95 Chestnut Ridge Road
Montvale, NJ 07645

Outdoor use label only

leaf 8

PERMANONE® 10% E.C.

- * RECOMMENDED FOR AGRICULTURAL/COMMERCIAL USE
- * BROAD SPECTRUM MULTI-USE INSECTICIDE
- * QUICK KNOCKDOWN
- * FOR USE OUTDOORS

ACTIVE INGREDIENT:

*Permethrin: 10.0%

+OTHER INGREDIENTS: 90.0%
100.0%

*Cis/trans ratio: Max. 65% (+/-) trans and min. 35% (+/-) cis.

†Contains Petroleum Distillates

PERMANONE - Registered Trademark of AgrEvo Environmental Health, Inc.

EPA Reg. No. 4816-688

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

WARNING

FIRST AID

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF SWALLOWED: Contact a Physician or Poison Control Center immediately. Drink promptly a large quantity of egg whites, gelatin solution, or if, these are not available, large quantities of water. Avoid alcohol. Do not induce vomiting unless under a physician's care. This product contains petroleum distillate. Vomiting may cause aspiration pneumonia.

IF INHALED: Remove person to fresh air. Apply artificial respiration if indicated. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

NOTE TO PHYSICIAN: Do not administer or instill milk, cream or other substances containing vegetable or animal fats which enhance absorption of lipophilic substances.

See Side Panel For Additional
Precautionary Statements.

NET CONTENTS:

IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND
SAFETY INQUIRIES, OR IN CASE OF FIRE, LEAKING OR
DAMAGED CONTAINERS, INFORMATION MAY BE
OBTAINED BY CALLING 1-800-471-0660.

FOR PRODUCT INFORMATION,
CALL TOLL-FREE 1-800-331-2867

CODE 72662

PRECAUTIONARY STATEMENTS

Hazards To Humans & Domestic Animals

WARNING

Causes skin irritation and moderate eye injury. Do not get on skin or on clothing. Harmful if inhaled. Avoid breathing vapor or spray mist and contact with eyes. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Environmental Hazards

This product is highly toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when wind speeds exceed 10 mph. Do not contaminate water when disposing of equipment washwaters. Shrimp and crab may be killed if application rates recommended on this label are exceeded. Use with caution where these are important resources. This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply this product or allow drift when bees are actively visiting the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

Physical & Chemical Hazards

Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

DIRECTIONS FOR USE

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

To prepare dilutions, the concentrate should first be stirred or agitated well. Add the required amount of concentrate to water or oil and blend thoroughly. Do not hold dilutions for more than 24 hours.

For maximum effectiveness, a combination of localized application and space treatment is recommended. Remove pets, birds and cover fish aquaria before spraying.

Do not allow spray treatment to contaminate pasture land, crop land, poultry ranges or water supplies. Do not use on crops used for food, forage or pasture.

SEE REVERSE FOR SPECIFIC USE INSTRUCTIONS

STORAGE AND DISPOSAL

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

Pesticide Storage And Spill Procedures: Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc. Dispose of with chemical waste.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

CONTAINERS ONE GALLON AND SMALLER: Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

CONTAINERS LARGER THAN ONE GALLON: Metal Containers - 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. Plastic containers - Triple rinse or equivalent, then offer for recycling or reconditioning, or 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. Glass Containers - Triple rinse or equivalent, then dispose of in a sanitary landfill or by other approved state and local procedures.

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

APPLICATION SITES	PESTS CONTROLLED	USE DIRECTIONS	DILUENT	DILUTION RATE	APPLICATION RATE	DOSE RATE
LIVESTOCK SPRAY: Dairy & Beef Cattle, Sheep, Goats, Swine, Horses and Poultry. (For swine, do not ship animals for slaughter within 5 days of last treatment.)	Horn Flies, House Flies, Mosquitoes, and Gnats	Apply to wet the hair thoroughly, with particular attention to topline, underline, flanks, withers and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.	Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Stable Flies, Horse Flies and Deer	Apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs, flanks, barrel, topline and other body areas commonly attacked by these flies. Repeat treatment as needed.	Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Face Flies	Apply using spray which produces large wetting droplets. Apply to the face of the animal in the morning before release to pasture. Apply sufficiently to wet the face but not more than 1.5 ounces per animal. Repeat daily as needed.	Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Sheep "tick" or ked	Thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.	Water	1 part concentrate in 100 parts water (1.3 fl. ounces per gallon)		
	Fleas on Livestock (To kill and to protect against reinfestation)	Wet the animal by dipping or spraying.	Water	1 part concentrate in 20 parts water (6.5 fl. ounces per gallon)		
AS A SPACE SPRAY: Animal Houses, Corrals, Drive-in theaters, Feedlots, Gardens, Golf Courses, Parks, Playgrounds, Recreational Areas, Urban Areas, Zoos, Etc.	Mosquitoes, Gnats, biting and non-biting Midges, Black Flies, and other biting Flies.	<p>Apply using vehicle mounted ULV equipment to create an insecticidal swath. For best results apply when there is a light breeze (ie. about 5 mph) and apply in direction of breeze to obtain maximum swath and better distribution. Do not apply if winds exceed 10 mph.</p> <p>The target dose rate to be applied is up to 0.007 lb. a.i. per acre. This can be achieved under different conditions by altering the flow of insecticide from the equipment and/or the speed to the vehicle. Apply 3.5 to 7.0 fluid ounces per minute at vehicle speeds of 5-10 miles per hour using swath widths of 150-300 feet as appropriate to local conditions.</p> <p>At higher vehicle speeds, flow rates should be increased proportionately to achieve the target dose rate.</p> <p>Not to be used within 100 feet (30 meters) of lakes and streams.</p> <p>In treatment of corrals, feed lots and swine lots, cover any exposed drinking water, drinking fountains and animal feed before application.</p> <p>Allow 24 hours before retreating. Do not apply more than once in a 24 hour period.</p>	Oil or Water	1 part concentrate with 1 part suitable oil solvent, or at proportional oil dilutions calculated on the basis of vehicle speed and swath width to achieve the target dose.	Dependent on swath width, flow rate and speed of vehicle.	Up to 0.007 lbs of active ingredient per acre.
BARRIER SPRAY Perimeter of residential yards, public facilities, paths and recreational areas.	As an aid in reducing mosquito annoyance. To kill and control biting and non-biting midges, deer flies	Apply when walking at a speed of approximately 2 mph or a swath of 50 feet treating approximately 0.2 acre/minute.	Oil or Water	1 part concentrate to 1 part of a suitable diluent, or at proportional dilutions calculated on the basis of applicator speed and swath width to achieve the target dose.	Apply 17.5 fluid ounces of diluted material per acre.	Approx. 0.1 lb per acre.

HOSE-END SPRAYER: To control listed insects, shake well before applying. Connect nozzle to hose; remove cap, insert dip tube and screw bottle onto nozzle. Turn on water at the tap. When ready to treat, place finger over the hole on right side of nozzle and the liquid will mix automatically at the proper ratio. Apply to surfaces in dairies, barns, feed lots, stable, poultry houses, swine and livestock housing; to control House Flies, Stable Flies and other manure breeding flies. Also aids in control of Cockroaches, Ants, Spiders, Mosquitoes, Crickets and face Flies. Walk and spray at a steady pace. Spray walls and surfaces thoroughly but do not allow runoff to occur. Treat no more than once every two weeks. Do not contaminate animal feed or water by spray.

AgEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645