

Y•TEX[®]

CORPORATION

1825 Big Horn Avenue, Cody, Wyoming 82414

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DESCRIPTION:

GardStar 40% EC Livestock and Premise Insecticide is a non-restricted use, emulsifiable concentrate formulation containing permethrin. This synthetic pyrethroid is highly active against many arthropod pests both as an insecticide and as a repellent on nearly all species of livestock, horses, dogs and their premises.

EFFECTIVENESS:

GardStar 40% EC is active against all major ectoparasites of livestock. In addition, it is effective as a residual premise treatment against house flies, stable flies, fire ants, ticks (including deer ticks) and many other nuisance pests.

PACKAGING:

GardStar 40% EC is available in a 4 fl. oz. (118 ml) bottle with a convenient 1/2 fl. oz. (15 ml) measuring chamber on top and in a 1 qt. (946 ml) bottle.

PRODUCT ADVANTAGES:

1. One of the most complete use labels for all dairy and beef cattle, sheep, goats, swine, poultry, horses, dogs and their premises.
2. Makes highly effective mound drench for long-term odor-free control of imported fire ants.
3. No withdrawal time for meat and milk when used on cattle, goats and sheep.
4. Highly concentrated, one 4 fl. oz. bottle will treat one of the following:
 - a. 393 cows for control of horn flies, lice and mange
 - b. 196 hogs for control of lice and mange
 - c. 2,360 chickens for control of mites and lice
 - d. 13,111 sq. ft. of wall area for control of house flies and other nuisance pests inside livestock premises
5. Can be used in all areas of dairy barns including milk rooms.
6. Easy to measure and once mixed does not require further agitation.
7. Works well in low pressure pump-up sprayers or high pressure power sprayers.
8. Can be mixed with oil or water for premise sprays.
9. Can be mixed with oil for back rubber use.
10. Designed to be stable for up to 1 year when diluted to 0.5% in water unlike other permethrin based products.

Y•TEX[®]

GardStar[®]

40% EC

Livestock and Premise Insecticide



For convenient, multi-species control of pests both on the animal and within its environment.

ACTIVE INGREDIENT:

Permethrin*	40.00%
(3-Phenoxyphenyl)methyl(±)cis/trans 3-(2,2-dichloroethenyl)-2,2- dimethylcyclopropanecarboxylate.	
OTHER INGREDIENTS:	60.00%
TOTAL:	100.00%

* Cis/trans ratio: Min. 35%(±)cis and max. 65%(±)trans.

GardStar—Registered trademark of Y-Tex Corporation

Y-TEX GardStar® 40% EC

DIRECTIONS FOR USE

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

Livestock Use Directions


Animal	Target Species	Dilute & Use	Application Rate
Lactating and Non-Lactating Dairy Cattle and Goats, Beef Cattle and Sheep	Horn flies, Face flies, Stable flies, House flies, Horse flies, Deer flies, Black flies, Mosquitoes, Eye gnats, Mange mites, Scabies mites, Ticks, Lice, Sheep keds (1-2 weeks residual control of horn flies)	4 fl. oz. (118ml) to 25 gals. water. (treats 50-100) 0.05% Active Ingredient (AI) High pressure spray	1-2 qt. of coarse spray per animal over whole body surface. For Mange, Scabies, Ticks and Lice, thoroughly wet animal. Repeat application 10-14 days for Mites and Lice.
	Horn flies only (for 1 week residual control)	4 fl. oz. (118 ml) to 50 gals. water. (treats 200) 0.025% AI High pressure spray	1 qt. of coarse spray per animal
	Horn flies, Face flies, Stable flies, Ear ticks and Lice (2-3 weeks residual control of horn flies)	4 fl. oz. (118ml) to 2 1/2 gals. water. (treats 64-80) 0.5% AI Low pressure spray (Hand pump sprayer)	For fly and lice control, spray midline from face to tailhead to point of runoff (4-5 fl. oz.) (118-148 ml). For ear tick control, spray directly into each ear 0.50 fl. oz. (15 ml) each.
	Horn flies, Face flies, Stable flies (Season long control of horn flies)	4 fl. oz. (118ml) to 10 gals. diesel oil or suitable mineral oil. 0.125% AI Backrubber, Self oiler	Keep rubbing device charged. Results improved by daily forced use.
Poultry	Northern fowl mites, Lice	1-4 fl. oz. (30 - 118ml) to 3.75 gals. water. (treats 375) 0.08 - 0.33% AI High pressure spray	1 gal. of coarse spray per 100 birds, paying particular attention to vent area.
Swine (Allow 5 days between last treatment and slaughter)	Lice, Mange	4 fl. oz. (118ml) to 25 gals. water. (treats 50-100) 0.05% AI Sprayer or dip	Thoroughly wet or dip animals including ears. For Mange, spray pen floors, sides and bedding. Repeat at 14 days.
Horses and Dogs (Do not use on cats)	Horn flies, Face flies, Stable flies, House flies, Horse flies, Black flies, Mosquitoes, Eye gnats, Mange mites, Scabies mites, Ticks, Lice, Fleas	0.25 fl. oz. (7.5ml) to 1 pt. water. 0.625% AI Low pressure spray	1-2 fl. oz. (30-60ml) spray per animal. Spot treat back, face, legs, tail and ears.
		0.25 fl. oz. (7.5ml) to 1.25 gals. water. 0.0625% AI Dip wash	Thoroughly wet animal to skin with sponge or rag. Let drip dry.
		4 fl. oz. (118ml) to 20 gals. water. 0.0625% AI Dip (dogs only)	Make sure all areas are soaked to skin. Let drip dry on animal. Do not rinse off.

Premise Use Directions

Apply To	Target Species	Dilute & Use	Application Rate
Premises - in and around Horse, Beef, Dairy, Swine, Sheep and Poultry Premises, Animal Hospitals, Pens and Kennels and Outside Meat and Honey Processing Premises**	House flies, Stable flies, Little house flies (<i>Fannia spp.</i>). Aids in control of Cockroaches, Ants, Spiders, Mosquitoes and Crickets	4 fl. oz. (118ml) to 10 gals. water. 0.125% AI Surface spray	Spray surfaces until wet or 1 gal. per 750-1000 sq. ft. (Do Not Use in Milk Rooms)
		1.5 fl. oz. (45ml) to 1 gal. water. 0.469% AI Space spray	Apply as fog or fine mist until area is filled with mist, using 2 fl. oz. (60ml) per 1000 cubic ft. (Can be used in Milk Rooms)
		4 fl. oz. (118ml) to 10 gals. mineral oil. 0.125% AI Overhead space spray system	4 fl. oz. (118ml) spray per 1000 cu. ft. of air space. (Do Not Use in Milk Rooms)



Premise Use Directions (CONTINUED)

Apply To	Target Species	Dilute & Use	Application Rate
Premises—in and around Horse, Beef, Dairy, Swine, Sheep and Poultry Premises, Animal Hospitals, Pens and Kennels and Outside Meat and Honey Processing premises**	Temporary reduction of annoyance from pests mentioned on previous page	1.5 fl. oz. (45ml) to 1 gal. water. 0.469% AI Outdoor space spray	Fill area with mist. Apply while the air is still and avoid wetting foliage.
	Bed bugs and Chicken mites	4 fl. oz. (118ml) to 10 gals. water. For severe infestation it is permissible to use 4 fl. oz. to 4 gals. Sprayer	Spray crevices of roost poles, cracks in walls and cracks in nest and nest boxes.
	Ticks, including the Deer tick, and Fleas	3 fl. oz. (90ml) to 2 gals. water. 0.469% AI Indoor spray	Treat around windows, doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may occur. Apply until surface is wet but do not let runoff occur (approx. 1 gal. per 750-1000 sq. ft.).
		4 fl. oz. (118ml) to 100 gals. water. For longer residual, use up to 8 fl. oz. (236 ml) to 100 gals. water. 0.0125 - 0.025% AI Outdoor spray	Use enough finished spray to penetrate foliage, usually 50-100 gals. per acre. To prevent infestation of buildings, treat a band of vegetation 6-10 feet adjacent to the structure.
	Imported Fire Ants 	3 fl. oz. (90ml) to 1 gal. water. 0.938% AI Sprinkler can	Gently sprinkle 1 gal. over the surface of each mound. Thoroughly wet the mound and surrounding area to treat a 4 ft. diameter. For best results, apply in cool weather 65-80°F (early morning or late evening). Pressurized sprayers may disturb ants and cause migration reducing product effectiveness.
	For prevention of imported fire ant movement in-or out-of honey bee hives positioned on supports such as pallets	0.17 fl. oz. (5 ml) to 1 gal water. 0.05% AI Sprinkler can, hand held pump sprayer or other low pressure sprayer Soil drench	For pre-placement of apiary apply to ground surface 24-48 hours prior to hive support placement. Thoroughly wet ground area (1 gal. solution per 16 sq. ft. or 6 gal per 100 sq. ft.) to make a treated square large enough to place the support plus a 2 to 4 ft. treated buffer around the structure, such as a 10 sq. ft. area with a 4 sq. ft. pallet to be placed in the center. Retreat area prior to each season. Prior to moving support pallets onto trailer for transport, assure that no treated soil remains on pallet that may result in bees contacting treated surfaces during transport.
		3-4 fl. oz. (90-118 ml) to 10 gals. water. 0.1-0.13% AI Low pressure sprayer Surface spray	Apply to bottom pallet of two support pallets until surface is wet but do not let runoff occur (approx. 0.5 gal per pallet) and let dry before placing pallet supporting bee hives on top. Retreat pallets prior to each season. For transport, move only non-treated hive support pallet onto trailer. Leave treated (bottom) pallet on site. Properly discard or transport separately to new site.
	For aid in control of the Small Hive Beetle, <i>Aethina tumida</i>	0.17 fl. oz. (5 ml) to 1 gal. water. 0.05% AI Sprinkler can	For treatment of existing infestations, apply as soon as beetles or larvae are observed in or around the hive. Thoroughly wet ground in an area 18-24 inches wide in front of each hive (1 gal. per 6 hives). Apply spray in late evening after bees become inactive.
0.17 fl. oz. (5 ml) to 1 gal. water. 0.05% AI Sprinkler can, hand pump sprayer or other low pressure sprayer		For pre-placement cleanup of apiary, apply to entire ground surface 24-48 hrs. prior to hive placement.	

NOTE: Permethrin is highly toxic to bees and extreme caution must be taken to avoid contact by spray or spray drift with the bees, hive or any other surfaces that bees may contact. When hives are present, applications may only be made with a sprinkler can. Hand pump sprayers may only be used when hives are **not** present and only for pre-placement cleanup of apiary. Do not contaminate any water or food source that may be in the area or apply during windy conditions. For better soil penetration and improved efficacy, cut grass around hive prior to application.

****Do not apply dilutions for **premise treatment** directly on livestock or poultry. Ensure that feed and water are not contaminated by spray drift. For **space spraying**, do not remain in treated areas and ventilate the area before reoccupying. Animals should be removed from area prior to treatment. The use of any residual fly spray should be supplemented with proper manure management and general sanitation to reduce or eliminate fly breeding sites.**

NOTICE OF WARRANTY: To the extent consistent with applicable law, Y-TEX CORPORATION MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE, OR OTHERWISE, EXPRESSED OR IMPLIED concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label, and in any case, is limited to replacement of product only.



GardStar® 40% EC product information

PRECAUTIONARY STATEMENTS Hazards To Humans And Domestic Animals WARNING

May be fatal if swallowed. Avoid contact with skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators using ULV cold foggers or fog/mist generators in indoor spaces must wear:

- Coveralls over long-sleeved shirt and long pants;
- Chemical-resistant gloves made of barrier laminate, butyl rubber, nitrile rubber or viton;
- Chemical-resistant footwear plus socks, and
- Chemical-resistant headgear, if overhead exposure.

Applicators using ULV cold foggers and/or fog/mist generators in outdoor spaces must wear:

- Long-sleeve shirt and long pants,
- Shoes plus socks, and
- Chemical-resistant gloves made of barrier laminate, butyl rubber, nitrile rubber or viton.

All other mixers, loaders, applicators, and other handlers must wear:

- Long-sleeve shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves made of barrier laminate, butyl rubber, nitrile rubber or viton.
- Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate and for handlers performing animal dip applications.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. 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 when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water disposing of equipment wash waters.

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily absorbed to suspended soil particles), for several months or more after applications. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

READ ENTIRE LABEL BEFORE EACH USE

DIRECTIONS FOR USE

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

GENERAL PRECAUTIONS AND RESTRICTIONS

- For pet use – Use only on dogs.
 - Except when applying to dogs or livestock, do not enter or allow others to enter treated area until sprays have dried.
 - Except when applying to dogs or livestock, do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.
 - Except when applying to dogs or livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift.
 - Except when applying to dogs or livestock, only protected handlers may be in the area during application.
 - Do not breathe dust, vapors, or spray mist.
 - Not for use in outdoor residential misting systems.
 - When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- All outdoor applications** must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:
- (1) Treatment to soil or vegetation around structures;
 - (2) Applications to lawns, turf, and other vegetation;
 - (3) Applications to building foundations, up to a maximum height of 3 feet.
- Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications only.
- Application is prohibited directly into

GardStar® 40% EC product information

sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, or aquatic habitat can occur.

- Do not allow the product to enter any drain during or after application.
- * Do not use this or any other pesticide on sick, old or debilitated animals.
- Do not use on dogs under 4 months 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.

Directions for use in commercial animal premise automatic misting systems:

- Not for use in outdoor residential misting systems (indoor or outdoor).
- Do not apply this product in barns or stables where animals intended for slaughter or human consumption will be maintained.
- Do not apply when food, feed or

water is present.

- Do not apply directly to animals.
- When using this product, installers and service technicians must comply with the license, certification, or registration requirements of the state(s), tribe(s), or local authority(ies) where they are installed.
- When applying via a remote activation device, do not apply when people and pets are present. If possible, when applying via automatic timer, set the timing for application when people and pets are unlikely to be present.
- Direct nozzles to spray towards the target area and away from areas where people are typically present.
- Do not use in an evaporative cooling system.
- Do not use in misters located within 3 feet of air vents, air conditioner units, or windows.
- If used in a system with a reservoir tank for the end use dilution, the system reservoir tank must be locked. Securely attach the end use pesticide label and a dilution statement to the system reservoir

tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: this container holds ___ parts GardStar 40% EC Livestock and Premise Insecticide to ___ parts water.

- If used in a direct injection system, the pesticide container must be locked. Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve.
- This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of 4 fluid ounces per 1000 cubic feet or 10 gallons of diluted product.

PHYSICAL OR CHEMICAL HAZARDS - Combustible.

Do not use or store near heat or open flame.

KEEP OUT OF REACH OF CHILDREN WARNING

FIRST AID

IF SWALLOWED	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
NOTE TO PHYSICIAN Contains petroleum distillate – vomiting may cause aspiration pneumonia.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call Chem-Tel, Inc. at 1-800-255-3924. For product information, call 1-307-578-0210 (Y-TEX Corporation).	

GardStar® 40% EC product information

STORAGE AND DISPOSAL

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

Pesticide Storage And Spill

Procedures: Store upright at room temperature, preferably under lock and key. Avoid exposure to extreme temperatures. Post as a pesticide storage area. Always store pesticides in the original container. Store away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Place liquid formulations on lower shelves and dry formulations above. 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 wastes are acutely hazardous. To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING:

CONTAINERS 5 GALLONS OR SMALLER: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a rinse tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

Other Great Insecticide Products Available From Y-TEX Corporation:

BRUTE®

Pour-on for Cattle & Horses

- Advanced formulation for fly and lice control. Use on all ages of beef and dairy cattle (including lactating).
- No dilution necessary.
- One 16 fl. oz. bottle treats 32 head of 1000 lb. or larger animals; 1 gallon treats 252 head.
- Provides excellent control of flies on horses.

SwineGuard®

Pour-on for Swine

- Economical, longer-lasting control of Mange Mites and Lice.
- Aids in control of biting flies, including Mosquitoes.
- Ready to use – easy to measure and apply.

PYthon®

Dust Livestock Insecticide

- Controls horn flies, lice, ticks and keds.
- Aids in control of face flies, stable flies and other nuisance flies.
- Can be applied with high quality Y-TEX A-line dust bag or handy 2 lb. shaker canister.

GardStar®

Garden & Poultry Dust

- A multi-purpose insecticide for outdoor residential use.
- Broad spectrum and ready-to-use on vegetable and ornamental plants, poultry and swine.