



# BOVINOL<sup>®</sup>

## SUPER STOCK SPRAY

<b>ACTIVE INGREDIENTS:</b>	<b>By Wt.</b>
Pyrethrins .....	0.10%
*Piperonyl butoxide, technical .....	0.20%
N-octyl bicycloheptene dicarboximide .....	0.33%
**Di-n-propyl isocinchomeronate .....	0.20%
<b>INERT INGREDIENT***:</b> .....	<b>99.17%</b>
<b>TOTAL</b>	<b>100.00%</b>

\*Equivalent to 0.16% (butylcarbityl) (6-propylpiperonyl) ether, and 0.04% of related compounds.

\*\*MGK Repellent R-326

\*\*\*This product contains petroleum distillates.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal  
**STORAGE:** Store in safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Personnel should use clothing and equipment consistent with good pesticide handling.  
**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: Metal:** 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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

SEE SIDE PANELS FOR  
ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 34704-597

EPA EST. NO. \_\_\_\_\_

NET CONTENTS \_\_\_\_\_ GALLONS

FORMULATED FOR  
**PLATTE CHEMICAL CO.**

150 SO. MAIN STREET      FREMONT, NEBRASKA 68025

8206

01Y90

### READY TO USE DIRECTIONS FOR USE

**For Dairy Cattle Spraying:** To protect dairy stock from biting Flies, House Flies, Mosquitoes, and Gnats, as well as certain other flying pests, where barn foggers are not used, spray daily before milking, preferably in the barn to avoid wastage due to wind drift, using one ounce per head. Larger quantities may cause skin irritation or inhibit skin ventilation in hot weather. Spray lightly, but evenly and thoroughly over every part of the animal, with particular attention to the back, flanks, and legs—avoid udder and area around eyes. Do not soak the skin or wet the hide. Do not apply on calves. Do not blanket, brush, or curry the animals shortly after spraying, as this might increase the risk of skin irritation.

**For Barn Fogging:** To control House Flies, Stable Flies, Horn Flies, Mosquitoes, and Gnats, use approximately one ounce of BOVINOL Super Stock Spray for each 1000 cubic feet of space. Have cattle in barn before spraying. Keep doors and windows closed for at least 10 minutes. Sweep up and destroy all fallen flies. Follow recommendations of equipment manufacturer for proper positioning of the fogging machine.

**For Horses:** Spray lightly or sponge horses, using one ounce per adult animal, proportionately less for smaller animals. All parts of the animal's body should be covered, with special attention to shanks, legs, and shoulders. Apply till hair is moistened, but do not soak hide. Do not get the spray under any leather such as bridle, harness, or saddle, as the rubbing on leather is apt to produce irritation. Also, do not blanket, brush, or curry the animals shortly after spraying.

### CAUTION

Avoid contact with skin. Harmful if swallowed. If swallowed, call a physician immediately.

**COMBUSTIBLE:** Do not use or store near heat or open flame.

### PRECAUTIONS IN USING

Avoid contamination of milk and milk handling equipment. Avoid overspraying which will result in wetting animal's hide. Use according to directions.

### DIRECTIONS FOR USE

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

### NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use, but 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 or under abnormal conditions, or under conditions not reasonably foreseeable to the seller, and buyer assumes all risk of any such use.



# PESTRIN FOGGING SPRAY-CI

34704-584 H 17 1 17  
1/31/70

For Agricultural Use

— or —

To be applied only by or under the supervision of Pest Control Operators, members of Mosquito Abatement Districts or Public Health Organizations and other Trained Personnel responsible for Insect Control Programs.

33/4 x 5 3/4  
Booklet

For Indoor and Outdoor Insect Control  
For Use on Livestock

**ACTIVE INGREDIENTS:**

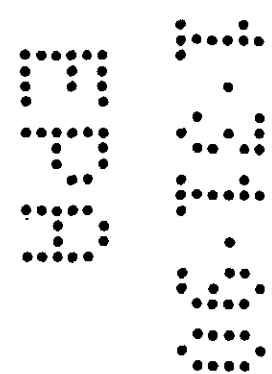
Pyrethrins .....	6.0%
Piperonyl butoxide, technical* .....	25.0%
<b>INERT INGREDIENTS:</b> .....	<u>70.0%</u>
	<b>TOTAL 100.0%</b>

\* Equivalent to 20.0% (Butylcarbityl) (6-propylpiperonyl) ether and 5.0% related compounds.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

EPA REG. NO. 34704-584

For information on this product, contact your local health department.



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed. Avoid breathing vapors or spray mist. For space spraying, wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (MESA) and the National Institute for Occupational Safety and Health (NIOSH) under the provisions of 30 CFR Part 11. Wear clean clothing that covers the body well.

Wash hands, arms and face with soap and water after handling and before eating or smoking. Wash all contaminated clothing with soap and HOT water before reuse.

Do not apply directly to food. Do not apply space spray while food processing is underway. The use of this product in edible product areas of food processing or food handling establishments should be confined to times when the plants or establishments are not in operation. Foods should be removed or covered during treatment. All food processing surfaces should be covered during treatment or thoroughly cleaned before using. After spraying in meat packing plants, bakeries and other food processing plants, wash all equipment, benches, shelving, etc., with potable water, where exposed food will be handled.

When using in animal housing areas, do not apply directly to food, feed supplements, water, related utensils or equipment. Wash teats of dairy animals before milking and nursing animals before young suckle. Do not apply directly to animals except as provided on this label. In zoos, avoid exposure of reptiles.

Remove pets, birds and cover fish aquaria before spraying.

**STATEMENTS OF PRACTICAL TREATMENT**

If swallowed: Call a physician or Poison Control Center. Gastric lavage is usually indicated. Do not induce vomiting unless other treatment is not available. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting, give two glasses of water and touch back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled: Assist respiration as needed.

If on skin: Wash with soap and water.

If in eyes: Flush thoroughly with water, holding eyelids open. Get medical attention.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not apply directly to water (except as directed). Do not contaminate water by cleaning of equipment or disposal of wastes.

**DIRECTIONS FOR USE**

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

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

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. **STORAGE:** Store in a cool, dry place. Keep container closed when not in use.

**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: Metal:** 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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**PREPARATION NOTES**

Warm this product to room temperature and mix well before each use. Keep sprayer unit clean to ensure proper delivery. Calibrate equipment often.

Use care to avoid staining or spotting of wallpaper, fabrics and similar materials. Direct application may injure plants or vegetation.

When computing total indoor volume to be treated by space spray, deduct the volume occupied by furnishings or other materials. Cover sensitive equipment such as data processing or office equipment.

**General:** This concentrate is designed for use undiluted in mechanical sprayers which give particles of aerosol size. It can also be diluted with refined kerosenes which meet Food Additive Regulation 21 CFR 172.884 and can be applied in fogging equipment that gives larger than aerosol particle size. It can also be diluted with oil specified above and applied as a contact spray. The pyrethrin concentration of dilutions recommended on this label can be determined from the following table:

1	100	100
2	50	50
3	33	33
4	25	25
5	20	20
6	17	17
7	14	14
8	12	12
9	11	11
10	10	10
11	9	9
12	8	8
13	7	7
14	6	6
15	5	5
16	4	4
17	3	3
18	2	2
19	1	1

Pyrethrin Concentration	Amount of This Product	Amount of Refined Kerosene
0.1%	1 part	49 parts
0.2%	1 part	24 parts
0.3%	1 part	15 2/3 parts
0.4%	1 part	11 1/3 parts
0.5%	1 part	9 parts
0.6%	1 part	7 1/3 parts

When a range of rates is recommended, use lower concentrations for light infestations and higher concentrations for heavy infestations.

### APPLICATION SITES

#### Indoors

Dairies	Federally inspected	Public buildings
Mills	Meat & Poultry plants	Residences
Elevators	Mushroom houses	Hospitals and public
Granaries	Drive-ins	health buildings
Grain bins	Trucks & Trailers	Hotels
Breweries	Railroad Cars	Motels
Bakeries	Ships' holds	Poultry houses
Bottling plants	Warehouses	Dairy and beef barns
Canneries	Storage areas	Horse barns
Food processing plants	Stores	Swine housing
Restaurants	Offices	Milking parlors
Institutions	Industrial installations	Milk rooms
Kitchen areas		Zoo housing

and specific areas as described in detailed directions for use. See precautionary statements pertaining to use in food areas. Authorized by USDA for use in Federally inspected meat and poultry plants.

#### Outdoors

Parks	Feed lots	Residential areas
Playgrounds	Swine lots	Lumber yards
Recreation areas	Zoos	Campsites
Wetlands (Mosquito	Drive-ins	Industrial installations
Swamps larvicide	Golf courses	Loading docks
Marshes only)	Municipalities	Refuse areas
Corrals		Kennels

#### Livestock

Beef cattle	Horses
Dairy cattle	Dogs

### INDOOR USE AS A SPACE SPRAY, UNDILUTED:

**General:** Close windows and doors and shut off ventilating systems. Use a fogger, vaporizer or other equipment adjusted to deliver an aerosol spray (no droplets over 60 microns in diameter and 80% less than 30 microns). Apply at a rate of 1/2 fluid ounce per 1000 cubic feet of space. Direct the spray toward the ceiling and upper corners of the space and behind obstructions. Keep the area closed for at least 30 minutes. Ventilate the treated area and ventilate before reoccupying. Sweep up and destroy fallen insects. Repeat treatment as necessary.

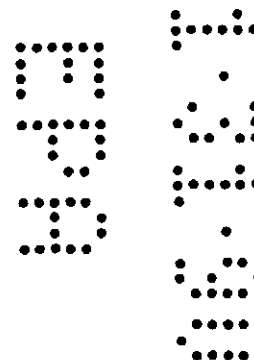
This method of application will control exposed, accessible stages of flies (including fruit flies), mosquitoes, gnats, small flying moths, wasps, hornets, clover mites, cheese mites, cheese skippers, boxelder bugs, earwigs, ants and the following common stored product pests: granary weevils, rice weevils, confused flour beetles, saw-toothed grain beetles, spider beetles, cigarette beetles, drugstore beetles, angoumois grain moths, Mediterranean flour moths, Indian meal moths, tobacco moths, yellow mealworms, dark mealworms, grain mites, cadellies and red flour beetles.

**Dried Fruit Products** in storage or being processed, for control of confused flour beetles, dried fruit beetles, Indian meal moths and saw-toothed grain beetles: Remove and destroy infested products. As noted above disperse this product as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Use 1/2 fluid ounce per 1000 cubic feet of space. Repeat applications as necessary for insect control, but do not exceed more than 10 applications in any given month. Leave the room closed for 1 hour. Do not remain in treated areas and ventilate before reentry. Sweep up and destroy fallen insects.

**Stored food** (stored in multi-wall or cloth bags) in warehouses, storage rooms, flour mills, grain elevators, granaries, etc. for control of angoumois grain moths, cadellies, confused flour beetles, Indian meal moths, Mediterranean flour moths, rice weevils, saw-toothed grain beetles, yellow mealworms, cheese mites, cheese skippers, cigarette beetles, grain mites, granary weevils, dark mealworms, red flour beetles: Remove and destroy infested products. As noted above, disperse this product first by directing spray into corners, under pallets, and around stacks of packaged foods hitting as many insects as possible and then treat as a space spray. Use at the rate of 1/2 to 1 fluid ounce per 1000 cubic feet.

Infested stored products should be destroyed, fumigated or treated by other effective methods using an approved product intended for such purpose.

Do not remain in treated areas and ventilate area before reentry. This application will kill accessible, exposed stages of those stored product pests listed above. Sweep up and destroy fallen insects.



**INDOOR USE AS A SPACE SPRAY, DILUTED:**

**General:** For use in ordinary mechanical fogging equipment to control accessible exposed stages of flies (including fruit flies), mosquitoes, small flying moths, gnats, wasps, hornets, cheese skippers and these common stored product pests: granary weevils, rice weevils, confused flour beetles, saw-toothed grain beetles, spider beetles, cigarette beetles, drugstore beetles, angoumois grain moths, Mediterranean flour moths, Indian meal moths, Tobacco moths, meal worms and grain mites. Close room and shut off air conditioning or ventilating equipment. Dilute 1 part concentrate plus 49 parts refined kerosene and mix well. Apply at the rate of 1 to 2 fluid ounces dilute spray per 1000 cubic feet filling the room with mist. Direct spray upward towards corners of room and ceiling. Keep area closed for at least 30 minutes. Vacate treated area and ventilate before reentry. Repeat as necessary.

With equipment which produces a true aerosol spray, a dilution of 1 part concentrate plus 7 1/2 to 15 1/2 parts refined kerosene may be applied at the rate of 1/2 to 1 fluid ounce per 1000 cubic feet.

**Poultry Houses, Dairy and Beef Barns, Horse Barns, Swine Housing, Zoo Housing, Milking parlors, Milk rooms and Dairies:** Use with equipment which produces a true aerosol spray to kill flies, mosquitoes, gnats, small flying moths and exposed cockroaches. Cover or remove exposed food and watering troughs and close house as tightly as possible. Dilute concentrate with refined kerosene at the rate of 1 part concentrate plus 7 1/2 to 15 1/2 parts oil and mix well. Direct spray upward and apply until room is filled with mist. Keep closed for at least 30 minutes and ventilate thoroughly before reentry. Repeat as necessary.

For ordinary mechanical fogging equipment, prepare as above and dilute 1 part concentrate plus 24 to 49 parts of refined kerosene and mix well. Apply at the rate of 2 fluid ounces dilute spray per 1000 cubic feet of space. Direct fog upward toward corners of room and ceiling above animals. Vacate room and leave closed for at least 30 minutes. Ventilate thoroughly before reentry. Repeat as necessary.

**Mushroom Production and Processing:** To control mushroom flies and fungus gnats in growing houses dilute 1 part of concentrate plus 49 parts methylene chloride or refined kerosene and mix well. Apply at a rate of 1 fluid ounce dilute spray per 1000 cubic feet of space. Fogger should be operated 8 to 10 feet away from beds and directed slightly upward over them. Circulation fans should be left in operation, but for best results, refrigeration should be turned off. In packaging and canning plants, use at a rate of 1/2 fluid ounce dilute spray per 1000 cubic feet of space. Do not remain in treated areas.

**Federally Inspected Meat and Poultry Plants:** Dilute 1 part concentrate with 5 parts refined kerosene and use with ULV spraying device at the rate of

1 fluid ounce dilute spray per 1000 cubic feet of space. Apply the spray into all cracks and crevices in woodwork, walls, floors, underneath sinks, behind pipes and in all places where these insects shelter. Contact as many insects as possible. Repeat as necessary for control of exposed, accessible stages of roaches, flies, mosquitoes, small flying moths and gnats. Before using, exposed food products and packaging materials must be covered or removed. After use, equipment and utensils must be thoroughly rinsed with potable water before operations are resumed. Use as a space spray only when plant is not in operation.

**INDOOR USE AS A SURFACE SPRAY, DILUTED** for control of crawling insects including ants, boxelder bugs, clover mites, drugstore beetles, earwigs, lice, spider beetles: Dilute 1 part concentrate plus 49 parts refined kerosene and mix well. Except for edible product areas of food processing or food handling establishments, a dilution of 1 part concentrate plus 9 to 49 parts refined kerosene may be used for surface sprays. Apply as a coarse wetting spray using approximately 1 gallon of spray mixture per 750 square feet of surface. Spray walls, floors and other surfaces of bins and storage and handling areas thoroughly, being especially careful to treat cracks, crevices, floor drains, behind cabinets, around pipes and other harborages. Treat unloading, handling and processing areas and inside conveying, processing and handling equipment. Spray thoroughly around the base of heavy machinery and equipment. Spray insects directly when possible. Repeat as necessary.

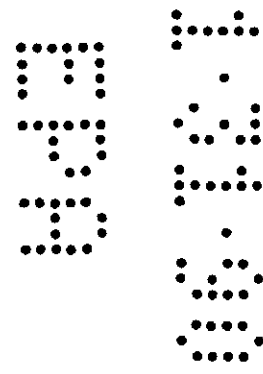
For in transit protection, clean and spray truck beds, boxcars, and ships' holds before loading. Thoroughly treat walls and floors and spray each layer of cartons or containers lightly as stacked with the above dilution.

As an aid in control of mosquitoes, gnats, and wasps and skippers, treat walls, ceilings, mouldings, screens, door and window frames, beams, light cords and similar resting areas with the above dilution.

To control carpet beetles, use the above dilution to spray edges of carpeting and under carpeting and rugs. (Certain carpet fibers or backing may be affected by this product; test an inconspicuous area before completing treatment.) Make a localized application to floor and baseboards and spray directly into cracks, closets, and infested areas of shelving. Repeat as necessary.

To control bedbugs, use the above dilution to spray mattresses lightly, particularly around tufts, buttons and seams. Take beds apart and spray in all joints and cracks. Treat baseboards, mouldings, and floors. Repeat as necessary.

To control fleas and brown dog ticks, use the above dilution to spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, mouldings, window and door frames, and localized areas



of flour and floor coverings. Fresh bedding should be placed in animal quarters following treatment. Concurrent treatment of animals with a product registered for animal application for flea control is usually necessary for effective results. Repeat as needed.

To control Indian meal moths and angoumois grain moths in stored grain, use the above dilution and apply to the surface of binned grain at a rate of 1 gallon spray mixture per 1000 square feet. Apply at monthly intervals with the first appearance of moths and continue until early Fall. In case of severe infestation, break up webbing with rake before spraying and make a second application in 2 weeks.

**LIVESTOCK:** To protect beef and dairy cattle, horses and dogs from hornflies, houseflies, mosquitoes, and gnats, dilute 1 part concentrate plus 1 3/4 to 4 1/2 parts refined kerosene and mix well. Apply a light mist, sufficient to wet the tips of the hair. To control stable flies, horseflies and deerflies on beef and dairy cattle and horses, apply 2 fluid ounces of spray mixture per adult animal. Application should be SUFFICIENT TO WET THE HAIR BUT NOT TO SOAK THE HIDE. Use proportionately less for smaller animals. Repeat treatment once or twice daily or at intervals to give continued protection.

To control the mottled stages of blood sucking lice on beef and dairy cattle, apply the spray to thoroughly wet the hair. Use 2 fluid ounces of spray mixture or less per adult animal and proportionately less for smaller animals. Repeat every 2 to 3 weeks as required.

To control face flies on beef and dairy cattle, use sufficient material to wet the face and head, but do not spray into the eyes. Repeat as necessary when flies are troublesome.

**OUTDOOR APPLICATION BY GROUND EQUIPMENT, UNDILUTED:**  
To control adult mosquitoes, gnats and small flying moths, apply when there is a light breeze of approximately 5 mph and temperature is 75°F. (24°C.) or less. With a ULV spraying device, apply at a dosage of 5 fluid ounces per minute upwind of the area to be treated. If the equipment is truck-mounted, keep the speed to approximately 5 to 10 mph with a swath width of no more than 300 feet. Treat shrubbery and vegetation where mosquitoes may rest, particularly stagnant pools, marshy areas, shore lines and ponds. However, application of this diluted product to any body of water is prohibited. Repeat treatment as required.

Disperse at the following rates:

Truck Speed (miles per hour)	Flow Rate (fluid ounces per minute)
5	2 to 2 1/4
10	4 to 4 1/2

Delivery rates and traveling speeds can be varied slightly so long as the basic objective of 0.002 to 0.0025 pounds actual pyrethrins per acre is maintained.

This application will also provide temporary relief from flies, mosquitoes, and small flying moths in public gathering places (drive-in restaurants, drive-in theaters, golf courses, municipalities, parks, playgrounds, recreational areas, campsites, etc.). Direct application into tall grass, shrubbery and around lawns where these pests may hover or rest. Apply while air is still and prior to attendance at gathering. Avoid wetting foliage as plant injury may occur. Repeat as necessary.

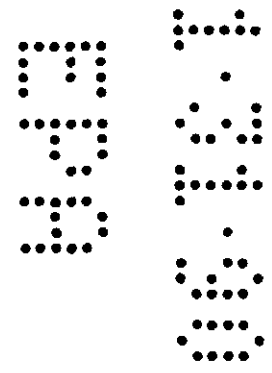
In additional outdoor areas (corrals, feed lots, swine lots, zoos, kennels), cover water, drinking fountains and animal feed before application. Fill area with mist, directing application as above. In zoos, avoid exposure of reptiles. Repeat as necessary.

**OUTDOOR APPLICATION, DILUTED:**  
To control mosquito larvae, dilute concentrate at the rate of 8 fluid ounces per 50 gallons of oil and apply at the rate of 20 to 25 gallons per acre. Apply as a coarse wetting spray to the border of, or on shallow water of, wetlands, swamps and marshes where mosquito larvae are known to breed. Do not exceed this dosage as fish kill may result.

**OUTDOOR APPLICATION BY FIXED WING AIRCRAFT:**  
To control adult mosquitoes with fixed wing aircraft, use 1.2 to 2.4 fluid ounces of concentrate in 4 gallons of oil per acre.

**NOTICE OF WARRANTY**

Manufacturer warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use. Any damage arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profit or values, etc. Manufacturer makes no other express or implied warranty of fitness of merchantability. Buyer assumes the risk of any use contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable by manufacturer.



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FORMULATED FOR  
**PLATTE CHEMICAL CO.**  
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