

This label has been updated according to the re-evaluation decision of Pyrethrins RVD2023-06 and Piperonyl Butoxide RVD2023-07. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 03/02/2025 in accordance with the phase out period set out in RVD2023-06 and RVD2023-07. This previously approved label will be provided upon request by emailing [hc.pmra.info-arla.sc@canada.ca](mailto:hc.pmra.info-arla.sc@canada.ca). In your email please include the product name and Registration number of the label you are requesting.

**Knock Down X-Max Farm and Livestock Insect Killer (0.6  
Pyrethrin from Chrysanthemum Flower Pyrethrum)**

PRESSURIZED SPRAY

For indoor use at MILKING PARLOURS, MILK HOUSES, FOOD PROCESSING PLANTS, RESTAURANTS, HOTELS, HOSPITALS AND OTHER COMMERCIAL AND INDUSTRIAL BUILDINGS to (kill/control) Stable flies, Horse flies, Face flies, Deer flies, House flies, Horn flies, Mosquitoes, Biting midges, Wasps, Cockroaches, Ants, Spiders, Silverfish, Crickets, Centipedes, Carpet beetles, Dog fleas, Cat fleas, Brown dog ticks, American dog ticks, Bed bugs.

For use on beef and dairy cattle (lactating and nonlactating) and horses to (kill/control) Stable flies, Horse flies, Face flies, Deer flies, House flies, Horn flies, Mosquitoes, Biting midges.

COMMERCIAL

REGISTRATION NO. 28371 PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENTS:

Pyrethrins 0.60%

Piperonyl Butoxide 4.00%

NET CONTENTS \_\_\_\_\_ grams

DANGER

EXTREMELY FLAMMABLE

EXPLOSIVE

READ THE LABEL BEFORE USING

KUUS INC

UNIT 5&6A, 450 TAPSCOTT ROAD

TORONTO, ON M1B 1Y41-800-

267-0455

[www.knockdownbugs.com](http://www.knockdownbugs.com) [www.mosquitoshield.com](http://www.mosquitoshield.com)

(Value added Family products)™

Proudly Made in Canada

Manufacturers of Mosquito Shield Insect Repellants

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Optional Statements:

- Botanical Insecticide "Pyrethrum"

## NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

### First Aid:

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. DO NOT induce vomiting unless told to do so by a poison control centre or doctor. DO NOT give any liquid to the person. DO NOT give anything by mouth to an unconscious person. **If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. **If on skin or clothing:** Take off contaminated clothing, Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice. **If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically. This product contains petroleum distillate

**ENVIRONMENTAL PRECAUTIONS:** This product contains active ingredients and aromatic petroleum distillates which are toxic to aquatic organisms.

### **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN. DO NOT remain in treated areas. Ensure proper ventilation after sealed areas have been treated. Cover milk and milking utensils to prevent contamination from spray and dead insects. (Any treated surfaces that may contact food or feed products should be washed thoroughly with potable water after spraying and before reuse). DO NOT contaminate feed or water troughs. DO NOT spray over milk or milking equipment. Avoid inhalation of spray. Avoid contact with skin and eyes. Wash after using. CONTENTS UNDER PRESSURE. DO NOT place in hot water or near radiators, stove or other sources of heat. DO NOT puncture or incinerate can or store at temperatures over 50°C. DO NOT spray into or near any open flame, spark or while smoking. Wear a long-sleeved shirt, long pants, chemical resistant gloves, socks and shoes during application, clean-up and repair.

## DIRECTIONS FOR USE

**FOR USE:** In MILKING PARLOURS, MILK ROOMS, MILK HOUSES, ANIMAL QUARTERS, DAIRY BARNs, HORSE BARNs, PIGGERIES, LIVESTOCK SHELTER SHEDS, FOOD PROCESSING PLANTS, RESTAURANTS, HOTELS, HOSPITALS AND OTHER COMMERCIAL AND INDUSTRIAL BUILDINGS, BEEF AND DAIRY CATTLE (LACTATING AND NONLACTATING)

**KILLS and REPELS:** Stable flies, Horse flies, Face flies, Deer flies, House flies, Horn flies, Mosquitoes, Biting midges, Wasps, Cockroaches, Ants, Spiders, Silverfish, Crickets, Centipedes, Carpet beetles, Dog fleas, Cat fleas, Brown dog ticks, American dog ticks, Bed bugs

**FOR USE INSIDE THE FOLLOWING STRUCTURES:** MILKING PARLOURS, MILK ROOMS, MILK HOUSES, ANIMAL QUARTERS, DAIRY BARNs, HORSE BARNs, PIGGERIES, LIVESTOCK SHELTER SHEDS, FOOD PROCESSING PLANTS, RESTAURANTS, HOTELS, HOSPITALS AND OTHER COMMERCIAL AND INDUSTRIAL BUILDINGS

- Within the specified use location, to enhance effectiveness of this product, apply directly to the listed pests where possible. For all labelled uses, treatment must only be repeated after 7 days if pest problem persists or reoccurs. Good sanitary practices should be maintained to prevent re-infestation.
- **DO NOT** exceed 1.53 g m<sup>3</sup> (1second/m<sup>3</sup>) and 9.25g/m<sup>2</sup> (5.8 seconds/m<sup>2</sup>)

### Use Limitations

- **DO NOT** apply when people or pets are present. Additionally for space applications, **DO NOT** apply when livestock are present.
- **DO NOT** apply when a food/feed processing facility, milking parlour, milk room } or milk house is in operation.
- **DO NOT** apply to surfaces that may come into contact with food/feed. Cover or remove all food/feed (including bulk tanks that contain milk). Cover or remove all milking equipment and thoroughly wash before use. Cover all food/feed processing surfaces, equipment and utensils or thoroughly wash them following treatment. Any food/feed (including milk) accidentally contaminated with spray solution must be discarded.
- **DO NOT** apply to overhead areas or in confined spaces without appropriate respiratory and eye protection.
- Ventilate treated areas after application either by opening windows and doors or using fans, where required, to aid in the circulation of air. Air exchange/ventilation systems confirmed to be operational may also be used. If entering treated areas prior to venting or before the 2-hour re-entry interval, wear chemical-resistant coveralls with a chemical-resistant hood over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides
- When applied as a space treatment: **DO NOT** remain in treated areas after application. **DO NOT** allow people, pets or livestock to enter treated areas until 2 hours after application. The commercial applicator is responsible for informing workers and others of this requirement.
- When applied as a surface treatment: **DO NOT** allow spray to drip or allow drift onto non-target surfaces. **DO NOT** enter or allow entry into treated areas until sprays have dried.

### How to Apply

**DO NOT** APPLY AS A BROADCAST TREATMENT. Apply as a space spray, crack and crevice, perimeter, spot or furniture (pet bedding, mattresses, box springs and bed frames only) treatment only. Space application is a suspension of fine droplets in the air within an indoor space. Crack and crevice is an application directly into narrow openings on the surface of the structure. It does not include the treatment of exposed surfaces. Narrow openings typically occur at expansion joints, utility entry points and along baseboards and mouldings. Perimeter application is less than 0.3 m wide along the edges of a room to baseboards, wall- floor and ceiling-wall joints, and around

doorways or windows. Spot application is localized to a surface area not more than 0.2 m<sup>2</sup>. Spots are not to be adjoining and the combined area of spots is not to exceed 10% of the total surface area of a room. Furniture treatment: *broadcast application* covers large areas of the entire surface of items; *crack and crevice treatments* are applications to junction points on items; *spot application* is up to 10% of the surface of the item; and *tuft and/or seam treatment* (mattresses only) is to the junction of two or more pieces of fabric and any decorative trim (e.g., buttons).

**SPACE APPLICATION: To (kill/control)** Stable flies, Horse flies, Face flies, Deer flies, House flies, Horn flies, Mosquitoes, Biting midges, Wasps **inside** MILKING PARLOURS, MILK HOUSES, FOOD PROCESSING PLANTS, RESTAURANTS, HOTELS, HOSPITALS AND OTHER COMMERCIAL AND INDUSTRIAL BUILDINGS: In hospitals, **DO NOT** use in nurseries or rooms where infants, ill or aged persons are confined. Before using as a space spray in structures with livestock, remove all livestock.

**SURFACE APPLICATION: To (kill/control)** Cockroaches, Ants, Spiders, Silverfish, Crickets, Centipedes, Carpet beetles, Dog fleas, Cat fleas, Brown dog ticks, American dog ticks, Bed bugs: Thoroughly treat indoor structural surfaces, including cracks and crevices in walls, floors and ceilings; along and behind baseboards; walls behind and floors beneath appliances (e.g., refrigerators and stoves) and furniture (e.g., cabinets and storage units); around sinks, drains and pipes; localized areas around garbage cans; and other structural elements where listed insects hide. For ants, also spray trails, nests and points of entry (e.g., around windows and doors).

**To (kill/control) bed bugs: DO NOT** use on items which can be laundered (e.g., pillows, bedding, toys, clothing, etc.). Remove bedding before treating mattress. Spray mattress, particularly around tufts and seams. Take bed apart and spray the bed frame, springs and all joints. Treated mattress must be dry before replacing laundered bedding.

**To (kill/control)** Dog fleas, Cat fleas, Brown dog ticks, American dog ticks: **DO NOT** apply to furniture (with the exception of pet bedding), mattresses, linens, toys or clothing. Apply to indoor structural surfaces, including cracks and crevices in walls and floors; along and behind baseboards, window and door frames; and localized areas of floors and floor coverings. Pet bedding may be entirely treated with this product or replaced with clean, fresh bedding after other listed areas are treated. **DO NOT** SPRAY PETS WITH THIS PRODUCT. Only treat pets with products specifically registered for use on that type of pet. For effective flea and tick control indoors, clean any area used by the pet. Cleaning the areas includes vacuuming floors, carpets, furniture, etc. (discard vacuum bag after use) and washing the pet's bedding, living quarters, and surrounding area.

#### **FOR USE ON BEEF AND DAIRY CATTLE (LACTATING AND NONLACTATING) (LIVESTOCK)**

##### **Use Limitations**

- **DO NOT** exceed 36.7 g per animal (22 seconds/animal) per treatment.
- **DO NOT** treat eyes/eyelids and mucous membranes (e.g., nose, mouth, genitals).
- **DO NOT** use on sick animals or animals under drug or pesticide treatment. Before use on pregnant animals, consult a veterinarian.
- Discontinue use if animal develops irritation after treatment with this product.
- Treat dairy cattle at least 20 minutes before milking. **DO NOT** spray directly on udders. Wash udders before milking.
- **DO NOT** contact treated animals until sprays have dried.

**To treat listed livestock against** Stable flies, Horse flies, Face flies, Deer flies, House flies, Horn flies, Mosquitoes, Biting midges: Apply a light, uniform spray at the rate of 36.7 g per animal (22 seconds/animal) taking care to treat back, withers and forelongs. Thoroughly coat the hair of the animal – **DO NOT** wet the skin. **DO NOT** apply as a spray to the face of the animal. To treat the face, moisten (not to the point of dripping) a clean, soft cloth with product and thoroughly rub the

moistened cloth on the face of the animal, being certain to avoid contact with the eyes/eyelids and mucous membranes. **DO NOT** apply more than once per day during peak fly season. **DO NOT** apply more than once a week during non-peak fly season. Treatment must only be repeated if pest problem persists or reoccurs.

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, Knock Down X-Max Farm and Livestock Insect Killer contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to Knock Down X-Max Farm and Livestock Insect Killer and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same locations. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed. To delay insecticide resistance:

- Where possible, rotate the use of Knock Down X-Max Farm and Livestock Insect Killer or other Group 3 insecticides with different groups that control the same pests in the location to be treated.
- Insecticide use should be based on an IPM program that includes scouting and record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact {company representatives} at [www.knockdownbugs.com](http://www.knockdownbugs.com).

**STORAGE:** Store this product away from food or feed.

**DISPOSAL:** Press valve to completely empty can. Dispose of can in accordance with Provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for information on the clean-up of spills.