

2023-2425
2024-03-05

This label has been updated according to the re-evaluation decisions 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 the re-evaluation/special review decisions of Pyrethrins RVD2023-06 and Piperonyl Butoxide RVD2023-07. This previously approved label will be provided upon request by emailing hc.pmra.info-arla.sc@canada.ca. In your email please include the product name and Registration number of the label you are requesting.

2023-2425
2024-03-05

Knockdown Emulsifiable 6:60

For indoor use at {labelled sites} to (kill/ control) Fruit flies, House flies, Hornets, Wasps, Angoumois grain moth, Mosquitoes, Skipper flies, Flies, Cadelles, Rice weevils, Granary weevils, Flat grain beetles, Cigarette beetles, Confused flour beetles, Drugstore beetles, Lesser grain borer, Merchant grain beetles, Sawtoothed grain beetles, Warehouse beetles, Red flour beetles, Grain mites, Cheese mites, Yellow mealworm, Poultry lice, Bed bugs, Mites. For outdoor use around homes and other listed structures to (kill/control) ticks. For use on outdoor ornamental plants to (kill/control) Aphids, Armyworms, Flea Beetles, Fruittree leafroller, Green Peach aphids, Spongy moths (adults & larvae), Leafhopper, Leafroller, Leaftiers, Thrips, Fall webworms, Whiteflies. **DO NOT** apply to plants grown for food or feed (e.g., fruits, vegetables, herbs)
For use on beef and dairy cattle (lactating and nonlactating) & swine to (kill/control) Horn flies, Horse flies, Mosquitoes, Stable flies. For use on beef and dairy cattle (lactating and nonlactating) to (kill/control) blood sucking lice.

COMMERCIAL

REGISTRATION NO. 34569 PEST CONTROL PRODUCTS ACTREAD THE LABEL

BEFORE USING

EMULSIFIABLE CONCENTRATE

ACTIVE INGREDIENT:

Pyrethrins.....	6.00%
* Piperonyl butoxide	60.00%

* Equivalent to 48.00% (butylcarbityl) (6-propylpiperonyl) ether and 12.00% related

compoundsKnock Down® -Registered trademark of KUUS Inc.

KEEP OUT OF REACH OF CHILDRENCAUTION



POISON SKIN

IRRITANT

POTENTIAL SKIN SENSITIZER

NET CONTENTS: _____

Distributed by: KUUS

Inc., Unit 5 & 6 450- TapscottRoad,
Toronto, Canada M1B1Y4
1-800-267-0455
www.knockdownbugs.com,
www.kuusinc.com

2023-2425
2024-03-05

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 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 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 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. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Contains petroleum distillate. Vomiting may cause aspiration pneumonia. Treats symptomatically.

PRECAUTIONS

For application using a mechanically pressurized handgun, wear a longsleeved shirt, long pants, chemical-resistant gloves, socks and shoes, 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 during mixing, loading, application, clean-up and repair. If entering treated areas prior to venting or before 2 hour re-entry interval after application using a mechanically-pressurized handheld sprayer for mists, aerosols, and fogs (droplet sizes 0.1- 100 µm) or stationary fogger, and for application using a mechanically-pressurized handheld sprayer for mists, aerosols, and fogs, 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. For mixing and loading, and application using all other application equipment, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair.

DO NOT handle more than 0.44 L of undiluted product per person, per day when using a mechanically-pressurized handheld sprayer for mists, aerosols, and fogs (droplet size 0.1-100 µm). These restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators.

ENVIRONMENTAL PRECAUTIONS

This product contains active ingredients and aromatic petroleum distillates, which are toxic to aquatic organisms. Toxic to bees. Avoid application around blooming plants. If applications must be made during the blooming period, restrict applications to evening when most bees are not foraging. Toxic to beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize exposure to non-target areas.

DIRECTIONS FOR USE

- Knockdown Emulsifiable 6:60 can be used inside the following structures: food and non-food areas of food processing plants, industrial installations, bakeries, rice and wheat mills, restaurants, tobacco warehouses, grain elevators, warehouses, barns, dairies, milking parlours, milking rooms, poultry houses, trucks, cargo ships and grain and feed storage sites in farm structures to (kill/control) listed pests. May also be used outdoors around homes and other listed structures to (kill/control) ticks and on outdoor ornamental plants to (kill/control) listed pests. Contains natural pyrethrins.
- 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, unless otherwise stated on this label. When applied indoors, good sanitary practices should be maintained to prevent re-infestation.
- Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The areas being treated must be vacated by unprotected persons. Do not enter treated areas until sprays have dried.

Use Limitations for All Uses

- **DO NOT** apply undiluted.
- **DO NOT** apply when people, pets or livestock (with exception of poultry) are present.
- **DO NOT** apply when a food/feed processing facility, milking parlour, milk house or milk room 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.

2023-2425
2024-03-05

- When applied indoors: **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.
- When applied indoors as a space treatment: **DO NOT** remain in treated areas after application. **DO NOT** allow people, pets or livestock (with exception of poultry) to enter treated areas until 2 hours after application. The commercial applicator is responsible for informing workers and others of this requirement.
- When applied indoors as a surface treatment: **DO NOT** allow spray to drip or allow drift onto nontarget surfaces. Use a coarse droplet size and low pressure spray not exceeding 345 kPa (50 psi) to avoid splashing onto non-target surfaces. **DO NOT** allow people or pets to enter treated areas until sprays have dried.
- When applied outdoors: **DO NOT** apply in areas where plants are grown for food or feed (e.g., vegetables, fruit, herbs). To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section. As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. Apply only when the potential for drift beyond area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.] **DO NOT** allow people or pets to enter treated areas until sprays have dried.

FOR INDOOR USE AT LISTED STRUCTURES

How to Apply

DO NOT APPLY AS A PERIMETER OR SPOT TREATMENT. Apply as a space spray, crack and crevice or broadcast treatment only. Space application is a suspension of fine droplets (0.1 to 100 µm) 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. Broadcast application is to broad expanses of indoor structural surfaces such as walls, floors, ceilings and indoor foundation walls/crawlspace.

GENERAL DIRECTIONS PRIOR TO THE TREATMENT OF LISTED STORED PRODUCT PESTS: Good sanitation is necessary for effective treatment of listed stored product pests. Remove and dispose of all residues (e.g., deposits and accumulations of food/feed products, waste grain, debris, dust, dirt) and thoroughly vacuum and clean indoor structural surfaces, including walls, floors, ceilings, rafters and door frames; interior and exterior surfaces of conveying, processing and handling equipment; pantries, cabinets, drawers and shelves; and around stored product containers, especially in cracks and crevices (discard vacuum bag after use).

SPACE APPLICATION:

GENERAL DIRECTIONS FOR SPACE APPLICATIONS: Close all windows and doors and shut off all ventilating systems and sources of ignition before treatment. When using handheld equipment, begin application at far side of the room and work backwards toward exit. [After treatment, vacate the treated area and keep windows and doors closed for 10 minutes before ventilating. For ventilation and re-entry requirements, see "Use Limitations for All Uses" (above).

For use in food and non-food areas of food processing plants, industrial installations, bakeries, rice and wheat mills, restaurants, tobacco warehouses, grain elevators and warehouses to (kill/control) Fruit flies, House flies, Hornets, Wasps, Angoumois grain moth, Mosquitoes, Skipper flies: Dilute this concentrate at the rate of 1 part with 29 parts water (.95 L with 28.50 L water) up to 1 part to 11 parts water (.95 L with 11.4 L water). Apply as a very fine spray (droplets 61 to 100 µm in diameter) at the rate of 15 to 30 milliliters of dilute spray per 28.30 cu. meters of space. Direct the spray to all parts of the room, especially upward to ceiling, upper corners of the room, windows and other light sources, and around pallets, stacks of stored products and stored product containers. Where oil residues are acceptable, this product can be diluted at the rate of 1 part to 29 parts up to 1 part to 11 parts in deodorized base oil instead of water and applied as a space spray with any good type applicator such as mechanical or ULV fogger capable of producing droplets of aerosol size.

For use in barns, milking parlours, milk rooms, milk houses and poultry houses to (kill/control) Flies, Mosquitoes: Dilute at the rate of 60 milliliters per 3.8 L of water. Before using as a space spray in buildings with livestock, remove all livestock, with exception of poultry, from area to be treated. Apply as a very fine spray (droplets 61 to 100 µm in diameter) at the rate of 60 milliliters per 28 cu. meters of space. Direct the spray upward to all parts of the room, especially ceiling, upper corners of the room, windows and other light sources, and not directly towards poultry.

SURFACE APPLICATION:

For use in grain storage sites of grain elevators, rice mills, wheat mills, farms and listed modes of transport to (kill/control) Cadelles, Rice weevils, Granary weevils, Flat grain beetles, Cigarette beetles, Confused flour beetles, Drugstore beetles, Lesser grain borer, Merchant grain beetles, Sawtoothed grain beetles, Warehouse beetles, Red flour beetles, Grain mites, Cheese mites, Yellow mealworm: This concentrate can be used in warehouse bins, grain or hopper bins, truck beds and cargo ships' holds as a cleanup prior to using them for storage or for transit. This concentrate can also be used to treat conveying equipment. In mills and elevators, remove all accumulations of infested grain from bins. Thoroughly clean walls, rafters, floors and door frames, and all storage and conveying equipment by sweeping or vacuuming the waste grain, cobwebs and other debris, with special attention to material lodged in cracks and crevices. Remove and burn all of the debris to kill eggs and insects that might be present.

2023-2425
2024-03-05

For farms, give particular attention to cleaning up around used feed and grain bags, grain residues from wagons, harvesting equipment and feed troughs. **DO NOT** place newly harvested grain in the same bin with carry-over grain. All carry-over grain stocks that are not treated with grain protectant should be fumigated using a registered product intended for this purpose. Perform these cleaning operations within two or three weeks before harvest.

After above sanitation measures have been performed, dilute this concentrate at the rate of 1 part to 29 parts water (.95 L with 28.50 L water) up to 1 part to 11 parts (.95 L with 11.4 L water). Apply at the rate of 3.8 L of dilute spray per 70 sq. meters. Prior to use for storage or for transit, thoroughly treat conveying equipment (not in operation) and indoor surfaces of empty structures, including walls, floors and ceilings, and along partition boards, paying particular attention to forcing the spray into all cracks and crevices. Treated warehouse bins, equipment and surfaces of listed storage structures must be dry prior to use for storage or for loading prior to transit.

For use in poultry houses to (kill/control) poultry lice: Using a dilution of 60 to 90 milliliters of concentrate per 3.8 L of water, apply as a medium or coarse spray (droplets 236 to 403 µm in diameter) at the rate of 60 millilitres of dilute spray per 28.3 sq. meters. Thoroughly spray roosts, walls and nests or cages.

For use in poultry houses to (kill/control) bedbugs and mites: Dilute at the rate of 60 to 90 milliliters per 3.8 L of water and apply as a medium or coarse spray (droplets 236 to 403 µm in diameter) at the rate of 60 millilitres of dilute spray per 28.3 sq. meters. Thoroughly spray crevices of roost poles, cracks in walls and cracks in nests where the bedbugs and mites hide.

FOR OUTDOOR USE AROUND HOMES AND OTHER LISTED STRUCTURES TO (KILL/ CONTROL) TICKS THAT MAY CARRY LYME DISEASE

Dilute this concentrate in sufficient water for thorough coverage of upper and lower leaf surfaces of treated vegetation (maximum of 380 L of water per .4 hectare). Apply as a coarse spray at the rate of 60 to 480 milliliters of dilute spray per .4 hectare. Thoroughly spray grassy areas and vegetation, including shrubbery and tall grasses, around yard borders, contacting as many ticks as possible on upper and lower leaf surfaces of vegetation. **DO NOT** wet vegetation to the point of runoff or drip. Spraying should begin when ticks first appear. **DO NOT** wait until vegetation is heavily infested. **DO NOT** exceed 1865 mL of spray solution per hectare, per year.

FOR USE ON OUTDOOR ORNAMENTAL PLANTS

To (kill/control) Aphids, Armyworms, Flea Beetles, Fruittree leafroller, Green Peach aphids, Spongy moths (adults & larvae), Leafhopper, Leafroller, Leaf tiers, Thrips, Fall webworms, Whiteflies on ornamental plants such as African Violet, Aster, Azalea, Begonia, Calceolaria, Calendula, Calla, Camellia, Carnation, Cineraria, Chrysanthemum, Cypress, Daffodil, Dahlia, Dogwood, Elm Eucalyptus, Fern, Ficus, Geranium, Gladiolus, Gypsophila, Holly, Juniper, Lily, Marigold, Oak, Peony, Petunia, Philodendron, Pine, Roses, Snapdragon, Sweet Pea, Tulips, Viburnum, Wandering Jew, Yew, Zinnia.

DO NOT tank mix with other pesticides. **DO NOT** apply this product through any type of irrigation system. Dilute this concentrate in sufficient water for thorough coverage of upper and lower leaf surfaces of treated ornamental plants (maximum of 380 L of water per .4 hectare). It is recommended that the final spray mix be buffered to a PH of 5.5-7.0. When listed pests first appear, apply as a coarse spray at the rate of 60 to 480 milliliters of dilute spray per .4 hectare to thoroughly cover all foliage, including upper and lower leaf surfaces until damp. **DO NOT** wet plants to the point of runoff or drip. **DO NOT** exceed 1865 mL of spray solution per hectare, per year.

FOR USE ON BEEF AND DAIRY CATTLE (LACTATING AND NONLACTATING) & SWINE (LIVESTOCK)

Dilute at the rate of 60 milliliters per 3.6L of mineral oil (use **ONLY** CAS #72623-86-0 or CAS #8042-47-5) AND apply using a fine mist sprayer.

Use Limitations

- **DO NOT** exceed 30ml per 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.
- When applied to dairy cattle: 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 Horn flies, Horse flies, Mosquitoes, Stable flies: Apply a light, uniform spray at the rate of 30ml per animal. 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. During peak fly season, **DO NOT** apply more often than once per day. During non-peak fly season, **DO NOT** apply more often than once a week. Treatment must only be repeated if pest problem persists or reoccurs.

To control blood sucking lice on beef and dairy cattle: Dilute at the rate of 60 milliliters per 3.6L of mineral oil (use **ONLY** CAS #72623-86-0 or CAS #8042-47-5)

Apply a light, uniform spray at the rate of 30ml per animal to infested areas of the animal, except the face. Thoroughly coat the hair of the animal – **DO NOT** wet the skin. Use a stiff brush to get the spray down to the base of the hair. 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

2023-2425
2024-03-05

animal, being certain to avoid contact with the eyes/eyelids and mucous membranes. Treatment must only be repeated after 7 days if pest problem persists or reoccurs.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Knockdown Emulsifiable 6:60 contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to Knockdown Emulsifiable 6:60 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 Knockdown Emulsifiable 6:60 or other Group 3 insecticides with different groups that control the same pests in the location to be treated.
- Use tank mixtures with insecticides from a different group that is effective on the target pest when such use is permitted.
- 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,

STORAGE: Store this product away from food or feed in a cool, dry place. Keep container closed.

DISPOSAL: Triple or pressure rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container 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 cleanup of spills