

Reason to Issue: To propose changes in accordance with the RED

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RESTRICTED USE CLASSIFICATION: Due to Acute Oral Hazards - For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicators Certification

Co-Ral®
(coumaphos)
EMULSIFIABLE LIVESTOCK INSECTICIDE

For Control of Horn Flies, Face Flies, Lice and Ticks

Active Ingredients:	
0,0-Diethyl 0-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) phosphorothioate	11.6%
Inert Ingredients*:	88.4%
	100.0%

*Contains aromatic petroleum distillates.

This product contains 1.0 lb 0,0-Diethyl 0-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) phosphorothioate per gallon.

STATEMENTS OF PRACTICAL TREATMENT: Fatal if swallowed. May be fatal if inhaled. Do not breathe vapors or spray mist. Avoid contact with skin, clothing or eyes. Wash thoroughly with soap and warm water after handling. Wash contaminated clothing with soap and hot water before reuse. See side panel for additional STATEMENTS OF PRACTICAL TREATMENT.

KEEP OUT OF REACH OF CHILDREN

DANGER --  -- POISON

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

946 mL (1 Quart)

Bayer Corporation, Agriculture Division, Animal Health
Shawnee Mission, Kansas 66201 U.S.A.

ACCEPTED
OCT 29 1997
Under the Federal Insecticide, Fungicide, and Rodenticide Act, or amended, for the pesticide registered under EPA Reg. No. 11556-23

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STATEMENTS OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center immediately. If possible, vomiting should be induced under medical supervision. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If inhaled: Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention if victim displays signs of poisoning.

If on skin: Remove contaminated clothing and wash affected areas with soap and water.

If in eyes: Flush eyes with plenty of water. Call a physician immediately.

To Physician: Atropine sulfate by injection is antidotal. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine. See front panel for additional STATEMENTS OF PRACTICAL TREATMENT.

NOTICE: See attached leaflet for Notice to Veterinarian, Use Restrictions, Directions for Use, and for Warranty and Limitation of Damages.

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**HAZARDS TO HUMANS AND DOMESTIC ANIMALS
ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds, fish and aquatic invertebrates. Keep out of lakes, streams, or ponds. Coumaphos washed off of wading treated livestock may be hazardous to aquatic organisms. Do not contaminate water when disposing of equipment washwater or rinsate. Apply this product only as specified on this label.

STORAGE AND DISPOSAL

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

STORAGE: Do not allow to freeze. Keep from extreme heat.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. 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 directions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: 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.

EPA Est. No. 11556-KS-1
EPA Reg. No. 11556-23

Code 13285
71132850, R.6

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PROTECTIVE CLOTHING STATEMENT

Applicators and handlers exposed to the concentrate or participating in spray operations must wear long sleeve shirt, long pants; chemical-resistant gloves such as barrier laminate or butyl rubber \geq 14 mils, chemical resistant footwear plus socks, chemical resistant apron, face shield or goggles. All other handlers must wear long sleeve shirt, long pants, chemical-resistant gloves such as barrier laminate or butyl rubber \geq 14 mils, chemical resistant footwear plus socks.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment. If no such instructions for washables, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

NOTICE TO VETERINARIANS: If the proper dosage of Co-Ral Emulsifiable Livestock Insecticide has been applied and adverse reactions, such as bloat, excessive salivation and posterior paralysis occur, it is highly probable that a host parasite reaction exists. Administer symptomatic treatment. Anti-inflammatory agents may be helpful. If necessary, relieve bloat by trocarization, as a stomach tube may traumatize a severely swollen esophagus. Do not administer atropine, as it is contraindicated in host parasite reactions. If toxicity should occur as a result of gross overdosage, atropine by injection is antidotal.

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DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Co-Ral Emulsifiable Livestock Insecticide mixes readily with water to form an emulsion which is easily applied with ordinary spray equipment. One spray treatment is highly effective for control of flies, lice and ticks and provides residual control for several weeks.

Spray Treatment for Specified Ectoparasites: Operate spray equipment so as to thoroughly penetrate the hair coat. Re-treatment will be necessary only when insects reappear and constitute a problem.

Backrubber Application for Horn Flies and Face Flies: Co-Ral Emulsifiable Livestock Insecticide has proved to be ideal for backrubber application. When properly mixed and applied, excellent control of horn flies and face flies will be achieved. Best control is obtained when backrubbers are strategically located and properly treated. No. 2 furnace oil (fuel oil) or No. 2 diesel fuel oil is recommended for mixing with Co-Ral Emulsifiable Livestock Insecticide for use on backrubbers. Use of other oils may result in sludge formation that will prevent proper distribution in the reservoir-type backrubber.

Entry Restriction: Do not contact treated animals until their coats are dry.

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ATTENTION
CONTENTS MUST BE DILUTED BEFORE USE

RECOMMENDED APPLICATIONS

Do not apply more than 15 ounces of Co-Ral Emulsifiable Livestock Insecticide per 4 gallons of water. For lactating dairy cattle do not apply more than 1 ¼ ounces Co-Ral Emulsifiable Livestock Insecticide per 4 gallons of water.

ANIMAL	PARASITE	Fl. oz. Co-Ral	REMARKS
Beef and Non- Lactating Dairy Cattle	Horn Flies Lice	2 ½	SPRAY TREATMENTS: Apply specified dosage in 4 gallons of water for a complete wetting to run-off. Repeat as necessary.
	Ticks	5	

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ANIMAL	PARASITE	Fl. oz. Co-Ral	REMARKS
Beef and Lactating Dairy Cattle	Horn Flies Face Flies	9 ¼	CATTLE BACKRUBBERS: Mix specified dosage in 1 gallon of No. 2 fuel oil or No. 2 diesel fuel. Saturate the fiber portion of the backrubber with this mixture. Place the backrubber where animals congregate or travel regularly. For dairy cattle suspend at a height that will prevent straddling. Resaturate backrubber as needed. Note: For most effective face fly control the rubber should be constructed so as to permit the animal to rub its face. No interval is required between treatment and slaughter or use of milk.
	Lice	1 ¼	SPRAY TREATMENT(S): Apply specified dosage in 4 gallons of water for a complete wetting to run-off. Repeat as necessary.
Horses (Not intended for slaughter)	Horn Flies Lice	2 ½	SPRAY TREATMENT(S): Apply specified dosage in 4 gallons of water for complete wetting. Treat thoroughly all wounds and injuries. Repeat as necessary.
	Ticks	5	

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ANIMAL	PARASITE	QUARTS CO-RAL	REMARKS
Swine	Lice	2 ½	SPRAY TREATMENT(S): Apply specified dosage in 4 gallons of water for a complete wetting to run-off. Repeat as necessary.

USE RESTRICTIONS

Co-Ral is a cholinesterase inhibitor. Do not use this product on animals simultaneously or within a few days before or after treatment or exposure to cholinesterase-inhibiting drugs or pesticides. Atropine sulfate by injection is antidotal. Consult veterinarian at the first sign of adverse reaction."

For external insecticidal use only on specified animals. Do not apply as a spray at rates above 1¼ ounce of Co-Ral Emulsifiable Livestock Insecticide per 4 gallons of water to lactating dairy cattle or non-lactating dairy cattle within 14 days of freshening. If freshening should occur within the interval after spraying, do not use milk for human food for balance of 14 day interval. Do not apply to sick, convalescent or stressed livestock or to animals less than 3 months old. Do not spray animals for 10 days before or after shipping or weaning or after exposure to contagious and infecting diseases.

Do not spray in a confined, non-ventilated area.

Do not apply in conjunction with oral drenches or other internal medications such as phenothiazine, nor with natural or synthetic pyrethroids or their synergists or with other organic phosphates.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Individuals must limit the number of animals they treat per day with hand held sprayers to no more than 100, if the animals are treated at the maximum label rate, 200 if they are treated at ½ maximum label rate, etc.

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Premise Precautions: Do not spray in a confined, non-ventilated area. Do not treat areas such as feed bunks, mangers, or troughs where livestock feed or drink. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment.

LIMITED WARRANTY AND LIMITATION OF DAMAGES

Bayer Corporation, Agriculture Division, Animal Health warrants that this material conforms to the chemical description on the label. BAYER CORPORATION MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY, and no agent of Bayer Corporation is authorized to do so except in writing with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values, etc.

Co-Ral is a Reg. TM of the parent company Bayer AG, Leverkusen.

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