

PM 03

11556-115

10/29/97

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

Date: 10/3/97
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Co-Ral®

(coumaphos)

LIVESTOCK INSECTICIDE SPRAY

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

	Percent by Weight
Active Ingredient:	
0,0-Diethyl 0-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) phosphorothioate	5.8%
Inert Ingredients*:	94.2%
Total	100.0%

*Contains aromatic petroleum distillates.

This product contains 0.25 lb 0,0-Diethyl 0-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) phosphorothioate per half gallon.

EPA Reg No. 11556-115

EPA Est. No. 11556-KS-1

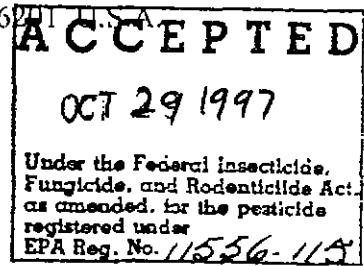
KEEP OUT OF REACH OF CHILDREN

WARNING

SEE BACK AND SIDE PANELS FOR STATEMENTS OF PRACTICAL
TREATMENT AND OTHER PRECAUTIONARY STATEMENTS

NET CONTENTS: 1.892 L (0.50 gallon)

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



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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

May be fatal if swallowed or inhaled. Do not breathe vapors or spray mist. Causes moderate eye irritation. 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 use.

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. Get medical attention if irritation appears.

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.

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ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, fish and aquatic invertebrates. Do not apply directly to any body of water. Coumaphos washed off of wading treated livestock may be hazardous to aquatic organisms. Do not contaminate water when disposing of equipment washwater or rinsate.

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 of Bayer Corporation

DIRECTIONS FOR USE

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

Co-Ral Livestock Insecticide Spray mixes easily 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.

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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 Livestock Insecticide Spray is ideal for backrubber application. When properly mixed and applied, effective 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 Livestock Insecticide Spray for use in 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.

PROTECTIVE CLOTHING STATEMENT

Applicators and other handlers must wear long sleeve shirt, long pants, chemical-resistant gloves such as barrier laminate or butyl rubber \geq 14 mils, shoes 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. Following 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 Livestock Insecticide Spray 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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USE RESTRICTIONS

For external insecticidal use only on specified animals.

Do not apply as a spray at rates above 1 quart of Co-Ral Livestock Insecticide Spray per 50 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.

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 by injection is antidotal. Consult veterinarian at the first sign of adverse reaction.

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 1/2 maximum label rate, etc.

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RECOMMENDED APPLICATIONS

DO NOT APPLY MORE THAN 8 QUARTS OF CO-RAL LIVESTOCK
INSECTICIDE SPRAY PER 50 GALLONS OF WATER. FOR LACTATING DAIRY
CATTLE DO NOT APPLY MORE THAN 1 QUART OF CO-RAL LIVESTOCK
INSECTICIDE SPRAY PER 50 GALLONS OF WATER.

ANIMAL	PARASITE	QUARTS PER 50 GALLONS OF WATER	OUNCES PER 4 GALLONS OF WATER	REMARKS
Beef and Non- Lactating Dairy Cattle	Horn Flies Lice	2	5	SPRAY TREATMENTS: Apply specified dosage for a complete wetting to run-off. Treat no more than six times per year. Do not make applications less than 10 days apart.
	Ticks	4	10	
Lactating Dairy Cattle	Lice Flies	1	2½	SPRAY TREATMENT(S): Apply specified dosage for a complete wetting to run-off. Treat no more than six times per year. Do not make applications less than 10 days apart.

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ANIMAL	PARASITE	REMARKS
Backrubber for Beef and Lactating Dairy Cattle	Horn Flies Face Flies	Mix 4 quarts Co-Ral in 13 gallons of No. 2 fuel oil or No. 2 diesel fuel (or 9 ¼ oz Co-Ral per gallon) . 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.

ANIMAL	PARASITE	QUARTS PER 50 GALLONS OF WATER	OUNCES PER 4 GALLONS OF WATER	REMARKS
Horses (Not intended for slaughter)	Horn Flies Lice	2	5	SPRAY TREATMENT(S): Apply specified dosage for complete wetting.
	Ticks	4	10	Treat thoroughly all wounds and injuries. Treat no more than six times per year. Do not make applications less than 10 days apart.

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ANIMAL	PARASITE	QUARTS PER 50 GALLONS OF WATER	OUNCES PER 4 GALLONS OF WATER	REMARKS
Swine	Lice	2	5	SPRAY TREATMENT(S): Apply specified dosage for a complete wetting to run- off. Treat no more than six times per year. Do not make applications less than 10 days apart.

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, by burning. If burned, stay out of smoke.