

All printing blue on white except as noted.



ACCEPTED
AUG 9 1975
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 11556-23

Co-Ral®

(coumaphos)

EMULSIFIABLE LIVESTOCK INSECTICIDE

~~FOR CONTROL OF GRUBS, HORN FLIES, FACE FLIES, LICE, AND TICKS~~

RESTRICTIONS

Do not apply as a spray at rates above 1 quart of CO-RAL Emulsifiable Livestock Insecticide per 100 gallons of water to lactating dairy cattle, or to non-lactating dairy cattle within 14 days of freshening. If freshening should occur within this interval after spraying, do not use milk for human food for balance of the 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 shipped or wearing, or after exposure to contagious and infectious 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.

WARNING

May be poisonous if swallowed. Harmful if inhaled or absorbed through the skin. Do not get in eyes or on skin. Do not breathe spray mist. Wash thoroughly with soap and warm water after handling. Wash contaminated clothing with soap and hot water before reuse.

Do not contaminate feed or food. Keep out of reach of children.

Do not reuse container. Destroy when empty. If poisoning occurs, obtain prompt medical aid. Prolonged exposure will result in cholinesterase depression.

To Physician: Atropine sulfate is antidotal. 2-PAM is also antidotal and may be applied in conjunction with atropine.

WARRANTY AND LIMITATIONS OF DAMAGES

We warrant that at the time of manufacture this product was true to label and reasonably fit for the purposes described in its labeling. However, there are numerous factors beyond our control, e.g. storage, diagnosis, dosage differences among individual animals, etc., which make it impossible to eliminate all risks associated with the use of this product, even if the directions are followed.

This statement is made in lieu of any other warranty, either express or implied, including any warranty of merchantability or fitness, and no representative or agent of this company is authorized to vary the terms of this warranty or the contents of the labeling of this product except by printed notice from the company's Shawnee, Kansas head office. In the event of damages arising from our breach of this warranty, damages shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profit or values, etc.

CO-RAL is a Reg. TM of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen.

ACTIVE INGREDIENTS:
O,O-Diethyl O-(3-chloro-4-methyl-2-oxo-(2H)-1-benzopyran-7-yl) phosphorothioate 11.6%
Aromatic Petroleum Distillate 83.4%
INERT INGREDIENTS: 5.0%
100.0%

GUARANTEE: Contains 1.0 lb. O,O, Diethyl O-(3-chloro-4-methyl-2-oxo-(2H)-1-benzopyran-7-yl) phosphorothioate per gallon.

EPA Reg. No. 11556-23
EPA Est. 3125-MO-1

WARNING
~~KEEP OUT OF REACH OF CHILDREN~~
Protect from freezing.
See side panel for warning statements

IMPORTANT: Read this entire label, including the Warranty and Limitation of Damages provision, before using.

USE ONLY AS DIRECTED

NET CONTENTS 1 U.S. GALLON

Manufactured for

Timing of Applications for Cattle Grub Control:

Proper timing of treatment is important. For most effective results, cattle should be treated as soon as possible after heefly activity ceases. Most parasite reactions such as bloat, salivation, staggering and paralysis may sometimes occur when cattle are treated while the common cattle grub (*Hypoderma lineatum*) is in the gutlet, or while the northern grub (*H. bovis*) is in the area of the spinal cord. Cattle should be treated either before or after these stages of grub development. Consult your veterinarian, extension livestock specialist, or extension entomologist regarding the timing of treatment.

NOTE: If it is impossible to determine the origin of the cattle, and thus the exact stage of the grubs is unknown, it is recommended that the cattle receive only a maintenance ration of low energy feed during the treatment period. This lessens the likelihood of severe bloat which may occur in cattle on full feed when the common grub is killed while in the gutlet.

For the most effective reduction of carcass damage and trim loss in cattle to be slaughtered, treatment should be applied at least 6 weeks before the expected appearance of grubs in the back.

NOTICE TO VETERINARIAN: 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 is antidotal.

CONTAINER DISPOSAL:

DO NOT REUSE THE CONTAINER — Completely empty the contents. Rinse empty container by filling with water and adding 2 tablespoonfuls of household lye. Bury rinse solution and any unused chemical at least 18 inches deep in an isolated location away from water supplies. Punch holes in the top and bottom of the can, crush and bury as above. Do not use container in any connection with feed, food or drinking water.

PROTECT WILDLIFE:

This product is toxic to fish, birds and other wildlife. Keep out of lakes, streams, or ponds. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

CO-RAL Emulsifiable Livestock Insecticide which is easily applied with ordinary sprayer for control of flies, lice, and ticks and for control of grubs.

Spray Treatment for Specified Ectoparasites: Operate spray equipment so as to thoroughly wet necessary only when insects reappear.

Backrubber Application for Horn Flies: CO-RAL Emulsifiable Livestock Insecticide When properly mixed and applied, can be achieved. Best control is obtained when treated. No. 2 furnace oil (fuel oil) or 1 CO-RAL Emulsifiable Livestock Insecticide in sludge formation that will prevent pr

Spray Treatment for Cattle Grub Control: Spray treatment(s) should be applied in comes thoroughly wet. Spray pressures of Operate box-type spray chutes at maximum tration. (See side panel for information)

DO NOT APPLY MORE THAN 1.0 QUANT PER 100 GALLONS OF WATER. FOR LACTATING DAIRY CATTLE USE 1 QUANT CO-RAL EMULSIFIABLE LIVESTOCK INSECTICIDE.

| ANIMAL | PARASITE | Quar Co-1 |
|-------------------------------------|-------------|-----------|
| Beef and Non-Lactating Dairy Cattle | Horn flies | 2 |
| | Lice | 4 |
| | Ticks | 4 |
| Beef and Lactating Dairy Cattle | Screw worms | 8 |
| | Grubs | 12 |
| Beef and Lactating Dairy Cattle | Grubs | 8 |
| | Horn flies | 4 |
| Horses (Not intended for slaughter) | Face flies | 4 |
| | Lice | 1 |
| | Horn flies | 2 |
| Swine | Lice | 2 |
| | Ticks | 4 |
| Swine | Screw worms | 8 |
| | Lice | 2 |

CUTTER ANIMAL HEALTH LABORATORIES

CUTTER ANIMAL

CUST. BAYNET CORP. DESIGN CUTTER Co-Ral NO. PROOFS 12

ENG. 1273-55.0, 242-00669 SIZE 4oz x 5 1/2 x 9 1/2 B.P. DATE 4-14-75 PROOF DATE 5-8-75

READ BEFORE SIGNING: This agreement is made between the undersigned and the parent company of Farbenfabriken Bayer GmbH, Leverkusen, Germany, for the purpose of the attached to comply with various state or federal laws, regulations, and requirements, and to certify that the undersigned is the owner of the product and that the product is being sold in the same manner as the product is sold in the United States and that the undersigned is the owner of the product and that the product is being sold in the same manner as the product is sold in the United States.

CHANGE AS DETAILED APPROVED AS SUBMITTED CUSTOMER SIGNATURE Shaion Reed DATE 5/15/75

CHANGE A
CHANGE B
CHANGE C

ARTIST

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Co-Ral (coumaphos)

ACCEPTED AUG 9 1975 Under the Federal Insecticide, Fungicide, and Rodenticide Act, registered under EPA Reg. No. 11556-23

Timing of Applications for Cattle Grub Control:

Proper timing of treatment is important. For most effective results, cattle should be treated as soon as possible after heftily activity ceases. Most parasite reactions such as bloat, salivation, staggering and paralysis may sometimes occur when cattle are treated while the common cattle grub (Hypoderma lineatum) is in the gutlet, or while the northern grub (H. bovis) is in the area of the gutlet. Cattle should be treated either before or after these stages of grub development. Consult your veterinarian, extension livestock specialist, or extension entomologist regarding the timing of treatment.

NOTE: If it is impossible to determine the origin of the cattle, and thus the exact stage of the grubs is unknown, it is recommended that the cattle receive only a maintenance ration of low energy feed during the treatment period. This lessens the likelihood of severe bloat which may occur in cattle on full feed when the common grub is killed while in the gutlet.

For the most effective reduction of carcass damage and trim loss in cattle to be slaughtered, treatment should be applied at least 6 weeks before the expected appearance of grubs in the back.

NOTICE TO VETERINARIAN: 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 overdose, atropine is antidotal.

CONTAINER DISPOSAL

DO NOT REUSE THE CONTAINER -- Completely empty the contents. Rinse empty container by filling with water and adding 2 tablespoonfuls of household lye. Bury rinse solution and any unused chemical at least 18 inches deep in an isolated location away from water supplies. Punch holes in the top and bottom of the can, crush and bury as above. Do not use container in any connection with feed, food or drinking water.

ADVERSE REACTIONS

This product is toxic to fish, birds, and other wildlife. Keep out of lakes, streams, or ponds. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

CO-RAL Emulsifiable Livestock Insecticide 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 for several weeks.

Spray Treatment for Specified Ectoparasites, Except Cattle Grubs: 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 in backrubbers. Use of other oils may result in sludge formation that will prevent proper distribution in the reservoir-type backrubber.

Spray Treatment for Cattle Grub Control: Spray treatment(s) should be applied in such a manner that the skin, not just the hair, becomes thoroughly wet. Spray pressures of 250 to 350 pounds per square inch are recommended. Operate box-type spray chutes at maximum pressure for thorough overall wetting and penetration. (See side panel for information on timing of grub treatment.)

RECOMMENDED APPLICATIONS

DO NOT APPLY MORE THAN 12 QUARTS OF CO-RAL EMULSIFIABLE LIVESTOCK INSECTICIDE PER 100 GALLONS OF WATER FOR LACTATING DAIRY CATTLE. DO NOT APPLY MORE THAN 1 QUART OF CO-RAL EMULSIFIABLE LIVESTOCK INSECTICIDE PER 100 GALLONS OF WATER.

Table with columns: ANIMAL, PARASITE, Quarts Co-Ral, REMARKS. Rows include treatments for Beef and Non-Lactating Dairy Cattle (Grubs, Lice, Ticks), Beef and Lactating Dairy Cattle (Horn flies, Face flies, Lice), Horses (Horn flies, Lice, Ticks, Screw-worms), and Swine (Lice).

EMULSIFIABLE LIVESTOCK INSECTICIDE

FOR CONTROL OF GRUBS, HORN FLIES, FACE FLIES, LICE, AND TICKS

ACTIVE INGREDIENTS:

O-Diethyl O- (3-chloro-4-methyl-2-oxo-2H)-1-benzopyran-7-yl) phosphorothioate 11.6% Aromatic Petroleum Distillate 83.4%

INERT INGREDIENTS: 5.0% 100.0%

GUARANTEE: Contains 1.0 lb. O,O, Diethyl O-(3-chloro-4-methyl-2-oxo-(2H)-1-benzopyran-7-yl) phosphorothioate per gallon.

EPA Reg. No. 11556-23 EPA Est. 3125-MO-1

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NET CONTENTS 1 U.S. GALLON

Manufactured for

0132-910

Manufactured For

CUTTER ANIMAL HEALTH LABORATORIES

CUTTER ANIMAL HEALTH LABORATORIES

Customer order form with fields for CUST. BAYVET CORP., DESIGN CUTTER Co-Ral, NO. PROOFS 12, PROOF DATE 5-8-75, CHANGE A, B, C, and SIGNATURE Sharon Reader.