pm 03 11556-98

10/29/97

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Reason to Issue:

To propose changes in accordance

with the RED

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### RESTRICTED USE PESTICIDE

Due to Acute Oral Hazard

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 Applicator's Certification

#### Co-Ral®

(coumaphos)

## FLOWABLE INSECTICIDE

For Control of Scabies on Cattle and for Control of Horn Flies, Lice, Ticks and Screwworms on Beef and Non-Lactating Dairy Cattle and Horses

Active Ingredient:

0,0-Diethyl 0-(3-chloro-4-methyl-2-oxo-2H-1-berzopyran-7-yl)

phosphorothioate

42%

Inert Ingredients:

58% 100%

Product contains 4.2 lbs of coumaphos per gallon. Shake Well Before Using

EPA Reg. No. 11556-98

EPA Est. No. 3125-MO-1

KEEP OUT OF REACH OF CHILDREN

DANGER -- 🔀 -- POISON

ACCEPTED

30T 291997

Under the Federal Insecticide, Functions and Redenitedia Reas triseded, for the porticide, regimered nodes TARES, No. 1/556, OR

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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 SIDE PANEL FOR OTHER PRECAUTIONARY STATEMENTS

#### **NET CONTENTS 2 GALLONS**

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

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## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## KEEP OUT OF REACH OF CHILDREN



Fatal if swallowed or absorbed through the skin. Do not breathe spray mist. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and warm water after handling. Wash contaminated clothing with soap and hot water before use.

This material contains a cholinesterase inhibitor. If poisoning should occur, obtain prompt medical aid.

## HAZARDS TO DOMESTIC ANIMALS (CATTLE AND HORSES)

Acute symptoms of overdosage in cattle and horses are: Frequent defectation and urination, watering of eyes and muscular twitching. Later the symptoms are: salivation, diarrhea and muscular weakness.

While no claims for control of cattle grubs are made for this product, host 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 gullet, 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 the grub cycle for your cattle based on their origin and history.

Consult veterinarian at the first sign of adverse reaction.

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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 gullet.

NOTICE TO VETERINARIAN: If the proper dosage of Co-Ral Flowable 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 sulfate by injection is antidotal.

### ENVIRONMENTAL HAZARDS

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

### STORAGE AND DISPOSAL

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

STORAGE: Not for storage in or around the home. Store in a cool, dry place.

CATTLE DIP SOLUTION DISPOSAL: Contact your Local and/or State Environmental Control Agency for specific recommendations or details for the geographical area where the dip vat is located. The Agency recommends that spent dip-vat solution be bioremediated in accordance with a method developed by the USDA. The treated solution can then be transferred to lined, shallow evaporation ponds or incorporated into the soil to encourage further degradation. If an evaporation pond is used it should be constructed to prevent overflow or flooding during wet seasons and should be lined with compacted clay, reinforced concrete or flexible membrane liner. Questions concerning the disposal of the spent solution should be directed to the waste representative at the nearest EPA Regional Office. Details are available concerning the bioremediation procedure and ultimate disposition of the remediated solution. Do not apply dried sludge or the bioremediated/treated solution to land for raising crops for human consumption."

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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.

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### PROTECTIVE CLOTHING STATEMENT

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

#### DIRECTIONS FOR USE

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

AVISO - Al Usuario: Si usted no puede leer o entender ingles, no use este productohasta que la ctiqueta le haya side explicada ampliamente. (To the user: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)

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

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

Premise Precautions: Do not spray in 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."

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FOR USE ON BEEF AND NON-LACTATING DAIRY CATTLE AND ON HORSES.

Co-Ral Flowable has been especially developed to provide a highly concentrated formulation of coumaphos. The physical properties of the formulation allow for quick initial mixing and excellent suspension, as well as ease of resuspension where settling has occurred due to lack of regular use or overwintering.

As a liquid, the difficulties and inconvenience commonly associated with mixing of wettable powders are greatly reduced or eliminated. Because Co-Ral Flowable is a much more concentrated formulation of coumaphos than previously available, a smaller amount is needed to prepare any given volume of spray or dip suspension.

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# DIP TREATMENT FOR ECTOPARASITES OF CATTLE LISTED BELOW:

Charge dip vats with accurate concentration by using exact quantity of Co-Ral Flowable and volume of water specified. Mix suspension thoroughly before each use. Passage of animals through the vat does not change concentration of remaining suspension. Water lost by evaporation should be replaced. If water is added to the vat due to rainfall or replenishment, an appropriate amount of Co-Ral Flowable should also be added. Continue to use vat until accumulation of debris makes it unsuitable for further use. NOTE. Be sure cattle have access to drinking water prior to dipping. Do not dip excessively thirsty animals.

SPRAY TREATMENT FOR ECTOPARASITES OF CATTLE AND HORSES ARE LISTED BELOW:

Co-Ral Flowable provides residual control of ectoparasites on livestock. Repeat applications will be necessary only when insects reappear and constitute a problem. Co-Ral Flowable mixes easily with water to form a suspension which is readily usable in spray equipment.

### RECOMMENDED APPLICATIONS

Do not apply more than one (1) gallon of Co-Ral Flowable per 165 gallons of water as a dip or more than one (1) gallon of Co-Ral Flowable per 200 gallons of water as a spray.

No withdrawal interval is required between applications and use of meat as food.

PARASITE	GALLONS CO-RAL FLOWABLE	REMARKS
Scabies* (Psoroptes bovis)	1	DIP TREATMENT: Mix specified amount in 165 gallons of water. Agitate dip suspension thoroughly prior to each use. Two treatments, 10 to 14 days apart, are necessary to control scabies. Do not dip more than twice per year.** Submerge each animal to assure complete coverage and thorough wetting of the skin.

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	GALLONS	
	CO-RAL	
PARASITE	FLOWABLE	REMARKS
Horn Flies	1/4	SPRAY TREATMENT: Add specified amount to 200
Lice		gallons of water and mix thoroughly. Apply for
	(1 quart)	complete wetting to run-off. Do not spray more than
		six times per year. Do not make applications less than
		10 days apart.
Ticks*	1/2 - 1	DIP TREATMENT: Mix specified quantity of
		Flowable in 200 gallons of water. Agitate dip
·	<u> </u>	thoroughly prior to each use to assure uniform
		treatment. Do not dip more than twice per year.** Do
Ĺ		not make applications less than 10 days apart.
Ticks*	1/2 - 1	SPRAY TREATMENT: Add specified amount of
		Flowable to 200 gallons of water and mix thoroughly.
} !		Apply for complete wetting to run-off. Do not spray
		more than six times per year. Do not make applications
	j	less than 10 days apart.
Screwworms*	1	SPRAY TREATMENT: Mix specified amount in 200
		gallons of water and mix thoroughly. Apply as a high
	Į	pressure spray to wet the skin, not just the hair. Do not
	ł :	spray more than six times per year. Do not make
	<u> </u>	applications less than 10 days apart.

- \* Approved as a "Permitted Pesticide" by Animal and Plant Health Inspection Service (APHIS) of the U.S. Department of Agriculture for the control of Screwworms, Scabies and Ticks in Federal Eradication Programs when used according to the directions of APHIS Veterinary Service Regulations and/or Memoranda.
- \*\* Animals should not be dipped more than twice per year unless additional treatments are required by APHIS Veterinary Services Regulations/Memoranda for Animals included in Federal Eradication Programs.

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# 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.

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.

### LIMITED WARRANTY AND LIMITATION 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 corporation is authorized to vary the terms of this warranty or the contents of the labeling of this product except by printed notice from the corporation's Shawnee Mission, Kansas 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 Bayer AG.