BEST DOCUMENT AVAILABLE

DIRECTIONS FOR USE

IMPORTANT Read these entire Directions for Use and Conditions of Sale including the Warranty and Limitation of Damages prior to use of CO-RAL 25% Wettable Powder

CONDITIONS OF SALE These Directions for Use reflect the opinion of experts based on tests of effectiveness of product to fat cattle grub and cattle lice when used as directed. However, because of the wide range of conditions under which the product may be used, even though label directions are followed, all risks must be borne by the user. To the extent consistent with the sale hereof, the Seller makes no other express or implied warranty, including that of Merchantability or Fitness for a Particular Purpose. The Buyer assumes such risks.

CO-RAL 25% Wettable Powder is used in a manner over which Seller has no control. Seller makes no warranty as to results when spray is applied to animals under adverse weather conditions.

Timing of Applications for Cattle Grub Control

Proper timing of treatments is important for most effective results. Cattle should be treated at least once during the heavy grub season. Most parasites in their early stages are killed by contact with the insecticide. However, the grub in the cattle's back is protected by the animal's own tissue and paralysis may not occur until it reaches the esophageal canal. Treatment when the grub is in the esophageal canal is most effective. Cattle should be treated either **before** or **after** these stages of grub development. Consult your veterinarian or state or local extension specialist for assistance in determining the most effective time for treatment.

NOTE: It is not possible to determine the exact stage of the cattle grub by the exact stage of the grub's development. It is recommended that the cattle receive only a maintenance ration of the energy feed during the treatment period. This lessens the chance of severe illness which may occur in cattle on full feed when the common grub is killed while in the esophagus.

For the most effective reduction of carcass damage and milk loss, cattle should be systemically treated. Treatment should be done at least 6 weeks prior to the expected appearance of grubs in the back.

NOTICE TO VETERINARIAN If the proper dosage of CO-RAL 25% Wettable Powder has been applied and adverse reactions have been excessive, so you may wish to consult a highly qualified veterinarian regarding treatment of affected animals. Administer symptomatic treatment. Anti-histaminic agents may be helpful. If necessary, relieve effect by hydrotherapy, such as a strong hose spray. Hypothermia is severely taxing to animals. Do not confuse other symptoms of illness with those associated with insecticide poisoning. If toxicity should occur, consult veterinarian. Some antidotes are listed.

Spray Treatment for Cattle Grub Control

Spray treatments 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 sq. inch are recommended. Operate hose type spray nozzles at maximum pressure for thorough overall wetting and penetration.

Spray Treatment for Ectoparasites Listed Below, Except Cattle Grubs

CO-RAL provides residual control of ectoparasites on livestock and poultry. Repeat applications will be necessary only when insects reappear and constitute a problem.

Dip Treatment for Grubs, Scabies, Lice, Horn Flies, Ticks, Keds, Flyeeworms

Change dip vats with accurate concentration by using exact quantity of CO-RAL and volume of water specified. Mix suspension thoroughly before each use.

Passage of animals through the vat does not change strength of remaining suspension. Merely replace evaporation with water or add equivalent amount of CO-RAL from rainfall or added water. Continue to use vat until accumulation of debris makes it unsuitable for further use. **NOTE:** Be sure free access to drinking water is available to animals prior to dipping. Do not dip excessively thirsty animals.

RESTRICTIONS

Do not apply as a spray to lactating dairy cattle at rates over 1 lb. of CO-RAL 25% Wettable Powder per 100 gallons of water. Do not treat lactating dairy goats.

Do not treat non-lactating dairy cattle at rates over 1 lb. of CO-RAL 25% Wettable Powder per 100 gallons of water within 14 days of freshening. If freshening should occur within 14 days after treatment at higher rates, **do not use milk as human food for the balance of the 14 day interval.**

Do not treat non-lactating dairy goats within 14 days of freshening. If freshening should occur within 14 days after treatment, do not use milk as human food for the balance of the 14 day interval.

Do not apply to sick, emaciated or stressed animals or to animals less than 3 months old except in Federal or State eradication programs Screw worms, Scabies, Cattle Fever Ticks, where immediate treatment of all animals in an infested herd is mandatory.

Do not treat animals for 10 days before or after shipping, marketing or other exposure to contagious and infectious diseases except in Federal or State eradication programs, Screw worms, Scabies, Fever Ticks where immediate treatment of all animals in an infested herd is mandatory.

Do not dip animals when overheated.

Do not spray within 10 days of vaccination or other stress influences.

Do not spray in a confined or poorly ventilated area.

Do not apply in conjunction with oral drenches or other internal medicines, such as phenothiazine.

CO-RAL is a cholinesterase inhibitor. Do not use this product on animals treated orally or within a few days before or after treatment with organophosphorus cholinesterase inhibiting drugs, pesticides or chemicals. Atropine is antidotal. Consult veterinarian at first sign of adverse reaction.

CONTAINER DISPOSAL

Do not reuse empty container. Destroy it by burying with waste or burning. Stay away from smoke or fumes.

CO-RAL is a Reg. Tm. of the German trademark proprietor, Leverkusen.
FGG057 370220

TAKE TIME
OBSERVE LABEL DIRECTIONS

Chemagro

ACCEPTED
Apr 17, 1973
11556-21
FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT

CO-RAL®

(coumaphos)

ANIMAL INSECTICIDE

25% WETTABLE POWDER

FOR CONTROL OF SPECIFIED ANIMAL PARASITES

STORE IN A COOL DRY PLACE

NET WEIGHT 48 POUNDS

BATCH NO.

WARNING

KEEP OUT OF REACH OF CHILDREN

(See other panel for warning statements)

GUARANTEE

ACTIVE INGREDIENTS:	
(3,3) Diethyl (3 chloro-4-methyl 2-oxo (2H-1-benzopyran 7-yl) phosphorothioate	25.0%
Related Organic Phosphates	1.3%
INERT INGREDIENTS	73.7%
	100.0%

EPA Reg. No. 11556-21-AA

USE ONLY AS DIRECTED

MANUFACTURED BY

Chemagro

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RECOMMENDED APPLICATIONS

[illegible] THAN [illegible] POUNDS OF CORAL 25% WETTABLE POWDER PER [illegible] GALLONS OF WATER AS A SPRAY OR [illegible] THAN [illegible] POUNDS OF CORAL [illegible] WETTABLE POWDER PER 100 GALLONS OF WATER AS A DIP. [illegible] THAN [illegible] POUNDS OF CORAL [illegible] WETTABLE POWDER PER [illegible] GALLONS OF WATER AS A SPRAY TO TREAT MANY CATTLE.

ANIMAL	PARASITE	Pounds CORAL 25%	REMARKS
[illegible]	[illegible]	[illegible]	**SPRAY TREATMENT** [illegible]
[illegible]	[illegible]	[illegible]	**SPRAY TREATMENTS** [illegible]
[illegible]	[illegible]	[illegible]	**DIP TREATMENT** [illegible]
[illegible]	[illegible]	[illegible]	**DIP TREATMENTS** [illegible]
[illegible]	[illegible]	[illegible]	**SPRAY OR DIP TREATMENT** [illegible]
[illegible]	[illegible]	[illegible]	**SPRAY TREATMENT** [illegible]
[illegible]	[illegible]	[illegible]	**SPRAY OR DIP TREATMENT** [illegible]
[illegible]	[illegible]	8	
[illegible]	[illegible]	[illegible]	**DIP TREATMENTS** [illegible] Agitate [illegible] Submerge animals to assure complete coverage and thorough wetting of the skin. Do not treat within [illegible] days of slaughter.
Goats	[illegible]	2	**SPRAY OR DIP TREATMENT** [illegible] Thoroughly wetting. Treat [illegible] Repeat as necessary but not within [illegible] days of slaughter.
	[illegible]	4	
	[illegible]	8	
Horses Swine	[illegible]	2	**SPRAY TREATMENT:** Apply specified dosage in [illegible] gallons of water for complete wetting [illegible] Thoroughly treat all [illegible] and [illegible] Repeat as necessary.
	[illegible]	4	
	[illegible]	8	
Poultry Chickens, Ducks, Geese & Turkeys	Northern Fowl Mite	3 ounces	**DIRECT APPLICATION:** Apply specified [illegible] 1 or 2 ounces in 5 gallons of water as a low pressure spray using approximately 1 gallon per 100 to 125 birds. [illegible] may be treated with about [illegible] of the spray. Supplementary [illegible] by treatment of [illegible] Repeat as necessary but not more than weekly.
	Lice	[illegible] ounces	
	[illegible]	[illegible]	**LITTER AND HOUSING TREATMENT:** Apply [illegible] 5 gallons of water for thorough coverage of litter [illegible] pests and [illegible] Fine spray into all cracks and [illegible] approximately 1 gallon per [illegible] square feet of area. Repeat as necessary.

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 dust or 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.

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 administered in conjunction with atropine.

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.

WARRANTY AND LIMITATION OF DAMAGES

Chemagro warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale subject to the risks referred to therein. CHEMAGRO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, and no agent of Chemagro 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.

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