 <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460</p> <p style="text-align: center;">NOTICE OF PESTICIDE: <u> </u> Registration <u> X </u> Reregistration</p> <p>(under FIFRA, as amended)</p>	EPA Reg. Number: 11556-23	Date of Issuance: SEP 10 2002
	Term of Issuance: Unconditional	
	Name of Pesticide Product: Co- Ral Emulsifiable Livestock Insecticide	
Name and Address of Registrant (include ZIP Code): Bayer Corporation P.O. Box 390 Shawnee Mission, KS 66201-0390		
<p>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section 3(c)(2)(B).</p> <p>1. Make the labeling changes listed below before you release the product for shipment:</p> <p style="padding-left: 40px;">a. Add the phrase "EPA Registration No. 11556-23".</p>		
Signature of Approving Official:		Date:

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2. Submit two (2) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosures

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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)
Emulsifiable Livestock Insecticide**

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

	<u>Percent by Weight</u>
Active Ingredient:	
0,0-Diethyl 0-(3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-yl) phosphorothioate	11.6%
Other Ingredients*	<u>88.4%</u>
TOTAL	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.

EPA Reg. No. 11556-23

EPA Est. No. TBD

KEEP OUT OF REACH OF CHILDREN

DANGER --  -- POISON

PELIGRO

Fatal if swallowed. Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

**See Side Panel for First Aid and
Other Precautionary Statements**

NET CONTENTS: 1 Quart (946 mL)

Bayer Corporation, Agriculture Division, Animal Health
Shawnee Mission, Kansas 66201
Use only as directed. See label for complete directions.
EPA Reg. No. 11556-23
EPA Est. No. TBD
EPA Letter Dated 8/20/02

SEP 10 2002

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, this product is registered under EPA

11556-23

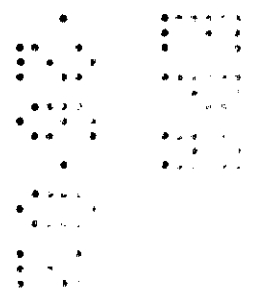
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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

FIRST AID	
Contains an organophosphate that inhibits cholinesterase.	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give <u>any</u> liquid to the person. • Do not give anything by mouth to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
Note 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. Contains petroleum distillate - vomiting may cause aspiration pneumonia.	
HOTLINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical treatment information, call 1-877-258-2280. For product information, call 1-800-633-3796.	



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DANGER --  -- POISON
PELIGRO

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are barrier laminate and viton (≥ 14 mils). If you want more options, follow the instructions for Category G on an EPA chemical-resistance category selection chart.

Mixers, loaders, and others exposed to the concentrate (such as during a spill or equipment breakdown) must wear long-sleeve shirt and long pants, chemical-resistant gloves, chemical-resistant footwear plus socks, chemical-resistant apron, and face shield or goggles.

Applicators and all other handlers exposed to the diluted product must wear long-sleeve shirt and long pants, chemical-resistant gloves, and chemical-resistant footwear plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from the other laundry.

User Safety Recommendations

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 PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, birds, fish and aquatic invertebrates. Coumaphos washed off of wading treated livestock may be hazardous to aquatic organisms. Do not

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contaminate water when disposing of equipment washwater or rinsate. Apply this product only as specified on this label.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label and Conditions of Sale before using this product.

APPLICATION 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 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.

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 treat areas such as drinking cups, mangers, or troughs where livestock feed. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment.

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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.

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 or allow others to contact treated animals until their coats are dry.

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.

ATTENTION
CONTENTS MUST BE DILUTED BEFORE USE



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APPLICATION RATES

Do not apply more than 5 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	
Beef and Lactating Dairy Cattle	Horn Flies Face Flies	9 ¾	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.

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ANIMAL	PARASITE	Fl. oz. Co-Ral	REMARKS
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	
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.

STORAGE AND DISPOSAL

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

PESTICIDE 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.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE APPROPRIATE FOR THE CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED UNDER DIFFERENT ENVIRONMENTAL CONDITIONS BOTH INDOORS AND OUTDOORS SIMILAR TO THOSE THAT ARE ORDINARY AND CUSTOMARY WHERE THE PRODUCT IS TO BE USED. INSUFFICIENT CONTROL OF PESTS OR PLANT INJURY MAY RESULT FROM THE OCCURRENCE OF

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EXTRAORDINARY OR UNUSUAL CONDITIONS, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO ANIMALS, MAN, AND DAMAGE TO THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL ENVIRONMENTAL CONDITIONS, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

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

