

**ACCEPTED**  
 JUN 30 1975  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 as amended, for the pesticide  
 registered under  
 EPA Reg. No. 407-386

*Imperial*

**DIRECTIONS FOR USE**

IMPERIAL 1% COUMAPHOS INSECTICIDE may be used to fill cattle dust bags or it may be applied directly to cattle, swine or swine bedding by use of a shaker can or suitable mechanical dust applicator. When used as recommended, IMPERIAL 1% COUMAPHOS INSECTICIDE controls horn flies and lice on beef and dairy cattle and lice on swine. It will also reduce face fly populations. However, as face flies are able to travel over an area of several miles, best reduction of this pest is achieved when this product is used on an area-wide basis.

**RECOMMENDED APPLICATIONS**

**BEEF AND DAIRY CATTLE:** To control horn flies, lice and aid in the control of face flies. Dust Bag—Place the contents of this package in any commercially available dust bag. Suspend bags in areas frequented by cattle or in gateways or lanes through which the animals pass daily for water, feed or minerals. Do not hang bags directly over feed, minerals or water. Bags may also be suspended in loafing sheds or in front of protected mineral feeders. For lactating dairy cows, bags may be suspended in the exit through which the cows leave the milking barn. In all cases, the bags should be adjusted so that the bottom of the bag will hang 4"-6" below the top line of the animals treated. As an aid in controlling face flies, bags must be located so that animals will be forced to use them daily and hung at a height to insure that the faces of the animals will be dusted.

To control horn flies and lice. Direct Application—IMPERIAL 1% COUMAPHOS INSECTICIDE may be applied by use of a shaker can or by using a suitable mechanical duster. Apply 2.0 ounces of dust per animal by shaker can or suitable mechanical duster over the head, neck, shoulders, back and tailhead. Repeat as necessary.

**SWINE:** To control lice. Direct Application—apply not more than 1 oz. (3 level tablespoonsful) per head as a uniform coat to the head, shoulders, and back by use of a shaker can or suitable mechanical duster. Repeat as necessary but not more often than once every 10 days. Bedding Treatment—Apply 2 oz. (6 level tablespoonsful) uniformly over each 30 sq. ft. of fresh, dry bedding by use of a shaker can or suitable mechanical duster. Repeat as necessary but not more often than once every 10 days.

Direct Application and Bedding Treatment: In severe infestations both individual animals and bedding may be treated as directed above.

No interval is required between treatment and slaughter or treatment and use of milk as a food.

Do not dust animals in confined, unventilated area.

For external, insecticidal use on the above listed animals only. Avoid contamination of feed, troughs, water and water utensils. Provide thorough ventilation while dusting. Persons treating animals should avoid repeated direct contact with skin or inhalation of dust.

**CAUTION**

Harmful if inhaled or absorbed through the skin. Do not get in eyes or on skin. Do not breathe dust. Wash thoroughly with soap and water after handling. Do not contaminate feed or food supplies.

To the Physician: Prolonged exposure will result in cholinesterase depression. Atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

**1% COUMAPHOS  
 INSECTICIDE**

**Contains CO-RAL®**

**ACTIVE INGREDIENTS:**

O,O-Diethyl O-(3-chloro-4-methyl-2-oxo-[2H]-1-benzopyran-7-yl) phosphorothioate ..... 1.0%

**INERT INGREDIENTS:** ..... 99.0%

**Total** ..... **100.0%**

®CO-RAL is a registered trademark of the Parent Company of  
 Farbenfabriken Bayer GmbH, Leverkusen.

**CAUTION**

**KEEP OUT OF REACH OF CHILDREN**

**See Side Panel for Additional Precautionary Statements**

ever, as face flies are able to travel over an area of several miles, best reduction of this pest is achieved when this product is used on an area-wide basis.

### RECOMMENDED APPLICATIONS

**BEEF AND DAIRY CATTLE:** To control horn flies, lice and aid in the control of face flies. Dust Bag—Place the contents of this package in any commercially available dust bag. Suspend bags in areas frequented by cattle or in gateways or lanes through which the animals pass daily for water, feed or minerals. Do not hang bags directly over feed, minerals or water. Bags may also be suspended in loafing sheds or in front of protected mineral feeders. For lactating dairy cows, bags may be suspended in the exit through which the cows leave the milking barn. In all cases, the bags should be adjusted so that the bottom of the bag will hang 4"-6" below the top line of the animals treated. As an aid in controlling face flies, bags must be located so that animals will be forced to use them daily and hung at a height to insure that the faces of the animals will be dusted.

To control horn flies and lice. Direct Application—IMPERIAL 1% COUMAPHOS INSECTICIDE may be applied by use of a shaker can or by using a suitable mechanical duster. Apply 2.0 ounces of dust per animal by shaker can or suitable mechanical duster over the head, neck, shoulders, back and tailhead. Repeat as necessary.

**SWINE:** To control lice. Direct Application—apply not more than 1 oz. (3 level tablespoonsful) per head as a uniform coat to the head, shoulders, and back by use of a shaker can or suitable mechanical duster. Repeat as necessary but not more often than once every 10 days. Bedding Treatment—Apply 2 oz. (6 level tablespoonsful) uniformly over each 30 sq. ft. of fresh, dry bedding by use of a shaker can or suitable mechanical duster. Repeat as necessary but not more often than once every 10 days.

Direct Application and Bedding Treatment: In severe infestations both individual animals and bedding may be treated as directed above.

No interval is required between treatment and slaughter or treatment and use of milk as a food.

Do not dust animals in confined, unventilated area.

For external, insecticidal use on the above listed animals only. Avoid contamination of feed, troughs, water and water utensils. Provide thorough ventilation while dusting. Persons treating animals should avoid repeated direct contact with skin or inhalation of dust.

### CAUTION

Harmful if inhaled or absorbed through the skin. Do not get in eyes or on skin. Do not breathe dust. Wash thoroughly with soap and water after handling. Do not contaminate feed or food supplies.

**To the Physician:** Prolonged exposure will result in cholinesterase depression. Atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

### ENVIRONMENTAL CAUTIONS

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 waste. Apply this product only as specified on this label.

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

### NOTICE

Seller makes no warranty of merchantability, fitness for any purpose, or otherwise, express or implied concerning this product or its uses which extend beyond the use of the product under normal conditions in accord with the statements made on this label.

# 1% COUMAPHOS INSECTICIDE

## Contains CO-RAL®

### ACTIVE INGREDIENTS:

O,O-Diethyl O-(3-chloro-4-methyl-2-oxo-[2H]-1-benzopyran-7-yl) phosphorothioate ..... 1.0%

INERT INGREDIENTS: ..... 99.0%

Total ..... 100.0%

CO-RAL is a registered trademark of the Parent Company of  
Farbenfabriken Bayer GmbH, Leverkusen.

### CAUTION

## KEEP OUT OF REACH OF CHILDREN

See Side Panel for Additional Precautionary Statements

NET CONTENTS \_\_\_\_\_

EPA Reg. No. 407-388  
EPA Est. 407-1A-1

O-4281B-D

Manufactured By

# IMPERIAL INC.

SHENANDOAH, IOWA 51601

# CENOL 40% TENSITE

## EMULSION CONCENTRATE with CHLORDANE FOR CONTROL OF CERTAIN CRAWLING AND FLYING INSECTS

<b>ACTIVE INGREDIENTS:</b>	<b>By Weight</b>
*Technical Chlordane .....	40.00%
Petroleum Distillate .....	50.00%
<b>INERT INGREDIENTS:</b>	<b>10.00%</b>
<b>TOTAL</b> .....	<b>100.00%</b>

\*Equivalent to 24% octachloro — 4, 7 — methanotetrahydroindane and 16% related compounds.

**CAUTION:** Keep out of reach of children. Read caution and antidote statement on back panel.

**NET CONTENTS — 1 QUART**

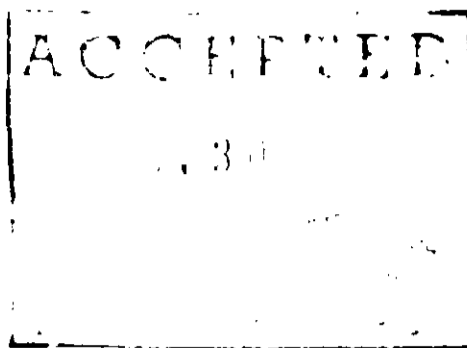
**Manufactured by CENOL CO., INC., CHICAGO, ILL. 60651**

**CAUTION:** Harmful if swallowed. Contact with skin can cause toxic symptoms. Avoid breathing spray mist. In case of contact with skin, wash with soap and water. Avoid contamination of food and feedstuffs. Keep away from children and house pets. Toxic to fish and wildlife. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes and containers. Keep away from open flame. Do not feed forage treated crops to dairy cattle. Birds feeding over treated lawn may be harmed. Do not contaminate ornamental fish ponds. **ANTIDOTE:** Internal—Emetic of 1 tablespoon mustard in tumbler of water. Call a physician.

U.S.D.A. Reg. #419-041

CROP AND INSECT PESTS	DOSAGE/ACRE	DIRECTIONS
<b>VEGETABLES—</b>		
Asparagus—	1 pt/40 gal. water	Make post cutting applications only.
Asparagus Beetle		
Cabbage and other Cole Crops (Broccoli, Brussel Sprouts, Cauliflower, Callers, Kale, Kohl Rabi)—	1 pt/40 gal. water	Newly Set Plants: Spray around base of plants as soon as set in the field. Stir the treatment into the soil. One or two repeated applications are frequently needed.
Cabbage Maggot	1 pt/5 gal. water	Transplanting Dip: Swish roots and crowns through mixture just before setting. Protection is limited to newly set plants. Apply spray around base of the plants as soon as set in the field. Stir the treatment into the soil. One or two repeated applications are frequently needed. Do not use on green or spring onions.
Onions—	1 pt/40 gal. water	
Onion Maggot		
<b>FRUIT</b>		
Strawberry—Crown borer, Spittlebug, and Strawberry weevil.	1-1 1/2 pt/40 gal. water	Spray the plants. There should be no application after fruit begins to form.
<b>SHADE TREES, ORNAMENTALS, PERENNIALS AND ANNUALS:</b>		
Arborvites and Junipers—Bogworms	1 pt/38 gal. water	Apply in late spring when insects are first observed. Apply to the entire plant when injury is noticed.
Camellia—	1 pt/38 gal. water	Apply spray to entire plant.
Leaf Beetles	1 pt/38 gal. water	Apply when new growth starts or mines are first observed in the leaf.
Holly—Leaf Beetles	1 pt/38 gal. water	Make application in latter part of May. Repeat in 2 or 3 weeks if necessary.
Magnolia—Leafminers	1 pt/38 gal. water	
Maple and Rhododendron—	1 pt/38 gal. water	
Leaf Bugs		
Oak—Thrips	1 pt/38 gal. water	Make application to tree when insects are present.
Apply sprays until runoff appears on above plants.		

HOUSEHOLD AREA & INSECT PESTS	CONCENTRATION	DIRECTIONS
Inside Home—Ants	8 oz/1 gal. water	Thoroughly spray or paint on trails and areas around door sills and window frames, where ants may enter. Treat opening around water pipes, heat ducts, electrical outlets and baseboards where ants may come into rooms from wall spaces and partitions. Repeat applications as necessary.
Carpenter Beetles	8 oz/1 gal. water	Thoroughly spray or paint infested areas of carpets localized areas of floors and baseboard, shelves of closets. Repeat application as necessary.
Centipedes and Spiders	8 oz/1 gal. water	Thoroughly spray or paint infested baseboards, corners, pipes, storage localities and other infested areas in basements. Repeat application as necessary to maintain effective control.
Crickets	8 oz/1 gal. water	Thoroughly spray or paint baseboards, floors of closets, storage places and other hiding places. Repeat application as necessary.
Roaches and Waterbugs	8 oz/1 gal. water	Thoroughly spray or paint infested cracks and other hiding places and of adjacent exposed surfaces where roaches will crawl when they come out of hiding. Repeat application as necessary.
Silverfish	8 oz/1 gal. water	Thoroughly spray or paint baseboards, areas behind shelving, bookcases, and storage areas.
<b>TERMITE CONTROL</b> In Buildings—	1 qt/10 gal. water	Apply emulsion as follows (1) Slab-Type Construction (A) Apply 1 gallon per 10 sq. ft. as an



# Imperial

## 1% COUMAPHOS INSECTICIDE

### Contains CO-RAL<sup>®</sup>

<b>ACTIVE INGREDIENTS:</b>	
O,O-Diethyl O-(3-chloro-4-methyl-2-oxo-1,2,3,4-tetrahydro-1H-benzopyran-7-yl) phosphorothioate	1.0%
<b>INERT INGREDIENTS:</b>	99.0%
Total	100.0%

CO-RAL is a registered trademark of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen

**CAUTION**  
**KEEP OUT OF REACH OF CHILDREN**  
See Side Panel for Additional Precautionary Statements

NET CONTENTS

Manufactured By  
**IMPERIAL INC.**  
SHELVING TO YOUR CONVENIENCE

### DIRECTIONS FOR USE

IMPERIAL 1% COUMAPHOS INSECTICIDE may be used to control house flies, stable flies, and other biting insects in the following manner: Place the contents of this package in a clean, available dust bag. Suspend bags in areas frequented by the insects, in places through which the animals pass daily for water and feed. Suspend bags directly over feed mangers or water troughs. Bags may also be suspended in loafing sheds or in front of protected animal shelters. For best results, rows of bags may be suspended in the exact line of the animal's eye. In the milking barn, in all cases, the bags should be at least 4 feet above the animal's head and will hang 4 to 6 feet from the side of the animal's head. At least 10 feet from the bags must be a place where the animal can rest its head and hang its ears. In all cases, the bags should be replaced every 10 days.

### RECOMMENDED APPLICATIONS

**BEEF AND DAIRY CATTLE:** To control house flies and other biting insects in the following manner: Place the contents of this package in a clean, available dust bag. Suspend bags in areas frequented by the insects, in places through which the animals pass daily for water and feed. Suspend bags directly over feed mangers or water troughs. Bags may also be suspended in loafing sheds or in front of protected animal shelters. For best results, rows of bags may be suspended in the exact line of the animal's eye. In the milking barn, in all cases, the bags should be at least 4 feet above the animal's head and will hang 4 to 6 feet from the side of the animal's head. At least 10 feet from the bags must be a place where the animal can rest its head and hang its ears. In all cases, the bags should be replaced every 10 days.

To control house flies and other biting insects in the following manner: Place the contents of this package in a clean, available dust bag. Suspend bags in areas frequented by the insects, in places through which the animals pass daily for water and feed. Suspend bags directly over feed mangers or water troughs. Bags may also be suspended in loafing sheds or in front of protected animal shelters. For best results, rows of bags may be suspended in the exact line of the animal's eye. In the milking barn, in all cases, the bags should be at least 4 feet above the animal's head and will hang 4 to 6 feet from the side of the animal's head. At least 10 feet from the bags must be a place where the animal can rest its head and hang its ears. In all cases, the bags should be replaced every 10 days.

**SWINE:** To control house flies and other biting insects in the following manner: Place the contents of this package in a clean, available dust bag. Suspend bags in areas frequented by the insects, in places through which the animals pass daily for water and feed. Suspend bags directly over feed mangers or water troughs. Bags may also be suspended in loafing sheds or in front of protected animal shelters. For best results, rows of bags may be suspended in the exact line of the animal's eye. In the milking barn, in all cases, the bags should be at least 4 feet above the animal's head and will hang 4 to 6 feet from the side of the animal's head. At least 10 feet from the bags must be a place where the animal can rest its head and hang its ears. In all cases, the bags should be replaced every 10 days.

For best results, rows of bags may be suspended in the exact line of the animal's eye. In the milking barn, in all cases, the bags should be at least 4 feet above the animal's head and will hang 4 to 6 feet from the side of the animal's head. At least 10 feet from the bags must be a place where the animal can rest its head and hang its ears. In all cases, the bags should be replaced every 10 days.

Not to be used in conjunction with other insecticides unless specifically recommended by the manufacturer.

Do not use in areas where the insecticide may be harmful to other animals.

Do not use in areas where the insecticide may be harmful to other animals.

### CAUTION

Handle with care. Avoid contact with skin and eyes. Wash thoroughly after use.

To the Physician: For information on the use of this insecticide, see the accompanying literature.

### ENVIRONMENTAL CAUTIONS

Do not use in areas where the insecticide may be harmful to other animals.

Do not use in areas where the insecticide may be harmful to other animals.

### NOTICE