



KORLAN* 4E

LIVESTOCK SPRAY, DIP AND BACKRUBBER

KILLS: Lice, ticks, hornflies, face flies, wool maggots, sheep keds.
One gallon makes up to 400 gallons of dip.

ACTIVE INGREDIENTS:

Ronnel* [O,O-dimethyl O(2,4,5-trichlorophenyl) phosphorothioate†]	41.2%
Aromatic petroleum derivative solvents	29.3%
Inert Ingredients	29.5%

E.P.A. Registration No. 464-330-AA

* Trademark of The Dow Chemical Company abroad
† From technical grade; not suitable for internal use in animals.
(Contains 4 pounds ronnel per gallon)

PRODUCT ADVANTAGES

Makes a highly stable livestock dip in hard or soft water • Makes both spray and dip • Excellent wetting as spray or dip • Readily mixes with oil for back-rubber use • For livestock of all ages, newborn too! • This one really works

LIVESTOCK REMEDY, NOT FOR HUMAN USE

USE PRECAUTIONS

- Do not dip or spray sheep and goats within 28 days of slaughter.
- Do not spray beef cattle with 3/4% KORLAN 4E within 14 days of slaughter.
- Do not dip or spray beef cattle with 1/2% KORLAN 4E within 7 days of slaughter. Beef cattle may be dipped or sprayed with 1/8% or 1/4% any time prior to slaughter. Backrubber may be used any time on beef or dairy cattle.
- Do not use spray or dip on animals producing milk for human consumption. Dairy cows should be treated early in their dry period.
- Do not spray dairy animals with 3/4% of KORLAN 4E for 14 days prior to freshening. If dairy cows or heifers freshen within 14 days of the last spray treatment, milk must not be used for food for the required 14 days after the last spray treatment with 3/4% KORLAN 4E.
- Do not spray dairy animals with 1/4% or 1/2% KORLAN 4E for 7 days prior to freshening. If dairy cows or heifers freshen within 7 days of the last spray treatment, milk must not be used for food for the required 7 days after the last spray treatment with 1/4% or 1/2% KORLAN 4E.
- Remove lactating dairy animals from buildings while applying residual fly sprays.
- Do not allow insecticide to come in contact with food, feed or water supplies. This product is toxic to fish. Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment, or disposal of wastes.
- Warning:** Ronnel is a cholinesterase inhibitor. Do not use this product on animals simultaneously or within a few days before or after treatment with or exposure to cholinesterase-inhibiting drugs, pesticides, or insecticides.

DIRECTIONS

KORLAN 4E insecticide concentrate mixes readily with water for spray and dip and with oil for backrubber use. Follow directions given in the tables.

DIP RECOMMENDATIONS

PROBLEM	Ronnel (%)	Amount KORLAN 4E for			REMARKS
		Initial charge of vat		Recharge rate	
		100 gal	1000 gal	300 gal	
LIVESTOCK INSECTS					1. Dipping solution should be thoroughly stirred prior to use. Run 25-30 head through the vat as "stirrers" and then return them to the main herd to be redipped. 2. To maintain proper concentration recharge vat when 300 gallons of dip solution has been removed by animals. 3. To replace evaporation loss add water up to previous level of dip solution. 4. If flooding has occurred add KORLAN 4E at the recharge rate. 5. Retreat as necessary but not more often than every 2 weeks.
Cattle and Calves:					
Lice	1/8%	1 qt	2 1/2 gal	9 pt	
Hornflies, ear ticks and screwworms	1/4%	2 qt	5 gal	9 qt	
Sheep, Goats, Lambs, and Kids:					
Lice, sheep keds, and hornflies	1/4%	2 qt	5 gal	9 qt	
Wool maggots and screwworms	1/2%	1 gal	10 gal	4 1/2 gal	
Hogs: Lice	1/4%	2 qt	5 gal	9 qt	

BACKRUBBER RECOMMENDATIONS

Cattle Backrubber - For hornflies. Aids in the control of lice if used continuously. Aids in the control of face flies if backrubber is placed so animals can rub face. Place where animals regularly travel or congregate.
Mix 1 gallon KORLAN 4E with 55 gallons diesel or mineral oil. Saturate fibre. Recharge necessary. Do not mix with used motor oil.

SPRAY RECOMMENDATIONS

PROBLEM	Ronnel (%)	Amount KORLAN 4E for			REMARKS
		1 gal	25 gal	100 gal	
LIVESTOCK INSECTS					Dilute with water only. Spray entire animal wet thoroughly. Retreat as necessary but not more often than every 2 weeks.
Cattle and Calves:					
Hornflies, ear ticks and screwworms	1/2%	1 1/3 oz	2 pt	1 gal	
Lice	1/4%	2/3 oz	1 pt	2 qt	
Lone Star and Winter Ticks	3/4%	2 oz	3 pt	1 1/2 gal	
Sheep, Goats, Lambs and Kids:					
Hornflies, screwworms and wool maggots	1/2%	1 1/3 oz	2 pt	1 gal	
Lice and sheep keds	1/4%	2/3 oz	1 pt	2 qt	
Hogs: Lice	1/4%	2/3 oz	1 pt	2 qt	
RESIDUAL FLY SPRAY					Spray walls, ceilings, partitions to obtain complete coverage with no runoff. Use 1 gallon of diluted spray per 500-1000 sq. ft.
A 1/2% spray will give about 2 weeks control. A 1% spray will give 4-6 weeks control.					
Farm Buildings: poultry houses, livestock shelters, milk room, dairy and hog barns.	1/2% or 1%	1 1/3 oz or 2 2/3 oz	1 qt or 2 qt	1 gal or 2 gal	Add 3 ounces of sugar per gallon for added effectiveness. To prevent contamination keep milk and milking equipment covered when spraying.