

SEP 20 1988

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17 / 1

Lee Johnson, Ph.D.
V.M.S., Inc.
1080 Wilbanks Street
Montgomery, AL 36195

Dear Dr. Johnson:

Subject: Amendment - Change in Inert Ingredients
and Revised Labeling
V.M.S. Mineral Mix-6 with Rabon Oral Larvicide
EPA Registration No. 10461-7
Your Application Dated December 11, 1987
Your Letter Dated March 17, 1988

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling.

1. Change ACTIVE INGREDIENTS to the singular.
2. Change INGREDIENTS to FEED INGREDIENTS.
3. Delete "AND GUARANTEED." See paragraph 11 in our letter dated March 25, 1976.
4. Delete "GENERAL CLASSIFICATION."
5. Delete "SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS."
6. Delete "for 15 minutes" in the If In Eyes statement.
7. Add "no" before "more" in the sentence "Put out more than one month's supply, etc."
8. Revise the Storage and Disposal block. See PR Notice 83-3.

05591:I:Newkirk:LR-7:KENCO:6/14/88:6/23/88:rw:vo:ck:rw
R:58653:Newkirk:LR-7:KENCO:6/29/88:8/11/88:rw

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

-2-

~~The product name is that given above. Consideration of a product name change will be given upon receipt of acceptable labeling.~~

Please provide the following product chemistry information.

1. Provide the upper and lower certified limits based on the pure active ingredients rather than the technical or concentrate. Note that the lower limit of the active must be the same as the label claim.
2. Based on the current Confidential Statement of Formula (CSF) dated December 11, 1987, your product will not meet the label claim for the active ingredient. Please revise the label or the CSF so the information agrees.
3. Provide the EPA Registration Number for the source of the active ingredient.

~~The printed labels submitted with your letter of March 17, 1988 are not acceptable and are returned without comment or accepted stamp.~~

Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

George T. LaRocca
Product Manager (15)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosures

Reg no: 10461-7

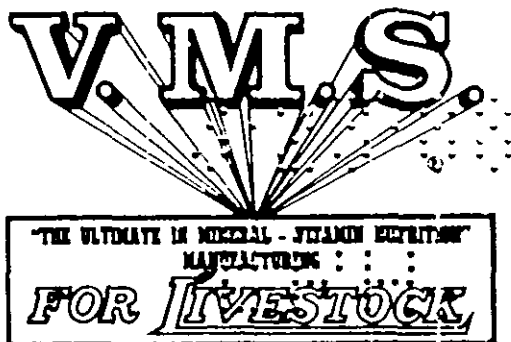
PM-15

3 9 6

50 LB

NET WEIGHT

22.7 KG



MINERAL MIX 6 (Two-One)

WITH

RABON® ORAL LARVICIDE

To prevent the development of horn flies, face flies, house flies and stable flies in the manure of treated cattle

ACTIVE INGREDIENTS:

*2-chloro-1-(2,4,5-trichlorophenyl)
vinyl dimethyl phosphate

INERT INGREDIENTS**

BY WEIGHT

1.00%

99.00%

TOTAL 100.00%

*Each pound contains 4.5 g RABON®

**Refers only to ingredients which are not larvicidal

EPA REG. NO. 10461-7

EPA EST. NO. 10461-AL-1

RABON® is a registered trademark of Shell Oil Company

GUARANTEED ANALYSIS:

Calcium (Ca), min.	12.50%
Calcium (Ca), max.	10.50%
Phosphorus (P), min.	6.00%
Salt (NaCl), max.	21.00%
Salt (NaCl), min.	13.00%
Magnesium (Mg), min.	3.80%
Cobalt (Co), min.	0.0017%
Copper (Cu), min.	0.035%
Iodine (I), min.	0.0055%
Iron (Fe), min.	0.80%
Manganese (Mn), min.	0.20%
Selenium (Se)	0.0026%
Zinc (Zn), min.	0.20%
Vitamin A, min.	10,000 I.U. Per Lb
Vitamin D, min.	30,000 I.U. Per Lb

INGREDIENTS:

Dicalcium phosphate, mono calcium phosphate, salt, magnesium limestone, calcium carbonate, magnesium sulfate, ferrous sulfate, cobalt carbonate, cupric oxide, calcium iodate, cupric oxide, ferrous carbonate, manganese oxide, sodium silicate, calcium carbonate, zinc carbonate, Vitamin A supplement, Vitamin D supplement, yeast culture, molasses, and other ingredients.

MANUFACTURED AND GUARANTEED BY:

V.M.S., INC.

MONTGOMERY, ALABAMA 36195

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

CAUTION

Keep out of reach of children. Harmful if swallowed. Avoid contact with skin and eyes. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating or smoking. If in eyes, wash with plenty of water for 15 minutes. If irritation persists, see a physician.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Do not store in a way accessible to children by storage of containers. Containers should be stored in a secure manner and not be reused for other purposes. Do not use for any other purpose.

DIRECTIONS FOR USE: GENERAL CLASSIFICATION

This is a label for the use of this product in a manner consistent with the following:

Adult cattle should be fed $\frac{1}{2}$ lb. of the mineral mix per 100 pounds of body weight per month. This will supply the recommended average daily intake of 70 mg. RABON[®] Oral Larvicide per hundred pounds of body weight. Animals should not be starved for minerals before initiation of the V.M.S. Mineral Mix 6 (Two-One) with RABON[®] program but O.M.F. salt from other feed after the program is started.

Do not feed other free choice sources of salt or mineral containing salt in any form. Allow one mineral feeder for each 10-15 head and place near watering and feeding areas. Put out no more than one month's supply at a time and protect from rain.

If consumption of V.M.S. Mineral Mix 6 (Two-One) with RABON[®] is above $\frac{1}{2}$ lb. per 100 lbs. of body weight per month reduce the number of feeding locations or relocate. If consumption is below $\frac{1}{2}$ lb. per 100 lbs. of body weight per month, increase the number of feeding locations. Start feeding V.M.S. Mineral Mix 6 (Two-One) with RABON[®] early in the spring before flies begin to appear and continue feeding through the summer and into the fall.

V.M.S. Mineral Mix 6 (Two-One) with RABON[®] may be fed to slaughter and to lactating dairy cows.

V.M.S. Mineral Mix 6 (Two-One) with RABON[®] prevents the development of horn flies, face flies, house flies and stable flies in the manure of treated cattle, but is not effective against existing adult flies. When starting a feeding program during the fly season it may be necessary to use other control measures to reduce the population of existing adult flies.

Supplemental control measures may be needed in and around cattle lots and buildings to control adult house flies and stable flies which can breed not only in cattle manure but in other decaying vegetative matter on the premises.

In order to achieve optimum fly control V.M.S. Mineral Mix 6 (Two-One) with RABON[®] should be used in conjunction with other good management and sanitation practices.

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CAUTION

For a feeding program, Vison this product is recommended as directed and provide 0.3 PPM of Selenium (Se).

For complete recommendations on a complete supplement program, contact V.M.S. Inc., Department of Nutrition.

MIXING DIRECTIONS FOR FINISHED FEEDS

The following table shows the correct amount of V.M.S. Mineral Mix 6 to be mixed into your complete daily ration in order to provide the recommended average daily intake of 70 mg. of Selenium. Calculate volume per hundred pounds of body weight.

Determine your cattle's average body weight and find this figure in the left column, then determine the average consumption of your complete daily ration and find this figure in the top column. Cross reference and you will find the amount of V.M.S. Mineral Mix 6 to be mixed into your ration. Mixing time should be adequate to assure uniform dispersion. Optimum performance can be assured only if V.M.S. Mineral Mix 6 is dispersed uniformly with the feedstuff at the recommended level. Common feed mixing equipment (i.e. vertical mixers, horizontal blenders, mixer/feeder trucks) may be used to prepare formulated feeds.

CONSUMPTION PER HEAD PER DAY OF FINISHED FEED (Pounds)

	LBS.	4#	5#	6#	7#	8#	9#	10#	15#	20#	25#	30#	
<u>AVERAGE</u>	400	32	25	21	18	16	14	13	9	7	5	5	<u>POUNDS</u>
<u>WEIGHT</u>	500	40	32	27	23	20	18	16	11	8	7	6	<u>OF</u>
<u>OF</u>	600	47	38	32	27	24	21	19	13	10	8	7	<u>V.M.S.</u>
<u>ANIMALS</u>	700	55	44	37	32	28	25	22	15	11	9	8	<u>MINERAL</u>
<u>(Pounds)</u>	800	63	50	42	36	32	28	25	17	13	10	9	<u>MIX-6</u>
	900	71	57	48	41	36	32	28	19	14	11	10	<u>PER</u>
	1000	79	63	53	45	40	35	32	21	16	13	11	<u>HEAD</u>
	1100	86	69	58	50	43	39	35	23	18	14	12	<u>TO BE</u>
	1200	94	75	63	54	47	42	38	25	19	15	13	<u>MIXED</u>
	1300	102	82	68	59	51	46	41	28	21	17	14	<u>PER TON</u>
	1400	110	88	73	63	55	49	44	30	22	18	15	<u>OF</u>
	1500	118	94	79	67	59	52	47	32	24	19	16	<u>FINISHED</u>
	1600	126	100	84	72	63	56	51	34	26	20	17	<u>FEED</u>
	1700	133	107	89	76	67	60	54	36	27	22	18	
	1800	141	113	94	81	71	63	57	38	29	23	19	
	1900	149	119	99	85	75	66	60	40	30	24	20	
	2000	157	125	105	90	79	70	63	42	32	25	21	



OBSERVE LABEL
DIRECTIONS

10461-7

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide
registered under EPA Reg. No.

SEP 20 1989

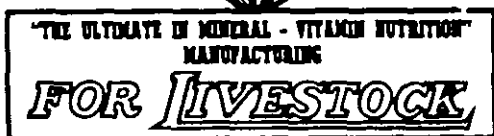
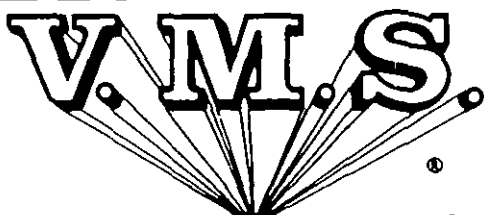
ACCEPTED
with COMMENTS
in EPA Letter Dated:

596

50 LBS

NET WEIGHT

22.7 KG



MINERAL MIX 6 WITH RABON® ORAL LARVICIDE

To prevent the development of horn flies, face flies, house flies and stable flies in the manure of treated cattle

ACTIVE INGREDIENTS:

1,2-chloro-1-(2,4, 5-trichlorophenyl)
vinyl dimethyl phosphate

INERT INGREDIENTS**

BY WEIGHT

1.00%

99.00%

TOTAL 100.00%

*Each pound contains 4.5 g RABON®

**Refers only to ingredients which are not larvicidal

EPA REG. NO. 10461-7

EPA EST. NO. 10461-AL-1

RABON® is a registered trademark of Shell Oil Company.

GUARANTEED ANALYSIS:

Calcium (Ca), max	26.40%
Calcium (Ca), min	24.40%
Phosphorus (P), min	6.00%
Salt (NaCl), max	19.00%
Salt (NaCl), min	16.00%
Magnesium (Mg), min	1.65%
Cobalt (Co), min	0.0018%
Copper (Cu), min	0.035%
Iodine (I), min	0.005%
Iron (Fe), min	0.55%
Manganese (Mn), min	0.20%
Selenium (Se)	0.0026%
Zinc (Zn), min	0.20%
Vitamin A, min	145,000 IU Per Lb
Vitamin D ₃ , min	40,000 IU Per Lb

INGREDIENTS:

Dehydrated phosphate salt, calcium carbonate, magnesium limestone, magnesium sulfate, potassium sulfate, cobalt carbonate, cupric oxide, calcium iodate, ferrous oxide, ferrous carbonate, manganese oxide, and chelated zinc oxide, vitamin A supplement, D-activated animal sterol (source of vitamin D₃), yeast culture, niacin, choline chloride, riboflavin supplement and cane molasses

MANUFACTURED AND GUARANTEED BY:

V.M.S., INC.

MONTGOMERY, ALABAMA 36195

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

CAUTION

Keep out of reach of children. Harmful if swallowed. Avoid contact with skin and eyes. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating or smoking. If in eyes, wash with plenty of water for 15 minutes. If irritation persists, see a physician.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Do not contaminate water or food by storage or disposal. Open dumping is prohibited. Dispose of in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

DIRECTIONS FOR USE: GENERAL CLASSIFICATION

Use for the ration of Federal Swine. Use this with a mineral-vitamin supplement.

Allow free choice to cattle. Cattle should consume an average of 1.2 lb. of the mineral per 100 pounds of body weight per month. This will supply the recommended average daily intake of 70 mg. RABON[®] (Ox-Lan) oxide per hundred pounds of body weight. Animals should not be started on the mineral before initiation of the V.M.S. Mineral Mix 6 with RABON[®] program but OMT[®] can safely be mixed and fed after the program has started.

Do not feed other free choice sources of salt or mineral containing salt in any form. Allow one mineral feeder for each 10-15 head, and place near watering and calving areas. Put out no more than one month's supply at a time and protect from rain.

If consumption of V.M.S. Mineral Mix 6 with RABON[®] is above 1.0 lb. per 100 lbs. of body weight per month, reduce the number of feeding locations or ration. If consumption is below 1.0 lb. per 100 lbs. of body weight per month, increase the number of feeding locations. Start feeding V.M.S. Mineral Mix 6 with RABON[®] early in the spring before flies begin to appear, and continue feeding throughout the summer and into the fall.

V.M.S. Mineral Mix 6 with RABON[®] may be fed up to slaughter and to lactating dairy cows.

V.M.S. Mineral Mix 6 with RABON[®] prevents the development of horn flies, face flies, house flies and stable flies in the manure of treated cattle, but is not effective against existing adult flies. When starting a feeding program during the fly season, it may be necessary to use other control measures to reduce the population of existing adult flies.

Supplementary control measures include fly traps and wind catches, and the use of control adult house flies and stable flies and ear flies in the pig manure but not in the dairy manure, and the use of vegetable matter or sludge in the pastures.

In order to achieve optimum results with V.M.S. Mineral Mix 6 with RABON[®], use in conjunction with other good management and sanitation practices.

CAUTION

Follow feeding directions. When this product is combined as directed with any of the V.M.S. (Selenium) (Se).

For specific recommendations on a complete supplement program, contact V.M.S., Inc., Department of Nutrition.

MIXING DIRECTIONS FOR FINISHED FEEDS

The following table shows the correct amount of V.M.S. Mineral Mix 6 with RABON[®] to be mixed into a complete daily ration in order to supply the recommended average daily intake of 70 mg. of RABON[®]. (Ox-Lan) oxide per hundred pounds of body weight.

Determine your cattle's average body weight and mix a figure in the table above the daily intake average consumption of your complete daily ration and feed this figure to the pigs. Cross reference and you will find amount of V.M.S. Mineral Mix 6 with RABON[®] to be mixed into your ration. Mixing time should be adequate to assure uniform dispersion. Optimum performance can be assured by using V.M.S. Mineral Mix 6 with RABON[®] as dispersed on form 2 at 2 1/2 percent of the ration mix to be fed. Common feed mixing equipment, i.e., water trucks, etc., will provide a suitable method for mixing and may be used to prepare for molasses feeds.

CONSUMPTION PER HEAD PER DAY OF FINISHED FEED (Pounds)

	LBS.	4#	5#	6#	7#	8#	9#	10#	15#	20#	25#	30#	
<u>AVERAGE</u>	400	32	25	21	18	16	14	13	9	7	5	5	<u>POUNDS</u>
<u>WEIGHT</u>	500	40	32	27	23	20	18	16	11	8	7	6	<u>OF</u>
<u>OF</u>	600	47	38	32	27	24	21	19	13	10	8	7	<u>V.M.S.</u>
<u>ANIMALS</u>	700	55	44	37	32	28	25	22	15	11		8	<u>MINERAL</u>
<u>(Pounds)</u>	800	63	50	42	36	32	28	25	17	13	10	9	<u>MIX-5</u>
	900	71	57	47	41	36	32	29	19	15	12	10	<u>WITH</u>
	1000	79	63	53	45	40	35	32	21	16	13	11	<u>RABON*</u>
	1100	86	69	58	50	43	39	35	23	18	14	12	<u>TO BE</u>
	1200	94	75	63	54	47	42	38	25	19	15	13	<u>MIXED</u>
	1300	102	82	68	59	51	46	41	28	21	17	14	<u>PER TON</u>
	1400	110	88	73	63	55	49	44	30	22	18	15	<u>OF</u>
	1500	118	94	79	67	59	53	47	32	24	19	16	<u>FINISHED</u>
	1600	125	100	84	72	63	56	50	34	25	20	17	<u>FEED</u>
	1700	133	107	89	76	67	60	54	36	27	22	18	
	1800	141	113	94	81	71	63	57	38	29	23	19	
	1900	149	119	99	85	75	66	60	40	30	24	20	
	2000	157	125	105	90	79	70	63	42	32	25	21	

(95-VMS)

TAKE TIME



OBSERVE LABEL
DIRECTIONS

12/87