

Regulatory Bulletin 215

KENTUCKY  
ECONOMIC POISONS  
REPORT, 1973



University of Kentucky  
College of Agriculture  
Agricultural Experiment Station  
Division of Regulatory Services  
Lexington

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## INTRODUCTION

During the period January 1 through December 31, 1973, 144 pesticide samples were analyzed.

## LABELING REQUIREMENTS

Chemicals that require registration under the Kentucky Economic Poisons Law must bear a label stating directions for use, which, if complied with, are considered adequate for the protection of the public. With few exceptions, the label must contain a warning or caution statement, designed to prevent injury to man and other vertebrate animals, vegetation, or other useful living things. The front or display side of the label should also bear the statement "Keep Out Of Reach Of Children". If the product is shipped in interstate commerce, the label should bear the EPA registration number.

The label of the product must also contain an active ingredient statement which shows either the name and percentage of each active ingredient together with the total percentage of the inert ingredients, or the names of each active ingredient in the descending order of their percentages together with the name of each and the total percentage of the inert ingredients. The ingredient statement of any product may be of either form, except in the case of compounds which are highly toxic to man. The ingredient statement for products containing highly toxic compounds must list the name and percentage of each active ingredient. Highly toxic materials may also be required to be colored or discolored for the protection of the public health.

The label provides the public with information on the uses of, and the precautions to be taken in using all economic poisons sold in Kentucky. The name and address of the manufacturer or distributor, the net weight or measure of the contents of any package or bottle, and the brand or trademark under which the product is sold must appear on the label.

## FIELD INSPECTION

In order to adequately enforce the provision of the act, field inspectors are authorized to collect samples of economic poisons and devices and to enter any car, warehouse, store, or other place where economic poisons or devices may be stored for the purpose of inspection or sampling. They are also authorized to issue and enforce a written or printed stop sale or removal order on a lot of economic poison when the material being offered for sale is in violation of any of the provisions of the Kentucky Economic Poisons Law. They are authorized to hold this material at a designated place.

## PESTICIDE-FERTILIZER MIXTURES

An important group of specialty products are the products in which an insecticide, herbicide, or other economic poison is incorporated into a fertilizer. These products must be registered under the economic poisons law and the fertilizer law and the labeling must meet the requirements of both laws.

## EXPLANATION OF TABLES

The following tables are compiled by active ingredient. Manufacturers are listed alphabetically above their respective products. The examinations reported are official samples of pesticide products offered for sale in Kentucky.

Of the samples reported, 13 samples were found to be deficient in one or more of the active ingredients guaranteed. Seven products were not registered when the sample was taken.

The symbols in the right hand column of each table have the following meaning:

- P (Passed) denotes the amount of active ingredient found was not significantly at variance from the amount guaranteed.
- D (Deficient) denotes the amount of active ingredient found was significantly below the amount guaranteed.
- X (Not registered) denotes the product was not registered in Kentucky at the time the sample was taken.
- M (Mislabelled) denotes the product did not meet the label requirements in all respects.

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN

"Ag" Supply Company  
Industrial Drive  
Hopkinsville, KY 42240

Allied Mills, Inc.  
P.O. Box 459  
Libertyville, IL 60048

Babson Bros., Co.  
2100 South York Road  
Oak Brook, IL 60521

Bacon Products Co.  
1605 Shepherd Rd.  
Chattanooga, TN 37411

BASF Wyandotte Corp.  
1609 Biddle Avenue  
Wyandotte, MI 48192

Central Soya Feed Division  
113 W. Berry St.  
Fort Wayne, IN 46802

Chemagro Corporation  
Box 4913  
Kansas City, MO 64120

Chevron Chemical Company  
940 Hensley Street  
Richmond, CA 94804

Ciba-Geigy Corp.  
Box 11422  
Greensboro, NC 27409

Diversey Chemical Company  
1855 So. Mt. Prospect  
Des Plaines, IL 60018

The Dow Chemical Company  
2030 Dow Center  
Midland, MI 48640

Dragon Chemical Co.  
7033 Walrond Drive  
Roanoke, VA 24019

E. I. DuPont De Nemours & Co.  
7056 DuPont Building  
Wilmington, DE 19898

E-Z-Flo Chemical Company  
701 Kaderly Drive  
Columbus, OH 43228

FRM Chemical Inc.  
520 S. Clay - Box 9903  
St. Louis, MO 63122

Good-Life Chemical, Inc.  
Good-Life Drive  
Effingham, IL 62401

## COMPANIES REPRESENTED BY SAMPLES REPORTED IN THIS BULLETIN (Cont'd.)

W. R. Grace & Company  
Agri. Chemical Group  
100 N. Main St.  
Memphis, TN 38103

W. T. Grant Company  
1515 Broadway  
New York, NY 10036

Heritage House Products  
300 Lake Road  
Medina, OH 44256

Happy Jack Inc.  
Box 475  
Snow Hill, NC 28580

Eck Jones  
Route #1  
Central City, KY 42330

Niagara Chemical Division  
FMC Corporation  
100 Niagara St.  
Middleport, NY 14105

Pfizer, Inc.  
235 East 42nd Street  
New York, NY 10017

Ralston Purina Company  
Checkerboard Square  
St. Louis, MO 63188

Rigo Chemical Company  
638 Benton Avenue  
Nashville, TN 37202

Shell Chemical Company  
2401 Crow Canyon Road  
San Ramon, CA 94583

Sherwin Williams Chemicals  
101 Prospect Avenue NW  
Cleveland, OH 44101

Smith-Douglas Div. Borden Inc.  
Box 419  
Norfolk, VA 23501

Stauffer Chemical Company  
P.O. Box 10  
Dayton, NJ 08810

Thompson-Hayward Chemical Co.  
5200 Speaker Road  
Kansas City, KS 66106

Tobacco States Chemical Company  
P.O. Box 479  
Lexington, KY\* 40501

Tuco Division of UpJohn Company  
7171 Portage Road  
Kalamazoo, MI 49001

Union Carbide Corporation  
270 Park Avenue  
New York, NY 10017

Universal Cooperatives, Inc.  
111 Glamorgan Street  
Alliance, OH 44601

Woolfold Chemical Works, Ltd.  
East Main Street  
Fort Valley, GA 31030

Yale Chemical Company  
Box 715  
Nashville, TN 37202

## ANALYSES OF PRODUCTS CONTAINING CARBARYL

Registrant Product	Carbaryl		Remarks
	Guarantee %	Found %	
"AG" SUPPLY COMPANY			
Sevin 5 Dust	5.00	5.10	P
Do	5.00	5.10	P
CHEVRON CHEMICAL COMPANY			
Sevin 5 Dust	5.00	5.60	P
DRAGON CHEMICAL CORPORATION			
Dragon 1 3/4% Sevin Dust	1.75	1.74	P
W. R. GRACE & COMPANY			
Naco 5% Sevin Dust	5.00	4.95	P
Do	5.00	5.20	P
W. T. GRANT COMPANY			
Grants 50% Sevin Spray	50.00	55.50	P
HAPPY JACK, INC.			
Happy Jack Flea-Tick Powder	5.00	6.04	X
ECK JONES			
Jones Bug Dust	5.00	5.09	P
NIAGARA CHEMICAL DIVISION			
Niagara Sevin 50	50.00	49.03	P
RIGO CHEMICAL COMPANY			
Kill-Ko 5% Sevin Vegetable Dust	5.00	5.08	P
Kill-Ko 80% Sevin Wettable	80.00	<u>68.00</u>	<u>D</u>
SHERWIN-WILLIAMS CHEMICALS			
Acme Sevin 50W	50.00	51.20	P
TOBACCO STATES CHEMICAL COMPANY			
5% Sevin Vegetable Dust	5.00	5.24	P
Do	5.00	5.40	P
Flea Beetle Dust	5.00	5.50	P
Do	5.00	5.30	P
UNION CARBIDE CORPORATION			
Sevin 50W	50.00	51.90	P
Do	50.00	49.60	P
Sevin Sprayable	80.00	84.00	P
UNIVERSAL COOPERATIVE			
Unico Sevin Dust	3.00	3.40	P
Do	3.00	3.40	P
WOOLFOLK CHEMICAL WORKS, LTD.			
Security Sevin Garden Dust	5.00	5.10	P

## ANALYSES OF PRODUCTS CONTAINING CIODRIN

Registrant Product	Ciodrin		Remarks
	Guarantee %	Found %	
ALLIED MILLS INC. Wayne Daisy & Livestock Spray Con.	14.40	15.10	P
RALSTON PURINA COMPANY Purina Lice & Fly Killer	3.00	3.16	P
SHELL CHEMICAL COMPANY 3% Ciodrin Insecticide	3.00	2.84	P
Do	3.00	3.03	P
TOBACCO STATES CHEMICAL CO., INC. Ciodrin	12.37	12.91	P
UNIVERSAL COOPERATIVES INC. Unico 1% Ciodrin Bulk Rubber Sol.	1.00	1.14	P
Unico Stock Spray Con.	12.60	14.20	P

## ANALYSES OF PRODUCTS CONTAINING DDVP

Registrant Product	DDVP		Remarks
	Guarantee %	Found %	
BACON PRODUCTS CO., INC. Flifo Fly Bait	0.46	0.37	X
CENTRAL SOYA FEED DIVISION Sugar Fly Bait	0.46	<u>0.00</u>	<u>D</u>
RIGO CHEMICAL COMPANY Kill-Ko Fly Bait	0.46	0.46	P
Do	0.46	<u>0.31</u>	<u>D</u>

## ANALYSES OF PRODUCTS CONTAINING DIAZINON

Registrant Product	Diazinon		Remarks
	Guarantee %	Found %	
CIBA-GEIGY CORP. Diazinon 14 G	14.30	16.90	P
Do	14.30	16.80	P



## ANALYSES OF PRODUCTS CONTAINING DIAZINON (Cont'd.)

Registrant Product	Diazinon		Remarks
	Guarantee %	Found %	
CIBA-GEIGY CORP. (Cont'd.)			
Diazinon 14 G	14.30	16.50	P
Do	14.30	16.50	P
Diazinon AG 500	48.00	49.65	P
Do	48.00	46.00	P
Do	48.00	48.00	P
Do	48.00	49.00	P
Do	48.00	48.00	P

## ANALYSES OF PRODUCTS CONTAINING DIPHENAMID

Registrant Product	Diphenamid		Remarks
	Guarantee %	Found %	
E-Z-FLO CHEMICAL COMPANY			
Enide 50W	50.00	53.10	X
TUCO DIVISION, THE UPJOHN COMPANY			
Enide 50W	50.00	52.22	P
Do	50.00	52.80	P
Do	50.00	53.30	P
Do	50.00	54.30	P
Do	50.00	54.20	P
Do	50.00	52.00	P

## ANALYSES OF PRODUCTS CONTAINING ENDOSULFAN

Registrant Product	Endosulfan		Remarks
	Guarantee %	Found %	
"AG" SUPPLY COMPANY			
Thiodan Tobacco Spray	24.00	24.90	P
TOBACCO STATES CHEMICAL CO., INC.			
Thiodan 2	24.00	23.49	P
UNIVERSAL COOPERATIVES, INC.			
Unico Thiodan	22.80	22.62	P

## ANALYSES OF PRODUCTS CONTAINING GUTHION

Registrant Product	Guthion		Remarks
	Guarantee %	Found %	
CHEMAGRO CORPORATION			
Guthion 2L	22.20	19.60	<u>XD</u>
Guthion 50%	50.00	49.60	P
Do	50.00	52.60	P
HERITAGE HOUSE PRODUCTS			
Fruit, Nut & Vegetable Spray	12.40	12.20	P

## ANALYSES OF PRODUCTS CONTAINING MALATHION

Registrant Product	Malathion		Remarks
	Guarantee %	Found %	
"AG" SUPPLY COMPANY			
Malathion Emulsive	50.00	50.00	P
CHEVRON CHEMICAL COMPANY			
Ortho Malathion 5 Dust	5.00	4.40	P
Do	5.00	4.80	P
Malathion 5 Emulsive XB	55.00	55.86	P
DRAGON CHEMICAL CORPORATION			
5% Malathion Dust	5.00	5.80	X
E-Z-FLO CHEMICAL COMPANY			
E-Z-Flo Malathion 5E	57.00	61.15	P
W. R. GRACE & COMPANY			
Naco Malathion 5EC	56.50	57.50	P
Do	56.50	<u>53.81</u>	<u>D</u>
NIAGARA CHEMICAL DIVISION, FMC CORP.			
Malathion 25 Wetttable	25.00	25.40	P
PFIZER, INC., AGRICULTURAL DIV.			
Pfizer Malathion Compound	57.00	60.89	P
RALSTON PURINA COMPANY			
Purina Hog & Cattle Dusting Powder	4.00	4.00	P
Purina Malathion Spray	57.00	57.98	P
RIGO CHEMICAL COMPANY			
Kill-Ko 5% Cythion Dust	5.00	6.30	P
Kill-Ko 50% Cythion	50.00	56.00	P
Do	50.00	50.00	P
Do	50.00	50.50	P

## ANALYSES OF PRODUCTS CONTAINING MALATHION (Cont'd.)

Registrant Product	Malathion		Remarks
	Guarantee %	Found %	
SMITH DOUGLASS, DIV. OF BORDEN CHEMICAL Cythion	56.22	55.09	P
STAUFFER CHEMICAL COMPANY Cythion 5E	56.38	56.77	P
Do	56.38	57.28	P
TOBACCO STATES CHEMICAL CO., INC. 5% Malathion Ready Mixed Dust	5.00	5.00	P
Do	5.00	4.70	P
50% Malathion	50.00	53.90	P
Do	50.00	48.90	P
Do	50.00	50.50	P
Do	50.00	48.90	P
UNIVERSAL COOPERATIVES, INC. Unico 5% Malathion Dust	5.00	4.80	P
Unico Malathion W. P.	25.00	26.20	P
Do	25.00	22.90	D
Unico Malathion 51 Spray	51.30	50.60	P
Unico Malathion 5 E. C.	57.00	59.91	P
Do	57.00	57.20	P
WOOLFOLK CHEMICAL WORKS, LTD. Security 25% Malathion W. P.	25.00	24.80	X
Security Malathion 5-E	56.10	58.60	P

## ANALYSES OF PRODUCTS CONTAINING METHYL PARATHION

Registrant Product	Methyl Parathion		Remarks
	Guarantee %	Found %	
STAUFFER CHEMICAL COMPANY Methyl Parathion 4-E	45.42	44.23	P
Do	45.42	43.71	D

## ANALYSES OF PRODUCTS CONTAINING METHOXYCHLOR

Registrant Product	Methoxychlor		Remarks
	Guarantee %	Found %	
E. I. DU PONT DE NEMOURS & COMPANY, INC.			
DuPont Marlate 50	50.00	51.50	P
Do	50.00	51.50	P
Do	50.00	51.40	P
RIGO CHEMICAL COMPANY			
Kill-Ko Methoxychlor Dairy Kattle Dust	10.00	11.20	X
TOBACCO STATES CHEMICAL COMPANY			
7 1/2% Methoxy Garden Dust	7.50	7.80	P
24% Methoxychlor E. C.	24.00	23.90	P
Do	24.00	25.30	P
Do	24.00	30.40	P
50% Methoxychlor W. P.	50.00	52.10	P
Do	50.00	48.00	D
UNIVERSAL COOPERATIVES, INC.			
Unico Methoxychlor E. C.	23.80	25.50	P
Unico 50% Methoxychlor W. P.	50.00	52.00	P

## ANALYSES OF PRODUCTS CONTAINING PARATHION

Registrant Product	Parathion		Remarks
	Guarantee %	Found %	
WOOLFOLK CHEMICAL WORKS, LTD.			
Security 15% Parathion W. P.	15.00	14.77	P

## ANALYSES OF PRODUCTS CONTAINING RONNEL

Registrant Product	Ronnel		Remarks
	Guarantee %	Found %	
"AG" SUPPLY COMPANY			
Hog Lice Granules	5.00	4.56	P
THE DOW CHEMICAL COMPANY			
Korlan 24E	24.00	23.74	P

## ANALYSES OF PRODUCTS CONTAINING RONNEL (Cont'd.)

Registrant Product	Ronnel		Remarks
	Guarantee %	Found %	
GOOD-LIFE CHEMICALS, INC. Hog Lice Killer	5.00	5.13	P
TOBACCO STATES CHEMICAL COMPANY 5% Ronnel Granular	5.00	<u>3.77</u>	<u>D</u>
Do	5.00	<u>3.65</u>	<u>D</u>
UNIVERSAL COOPERATIVES, INC. Lice-X	5.00	5.15	P

## ANALYSES OF PRODUCTS CONTAINING SODIUM HYPOCHLORITE

Registrant Product	Sodium Hypochlorite		Remarks
	Guarantee %	Found %	
BABSON BROS. COMPANY Surge Zinicin Chlorinated Sanitizer	10.50	<u>9.50</u>	<u>D</u>
BASF WYANDOTTE CORP. Sodium Hypochlorite	5.25	<u>4.40</u>	<u>D</u>
DIVERSEY CHEMICALS DIV., DIVERSEY CORP. DIBAC	8.50	<u>7.20</u>	<u>D</u>
FRM-CHEMICAL, INC. FRM-Chlor	8.40	8.90	P
YALE CHEMICAL COMPANY Yale Hypochlorite	5.00	4.70	P

## ANALYSES OF PRODUCTS CONTAINING SUPRACIDE

Registrant Product	Supracide		Remarks
	Guarantee %	Found %	
CIBA-GEIGY CORP. Supracide 2E	24.40	26.30	P
Do	24.40	25.90	P
Do	24.40	25.40	P
Do	24.40	26.70	P
Do	24.40	25.30	P
Do	24.40	25.80	P
Do	24.40	25.30	P

## ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES

Registrant Product	Guarantee %	Found %	Remarks
<b>"AG" SUPPLY COMPANY</b>			
Burley Leaf Tobacco Spray			
Endosulfan	12.20	12.01	P
Malathion	12.20	12.86	P
<b>CIBA-GEIGY CORPORATION</b>			
Alfa-Tox			
Methoxychlor	20.00	22.30	P
Diazinon	10.00	10.50	P
Do			
Do	20.00	19.60	P
Do	10.00	11.20	P
Do			
Do	20.00	19.90	P
Do	10.00	10.80	P
Do			
Do	20.00	20.20	P
Do	10.00	10.70	P
Do			
Do	20.00	20.10	P
Do	10.00	11.50	P
<b>DRAGON CHEMICAL CORPORATION</b>			
Blue Dragon Garden Dust			
Carbaryl	2.00	2.00	P
Sulfur	10.00	- --	
<b>W. R. GRACE &amp; COMPANY</b>			
Dual Tobacco Spray			
Endosulfan	12.30	12.03	P
Malathion	12.30	12.59	P
<b>NIAGARA CHEMICAL DIVISION</b>			
Golden Leaf Tobacco Spray Special			
Endosulfan	11.60	11.90	P
Malathion	11.60	12.10	P
Do			
Do	11.60	12.60	P
Do	11.60	11.80	P
Golden Leaf Tobacco Spray			
Endosulfan	12.20	12.00	P
Malathion	12.20	13.00	P
<b>PFIZER, INC. AGRICULTURAL DIV.</b>			
Pfizer Cattle Dust			
Methoxychlor	5.00	4.88	P
Malathion	4.00	4.36	P
<b>RALSTON PURINA COMPANY</b>			
Purina Poultry Dusting Powder			
Carbaryl	5.00	4.86	P
Sulfur	10.00	- --	

## ANALYSES OF PRODUCTS CONTAINING MIXTURES OF PESTICIDES (Cont'd.)

Registrant Product	Guarantee %	Found %	Remarks
SMITH-DOUGLASS FARM CHEMICALS			
Thiodan-Malathion 1-1 E. C.			
Endosulfan	12.42	12.51	P
Malathion	12.42	13.57	P
THOMPSON-HAYWARD CHEMICAL COMPANY			
Clean Sweep Tobacco Spray			
Endosulfan	12.20	11.63	P
Malathion	12.20	12.66	P
Do			
Do	12.20	11.75	P
Do	12.20	12.58	P
TOBACCO STATES CHEMICAL COMPANY			
Tobacco States To-Bacco Spray			
Endosulfan	12.20	12.34	P
Malathion	12.20	13.10	P
Six X Tobacco Spray			
Endosulfan	14.88	15.11	P
Malathion	22.32	23.62	P
Piperonyl Butoxide	.75	-- --	
Pyrethrins	.07	-- --	
Do			
Do	14.88	16.18	P
Do	22.32	23.90	P
Do	.75	-- --	
Do	.07	-- --	
2-M Alfalfa Spray			
Malathion	22.73	24.90	P
Methoxychlor	22.73	22.50	P
WOOLFOLK CHEMICAL WORKS, LTD.			
5% Sevin - 1% Parathion Tobacco Dust			
Sevin	5.00	5.11	P
Parathion	1.00	-- --	P

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