

**SECTION 23-THE POISONOUS SUBSTANCES IN  
FOOD REGULATIONS  
*Regulations by the Minister***

***Statutory  
Instrument  
215 of  
1973***

1. These Regulations may be cited as the Poisonous Substances in Food Regulations.

Title

2. In these Regulations unless the context otherwise requires-

Interpretation

"Act" means the Food and Drugs Act.

3. Except as provided in these Regulations, a food named in Part I or Part II of the Schedule hereto which contains in or upon it-

Limits for poisonous substances in food

(a) any or all of the poisonous or harmful substances listed in amounts not exceeding the quantities stated therein in parts per million (p.p.m.) for that food; and

(b) no other poisonous or harmful substance;

is hereby exempted from the provision of paragraph (a) of section *three* of the Act.

## **SCHEDULE**

### Part I

Foods	Substance in parts per million					
	Arsenic	Lead	Copper	Zinc	Iron	Tin
Apple juice	-	0.3	5.0	5.0	10	150
Apricot nectar	0.2	0.3	-	5.0	15	250
Grapefruit juice	-	0.3	5.0	5.0	15	250
Grape juice	-	0.3	5.0	5.0	15	-
Lemon juice	-	1.0	5.0	5.0	15	250
Orange juice	-	0.3	5.0	5.0	15	250
Peach nectar	0.2	0.3	5.0	5.0	15	250
Pear nectar	-	0.3	5.0	5.0	15	250
Tomato juice	-	0.3	5.0	5.0	15	-
Dextrose anhydrous	1.0	2.0	2.0	-	-	-
Dextrose monohydrate	1.0	2.0	2.0	-	-	-
Glucose syrup	1.0	2.0	5.0	-	-	-
Dried glucose syrup	1.0	2.0	5.0	-	-	-
Soft sugars	1.0	2.0	10.0	-	-	-
White sugar	1.0	2.0	2.0	-	-	-
Powdered sugar	1.0	2.0	2.0	-	-	-
Lactose	1.0	2.0	2.0	-	-	-
Cocoa butter	0.5	0.5	0.4	-	20	-
Refined oils and fats	0.1	0.1	0.1	-	1.5	-
Virgin oils	0.1	0.1	0.4	-	5.0	-

Canned foods and vegetables	-	-	-	-	-	250
Citric acid	1	10	50	50	-	-
Tartaric acid	1	10	50	50	-	-
Cream of tartar	2	20	50	50	-	-
Sodium bicarbonate	2	5	50	50	-	-
Baking powder	2	10	50	50	-	-
Phosphoric acid	4	5	30	30	-	-
Calcium phosphate	4	5	30	30	-	-
Sodium potassium and ammonium phosphates	4	5	30	30	-	-
Sodium and potassium nitrates	1	10	50	50	-	-
Sodium nitrite	1	20	50	50	-	-
Aluminium compounds	3	10	50	50	-	-
Marine and fresh water animal products	5	10	100	100	-	-
Liver	1	2	150	100	-	-
Fresh fruits	2	7	50	50	-	-
Fresh vegetables	1	2	50	50	-	-
Gelatin	2	7	30	100	-	-
Gelling agents, except gelatin	2	20	50	200	-	-
Dried herbs and species	5	10	50	50	-	-
Beverages as consumed and bottled water	0.1	0.2	2	5	-	-
Tea	1	10	150	50	-	-
Edible bone meal	1	10	20	150	-	-
Fish protein	3.5	0.5	-	-	-	-
Other foods not specified	-	0.5	-	-	-	-

Part II

Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Aldicarb	2-methyl-2-(methylthio) propionaldehyde O-(methyl carbamoyl) oxime		0.1	Cottonseed
Aldrin	1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-exo-1,4-endo-5,8-dimethanonaphthalene		0.2	Beets, carrots, potatoes, turn
Aluminium phosphide	Aluminium phosphide	Phostoxin	0.1 0.01	Maize grain, m spinach, sweet sorghum grain Raw cereals Flour and other products, bread cereals, dried vegetables, sp
Anilazine	2,4-dichloro-6-(2-chloroanilino)-1,3,5-triazine	Dyrene	20 10	Strawberries Blueberries, ce cranberries, c garlic, gooseb huckleberries, onions, shallo
Atrazine	2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine		5 1.0 0.25	Blackberries, cantaloupes, dewberries, h melons, logan muskberries, pumpkins, ras watermelons Potatoes Maize grain, so grain, sugar c

			0.02	wheat grain Eggs, milk, me and meat by-p of cattle, goats horses, poultry sheep
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\*Also includes practical residue limits occurring in foods not necessarily due to application to protect food against pest attack.

Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Azinphosmethyl	S-[3,4-dihydro-4-oxobenzo( <i>d</i> )-(1,2,3)-triazin-3-ylmethyl]dimethyl phosphorothiothionate	Guthion	4.0 1.0 0.5	Apricots, grape Other fruits Vegetables
Benomyl	Methyl-N-[1-(butylcarbamoyl)-2-benzimi-dazole]carbamate	Benlate	15  2.0 1.0	Apricots, cherri nectarines, pe plums (includi prunes) Snap beans (succulent) Cucumbers, m summer squa winter squash
Binapacryl	2-(1-methyl- <i>n</i> -propyl)4,6-dinitrophenyl 2-methylcrotonate	Morocide	0.2 1.0 0.5 0.3 0.2	Banana pulp, p sugarbeet roo Peaches, cherri Apples, pears, Plums Nectarines
Bonaid	Ethyl 4-hydroxy-6,7-diisobutoxy-3-quinoline carboxylate		0.4	Poultry meat a by-products, h and liver of po poultry skin a underlying fat
Bromophos	4-bromo-2,5-dichlorophenyl dimethyl phosphorothionate		0.1 1.5	Muscle of poul Apples
Calcium cyanide	Calcium cyanide		25	Barley, maize, oats, sorghum
Captafol	N-(1,1,2,2-tetrachloroethylthio)-3a,4,7,7a-tetrahydrophthalimide	Diflotan	15 10 2.0 5 2.0 1.0 0.5 0.2	Peaches Cherries (sour) Cherries (sweet) Tomatoes Melons (whole) Cucumbers (w Apricots Plums
Captan	N-(trichloro-methylthio)-3a,4,7,7a-tetrahydrophthalimide		40 30 20 15  10	Apples, cherrie Pears Apricots Citrus fruits, pe rhubarb, toma Strawberries, raspberries, c cucumbers, g lettuce, marro peppers
Carbaryl	1-naphthyl methylcarbamate	Sevin	5 10	Raisins Raspberries, b boysenberries nectarines, as okra, leafy ve (except brass

			7	(whole), olives sunflower seeds avacadoes Citrus fruits, figs guavas, mangoes mulberries, strawberries blueberries, raspberries
			5	Apples, bananas grapes, beans (including pods) brassica, tomatoes peppers, eggplants poultry (skin)
			0.5	Poultry (total) (in portions)
			3.0	Cucurbits (including melons)
			2.5	Rice
			1.0	Cottonseed (with sweetcorn (kernels) nuts, maize, rice shelled) olives meat of cattle sheep, sorghum
			0.5	Onions
			0.2	Potatoes

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Carbofuran	2,3-dihydro-2,2,-dimethyl benzofuran-7-yl methylcarbamate	Furadan	0.5** 0.2** 0.1**	Turnips Rice Maize grain, sorghum
Carbophenothion	S-(4-chlorophenylthiomethyl) diethyl phosphorothiothionate	Trithion Garrathion	2.0	Grapefruit, lemons, limes, oranges sorghum grain tangelos, tangerines
			0.8	Apples, apricots snap (succulent) beans, lime (succulent form), beetroot cantaloupes, watermelons crabapples, cucumbers eggplants, figs nectarines, olives onions (dry bulb) onions (green) pears, peas (succulent form), pepper pimentos, plums prunes quince soybeans (succulent form), spinach strawberries, squash, tomatoes watermelons
			0.2	Maize (kernels) with husk removed
			0.1	Fat of cattle, goats, hogs and sheep
Chinomethionat	6-methyl-2-oxo-1,3-dithiol-4,5-b)-quinoxaline	Morestan	6.0 4.0 3.0 1.5	Strawberries Apricots, peaches Cherries Apples, honeydew melons, muskmelons (cantaloupes) summer squash

			1.0	Plums (fresh p
			0.75	Cucumbers, wa
				melons, winte
Chlorbenside	4-chlorophenyl 4-chlorophenyl sulphide		3.0	Apples, apricot
				crabapples, eg
				grapes, necta
				peaches, plur
				strawberries,
Chlordane	1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methyleneindane		0.3	Potatoes, swee
				rutabagas, tur
				parsnips, sug
				radishes
			0.2	Asparagus, bro
				Brussels spro
				cabbage, cele
				cauliflower, m
				greens, spina
			0.2	Swiss chard, le
			0.02	Beans, peas, e
				tomatoes, col
				wheat, rye, oa
				(polished), ma
				popcorn
			0.05	Sorghum
			0.1	Cantaloupes, c
				pumpkins, sq
				watermelons
			0.1	Almonds, bana
				guavas, filber
				mangoes, oliv
				passion fruit,
				pecans
			0.1	Pomegranates
				pineapples,
				strawberries,
			0.02	Citrus, pome a
				fruits
			0.5	Crude soyabea
				linseed oils
			0.1	Crude cottonse
			0.02	Edible cottonse

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\*\* Including its metabolite 2,3-dihydro-2,2-dimethyl-3-hydroxy-7-benzofuranyl N-methylcarbamate.

Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Chlordane- <i>continued</i>	1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methyleneindane- <i>continued</i>		0.02	Edible soyabea
			0.05	Milk and milk p (fat basis)
			0.05	Fat of meat and
			0.02	Eggs (shell-free)
Chlorfenson	4-chlorophenyl 4-chlorobenzenesulphonate	ovex Ovotran	5.0	Citrus fruits
			3.0	Apples, peach
				plums, prunes
Chlorfenvinphos	2-chloro-1-(2,4-dichloro-phenyl) vinyl diethyl phosphate	Birlane	0.4	Carrots, celery
			0.2	meat (fat basis)
			0.2	Milk and milk p
			0.1	cauliflower, ra
				horseradish, t
			0.05	Brussels sprou
				broccoli, swee
				potatoes, swe
				onions, leeks,
				mushrooms, p

Clopidol (Coyden 25)	3,5-dichloro-2,6-dimethyl-4-pyridinol		25	(shelled), maize
			10	grain, cottons (raw and polished)
Chlorobenzilate	Ethyl 4,4'-dichlorodiphenylglycollate or ethyl 4,4'-dichlorobenzilate		5.0	Uncooked liver kidney of poultry
			1.0	Uncooked tissue of poultry
			0.2	Apples, pears (fruit)
			1.0	Citrus fruit (whole)
Chlorphenamidine	N N-dimethyl-N'-(2-methyl-4-chlorophenyl)-formamidine		5.0	almonds, walnuts (without shells)
			4.0	Melons, cantaloupe
			3.0	Pears
Chlorphenamidine hydrochloride	N N-dimethyl-N'-(2-methyl-4-chlorophenyl)-formamidine hydrochloride		5.0	Peaches
			4.0	Apples
			3.0	Pears
			4.0	Peaches, plums
			3.0	Apples, Brussels sprouts, cauliflower
			2.0	Broccoli
			0.5	Cabbages
Chlorpropham	Isopropyl N-(3-chlorophenyl) carbamate	Chloro-IPC	50	Potatoes
Chloropropylate	Isopropyl 4,4'-dichlorobenzilate	CIPC	3.0	Apples, pears, fruit (whole)
Chlorthal methyl	Dimethyl ester of 2,3,5,6-tetrachloroterephthalic acid	Daethal	1.0	Tomatoes, cantaloupe
			5	Mustard greens, turnip greens
			2.0	Beans, black-eyed collards, kale, peppers, pimientos, potatoes, soybeans, strawberries, potatoes, turnips
			1.0	Broccoli, Brussels sprouts, cabbages, cantaloupes, honeydew melons, onions, summer tomatoes, watermelons, winter melons
Coumaphos	3-chloro-4-methyl-7-coumarinyl diethyl phosphorothionate	Co-Ral	0.05	Maize grain, potatoes, sweetcorn (kernel), cob with husk
			0.5	Eggs (shell-free), Meat (including offal) on fat basis
Crufomate	4-tertiary butyl-2-chlorophenyl methyl-N-methylphosphoroamidate		0.05	Whole milk
			1.0	Meat (fat basis)

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
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Dalapon-Na	Sodium 2,2 dichloropropionate	Dowpon Radapon	35	Peaches, plum
			30	Asparagus
			15	Peas
			10	Maize grain, dr corn (kernels
DDT	1,1,1-trichloro-2,2-di-(4-chlorophenyl)ethane	Arkotine		potatoes, cran citrus fruits
			5	Bananas, grap sugarbeets (r tops) tangerin corn (includin corn kernels p with husk rem
			3.0	Apples, grapes pineapples
			2.0	Coffee
			1.0	Apricots
			7	Apples, pears, apricots, sma (except straw vegetables (e meat or poultr basis)
			1.0	Maize, millets, wheat grain, sunflower see nuts (shelled) strawberries, vegetables
			3.5	Cherries, plum and tropical fr
			0.5	Whole milk
			1.25	Milk products (
Dehydroacetic acid (sodium salt)	3-acetyl-6-methyl-2,4-pyran-dione, sodium salt		0.5	Eggs (shell-fre
			65	Strawberries
Demeton	A mixture of diethyl 2-(ethylthio)ethyl phosphorothionate and diethyl-2-(ethylthio)ethyl phosphorothiolate		10	Bananas (edibl
			1.25	Grapes, hops
Diazinon	Diethyl 2-isopropyl-6-methyl-4-Pyrimidinyl phosphorhionate	Basudin		Almonds, apple apricots, barle broccoli, Brus sprouts, cabb cauliflower, ce filberts, grape lemon, lettuce muskmelons, oat grain, oran peaches, pea pecans, pepp potatoes, stra tomatoes, wa wheat grain
			0.5	Sugarbeets
			0.2	Sorghum grain
			0.7	Peaches, citrus cherries
			0.5	Other fruits
			0.7	Leafy vegetabl
			0.5	Other vegetabl
			0.1	Wheat, barley, (polished)
0.5	Almonds, waln filberts, pecan peanuts (shel			

			0.5	Cottonseed, sa seed, sunflow seed
			0.7	Sweet corn (ke cobs with hus removed)
			2.0	Olives and oliv
			0.7	Fat of meat of sheep and ho

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Dibromo-chloropropane	1,2,dibromo-3-chloropropane	Fumazone Nemagon Fumagon	130	Endive, lettuce
			125	Bananas (in pu
			75	Beans, carrots, figs, okra, par radishes, turn
			50	Broccoli, Bruss sprouts, cabb cantaloupes, eggplants, ho melons, musk peppers, pine tomatoes
			25	Blackberries, boysenberries cucumbers, d grapes, logan raspberries, s squash
			20	Citrus fruits
			10	Strawberries, v
			5	Apricots, necta peaches
			15	Strawberries
			3.0	Apples, beans, cherries, peac (fresh prunes)
Dichlorvos DDVP	2,2 dichloro-vinyl dimethyl phosphate	DDVS Nogos Vapona	5.0	Cocoa beans
			2.0	Raw grain (wh rye, oats, barl sorghum, etc.
			0.5	Milled products raw grain
			2.0	Coffee beans, s lentils, peanut
			0.5	Mushrooms
			0.5	Fresh vegetabl (except lettu
			1.0	Lettuce
			0.5	Tomatoes
			0.1	Fresh fruit (app pears, peach strawberries, goats, pigs an
			0.05	Eggs (shell-fre
0.02	Milk (whole)			
0.1	Miscellaneous not otherwise			
Dicloran	2,6-dichloro-4-nitroaniline	Botran Allisan	20	Apricots, necta peaches, swe snap beans



Dicofol	2,2,2-trichloro-1,1-di(4-chlorophenyl)ethanol	Kelthane	15	Blackberries, boysenberries, raspberries, s
			5	Cucumbers, ga onions, tomat
Dieldrin	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo exo-5,8 dimethanonaphthalene		1.0	Plums (fresh p
			0.25	Potatoes
			5	Fruit, hops, veg tea (dry manu factured)
			0.1	Asparagus, bea broccoli, Brus sprouts, cabb cauliflower, ch cabbage, cow cucumber, eg horseradish, k kohlrabi, onio parsnips, pea peppers, pime radishes, radi soyabeans, tu
			0.1	Fruit (other tha citrus), maize
			0.05	Citrus fruit, sug
			0.02	Rice (rough)
			0.2	Potatoes
			0.2	Carrots, lettuce

Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Dieldrin- <i>continued</i>	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-endo exo-5,8 dimethanonaphthalene- <i>continued</i>		0.15	Milk and milk p (fat basis)
			0.02	Raw cereals (o rice)
Dimethoate	Dimethyl S-(N-methylcarbamoylmethyl) phosphorothiolothionate		0.1	Eggs (shell-fre
			2.0	Tree fruit (inclu citrus)
Dioxathion	1,4-dioxan-2,3-ylidene bis(OO-diethyl) phosphorothiolothionate	Delnav	1.0	Maize, millets a sorghum, tom and peppers
			2.0	Other vegetabl
			5.0	Pome fruit
			2.0	Grapes
			3.0	Citrus fruit
			1.0	Meat, excluding
Diphenyl	Biphenyl, or phenyl benzene		110	Citrus fruit
Diphenamid	NN-dimethyl-2,2-diphenylacetamide		1.0	Potatoes, strav
			0.1	Eggplants, pep pimentos, tom
Diphenylamine Diquat(cation)	9,10-dihydro-8a,10a-diazoniaphenanthrene ion	Diphenylamine	10.0	
			5	Rice (in husk)
			2.0	Rape seed, so
			0.1	Peas, beans, s

			0.1	Onions, potato
			0.1	rice (polished)
			2.0	Edible oils (ses
Disul-sodium	Sodium 4,dichlorophenoxy ethyl sulphate		6	seed, sunflow
Disulfoton	Diethyl S-[2-(ethylthio)ethyl] phosphorothiolothionate		0.75	rape seed, co
				Asparagus, stra
				Potatoes, pear
				Barley grain, b
				broccoli, Brus
				sprouts, cabb
				cauliflower, co
				lettuce, oatgra
				peanuts, peas
				pineapples, p
				rice, sorghum
				spinach, toma
			0.5	Hops, sugar be
			0.3	Coffee, maize
				sugar cane, w
				grain
Diuron	3-(3,4-dichlorophenyl)-1,1 dimethylurea		0.1	Peppers, soyab
			7	Asparagus
			1.0	Apples, articho
				barley grain,
				blackberries,
				blueberries,
				boysenberries,
				fruits, maize i
				or ear form (ir
				sweet corn, fi
				popcorn), cott
				currants, dew
				gooseberries,
				huckleberries
				loganberries,
				olives, pears,
				pineapple, po
				raspberries, r
				sorghum grain
				cane, vetch (s
				wheat grain
Dodine	Dodecylguanidine acetate	Melprex	5	Apples, cherrie
				pears

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Dodine- <i>continued</i>	Dodecylguanidine acetate- <i>continued</i>		10	Strawberries
			2.0	Peanuts, peas,
			0.3	soyabeans
				Black walnuts
				pecans
			0.2	Maize, millets,
				wheat
Endosulfan	6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzo(e)dioxathiepin-3-oxide	Thiodan Thionex	30	Tea (dry manu
			2.0	Fruit, vegetable
			0.5	Cottonseed
			0.2	Cottonseed oil
			0.1	Rice, unpolishe
Endrin	1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-exo-1,4-exo-5,8-dimethanonaphthalene		0.1	Cottonseed, cc
				oil (crude)
			0.2	Edible cottonse
				maize oil
			0.02	Apples, wheat,

			0.02	sorghum, rice and/or polished Milk and milk products (fat basis)
			1.0	Fat of poultry
EPN	Ethyl 4-nitrophenyl phenylphosphonothionate		0.2	Eggs (shell-free)
			3.0	Apples, apricots, beets, blackberries, boysenberries, citrus fruits, melons, dewberries, grapes, lettuce, loganberries, nectarines, olives, peaches, peaches, peaches, pineapples, plums, (fresh prunes), raspberries, raspberries, spinach, strawberries, sugar beets (table), tomatoes, turnips, youngberries
			0.5	Almonds, cottonseeds, pecans, walnuts
Ethion	Tetraethyl SS'-methylene bis (phosphorothiolothionate)		0.05	Soyabeans
			2.0	Grapes
			1.0	Other fruit
			0.5	Vegetables
			7	Tea
Etoxyquin	1,2-dihydro-6-ethoxy-2,2,4- trimethylquinoline		2.5	Meat (fat basis)
Ethylene dibromide EDB	1,2-dibromoethane		3.0	Apples, pears
			75	Broccoli, carrots, parsnips, potatoes, eggplant, okra, squash, sweet potatoes, sweet potatoes, tomatoes, tomatoes, sorghum and sorghum
			40	Pineapple
			30	Cucumbers, lettuce, peppers
			25	Cottonseed, peanuts
			10	Asparagus, cauliflower
			5	Lima beans, soybeans
Fenchlorphos	Dimethyl 2,4,5-trichlorophenyl phosphorothionate		7.5	Meat (fat basis)
			0.05	Egg yolk
Fenitrothion	Dimethyl 3-methyl-4- nitrophenyl phosphorothionate	Sumithion Folithion Danathion	0.04	Whole milk
			2.0	Maize and sorghum
			0.05	Apples, cherries, lettuce
			0.3	Red cabbage, tomatoes, (at harvest)
			0.2	Tomatoes
			0.1	Cocoa, coffee beans
			0.05	Milk products (fat basis)
			0.03	Meat or fat of meat
			0.02	Milk (whole)

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Common name	Chemical name	Trade name, if any, in	Tolerance*	
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		use in Zambia	p.p.m.	
Fentin acetate	Triphenyl tin acetate	Brestan	1.0	Celery
Fentin hydroxide	Triphenyl tin hydroxide }	Du-ter	0.2	Sugarbeet, car
			0.1	Potatoes, celer
			0.05	Peanuts (shelle
Fensulfothion	Diethyl 4-(methylsulphinyl) phenyl phosphorothioate		01	Maize grain, or potatoes, tom
			0.05	Peanuts, pinea sugarbeets
			0.02	Bananas, suga
			0.02	Meat, fat and n products of ca
				goats and she
Fenthion	Dimethyl 3-methyl-4-methylthiophenyl phosphorothionate	Lebaycid	2.0	Apples, peach cherries, fat o
			1.0	Cabbage, caulif olives, olive o
			0.5	Grapes, orange meat
Fenazaflor	Phenyl 5,6-dichloro-2-trifluoromethylbenzimidazole-1-carboxylate	LovozaI	0.2	Squash
			2.0	Apples
Ferbam	Ferric dimethyldithiocarbamate		7	Apples, apricot asparagus, be blackberries, peas, blueber broccoli, Bruss sprouts, cabb cauliflower, ce cherries, colla cranberries, c currants, date eggplants, go grapes, guava huckleberries kohlrabi, lettu loganberries, melons, must nectarines, or papayas, pea peanuts, pear peppers, plum prunes), pump quinces, radis raspberries, r spinach, squa strawberries, squash, toma
Folpet	N-(trichloromethylthio) phthalimide	Phaltan	0.1	Almonds
			30	Currants (fresh
			25	Grapes, bluebe
			15	Cherries, raspb
			10	Apples, citrus f
			5	Tomatoes, stra
			2.0	Cucumbers, ca (whole), wate (whole), onion

Fonolos	O-ethylphenyl ethylphosphonothiolathionate		0.1	Asparagus, ma peanuts, beet chicory, garlic onion, horsera jerusalem arti leeks, onions, potatoes, radi rutabagas, sa shallots, sprin sugar beets, s potatoes, turn
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\*Also includes practical residue limits occurring in foods not necessarily due to application to protect food against pest attack.

Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Formothion	S-(N-formyl-N-methylcarbamoylmethyl) dimethyl phosphorothiolothionate		0.3 2.0	Strawberries Blackcurrants
Glyodin	2-heptadecyl-2-imidazoline acetate	Crab Fungicide 341	5	Apples, cherries peaches, pears
Heptachlor	1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene		0.15 0.2 0.02 0.05	Milk and milk pro (fat basis) Fat of meat and Raw cereals, ton cottonseed, s edible soyab Vegetables (exc where other specified), eg
HHC (BHC)	Mixed isomers of 1,2,3,4,5,6-hexachlorocyclohexane		0.2 0.5 0.01 1.0 1.0	Carrots Crude soyabear Citrus fruit Apples, apricots asparagus, a broccoli, Bru sprouts, cabl cauliflower, c cherries, col cucumbers, c grapes, kale lettuce, melo nectarines, okra (dry bulb onl peaches, pe plums (fresh pumpkins, sp strawberries summer squ swiss chard,
Hydrogen cyanide	Hydrogen cyanide		75	Raw cereals
Lindane	Gamma isomer of benzene hexachloride		6 0.5 3.0 3.0	Flour Raw cereals Vegetables Cranberries, che grapes, plum stawberries
			2.0 1.0	Fat of meat (catt pigs, sheep) Maize and sorgh beans (dried
			0.2 0.1	Eggs (yolk) Milk and milk pro (fat basis)
Linuron	3-(3,4-dichlorophenyl)-1-		0.7 1.0	Poultry (fat basis) Carrots, potatoe

Malathion	S-[1,2-di(ethoxycarbonyl)ethyl]dimethyl phosphorothiothionate	Maladrex	0.25	soyabeans, m and meat by of cattle, goa horses and s
			8	Maize in grain o form, sweet t popcorn, cot barley, oats, sorghum and
			2.0	Raw cereals, nu dried fruits
			4.0	Whole meal and from rye and
			8	Citrus fruit Blackberries, raspberries, lett endive, cabbage

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Malathion- <i>continued</i>			8	chinese cabb marrow, soya spinach, maiz sorghum
			6	Avacado, cherr guava, mango mulberry, pea plums, pomeg
			5	Broccoli
			3.0	Tomatoes, kale
			2.0	Beans (green),
			1.0	Strawberries, c
			0.5	Pears, blueber (in pod), caul peppers, egg kohlrabi, roots turnips), swiss collards
Maleic hydrazide	6-hydroxy-3-(2H)-pyridazinone		50	Potatoes
			30	Beets, carrots, rutabagas
Mancozeb	A complex of zinc and maneb containing 20% manganese and 2.5% zinc	Dithane M-45	15	Onions
			2.0	Marrows and p
Maneb	Manganese ethylene-1,2-bisdithiocarbamate	Dithane M-22	1.0	Potatoes
			2.0	Bananas (edibl
			10	Apricots, beans (succulent), b Brussels spro cabbage, cau celery, chines collards, endi (escarole), ka kohlrabi, lett mustard green nectarines, pa peaches, rhu spinach, turni
			7	Apples, beans carrots, cranb cucumbers, e figs, grapes, r onions, peppe pumpkins, su

Mercapto-benzothiazole	Mercaptobenzothiazole		0.1 0.1	squash, sweet (kernels plus husks removed), tomatoes, turnip, winter squash, Almonds, potatoes, Apples
Methomyl	1-(methylthio)ethylideneamino N-methylcarbamate	Lannate	5 0.2	Cabbage, Fruiting vegetables, leafy vegetables (except cabbage), Maize grain (including sweet popcorn), fresh (kernels plus husks removed)
Methoxychlor	1,1,1-trichloro-2,2-dimethyl-4-methoxyphenylethane		14	Apples, apricots, asparagus, beans, blackberries, blueberries, boysenberries, Brussels sprouts, cabbage, cauliflower, cherries, collards, maize (in husk), cranberries, currants, dewberries, eggplants, grapes, kale, kidney beans, lettuce, loganberries, melons, mushrooms, nectarines, peaches, peanuts, pear-

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Methoxychlor-continued			14	peppers, pineapples, plums (fresh), pumpkins, quinces, radishes, raspberries, rutabagas, squash, strawberries, summer squash, tomatoes, turnips, youngberries
			7	Sweet potatoes
			3.0	Fat of meat from goats, hogs, horses
			2.0	Barley, maize, sorghum, wheat, of oats, rice, rye
Methyl bromide	Bromomethane	Dowfume	1.0	Potatoes
			100	Nuts, peanuts
			50	Raw cereals, cereals
			20	Dried fruits
			10	Milled cereal products
			0.5	Bread, other cereal products, cereal products, fruits and nuts
Methyl ester of	Methyl ester of $\alpha$ -naphthalene		9	Potatoes

$\alpha$ -naphthalene	acetic acid			
acetic acid				
Methyl formate	Methyl formate		250	Currants, dates
Mevinphos	2-methoxy-carbonyl-1-methylvinyl dimethyl phosphate	Phosdrin	0.25	Apples, asparagus, broccoli, Brussels sprouts, cabbage, cauliflower, collards, kale, mustard greens (green), pears, plums, raspberries, spinach, strawberries, tomatoes, turnip tops
			0.25	
Monuron	3-(4-chlorophenyl)-1,1-dimethylurea		7	Asparagus
			1.0	Avocados, citrus fruits, grapes, grape cottonseed, kidney lemons, limes, oranges, pineapple, sugarcane, tangerines
Nabam	Disodium ethylene-1,2-bisdithiocarbamate		7	Apples, apricots, beets, blackberries, black-eyed peas, broccoli, Brussels sprouts, cabbage, carrots, cauliflower, cherries, citrus, maize, cranberries, cucumbers, eggplants, gooseberries, guavas, kohlrabi, loganberries, mushrooms, onions, parsley, peaches, peas, peppers, pumpkins, radishes, raspberries, rutabagas, squash, summer squash, chard, tomatoes
Naled	1,2-dibromo-2,2-dichloroethyl dimethyl phosphate	Dibrom	0.5	Beans (dry and succulent forms), cucumbers, egg melons (cantaloupe), honeydew melons, watermelons, and others), and succulent

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Naled <i>continued</i>			0.5	peppers, pumpkins, rice, soya beans and succulent summer squash



			1.0	tomatoes, win
				Broccoli, Bruss
				sprouts, cabb
				cauliflower, le
			3.0	strawberries
				Chard, grapefru
				lemons, orang
				spinach, tang
				turnip tops
Nicotine	-3-(1-methyl-2-pyrrolidyl) pyridine		2.0	Apples, apricot
				artichokes, as
				beans, beets,
				blackberries,
				peas, boysen
				broccoli, Brus
				sprouts, cabb
				cantaloupes,
				celery, cherrie
				collads, maize
				cucumbers, e
				grapefruits, g
				green onions,
				kohlrabi, lemo
				lettuce, lima b
				limes, mushro
				melons, must
				nectarines, ok
				oranges, pars
				parsnips, pea
				peas, peppers
				plums, prunes
				pumpkins, qu
				radishes, ruta
				snapbeans, s
				strawberries,
				squash, swiss
				tangerines, to
				turnips, water
				winter squash
				youngberries
Omethoate	Dimethyl S-(N- methylcarbamoyl-methyl) phosphorothioate		2.0	Apples, beans,
				cabbage, cau
				collards, endi
				(escarole), ka
				lettuce, orang
				peas, peppers
				swiss chard, t
				turnips
			1.0	melons
			0.2	Potatoes
			0.1	Pecans
			0.04	Wheat grain
			0.02	Meat, fat and m
				products of ca
				hogs, horses
Omite	2-(P-T-butylphenoxy) cyclohexyl propargyl sulphite		3.0	Apples, citrus,
			3.0	plums, prunes
			4.0	Nectarines
			7	Apricots, peach
				grapes, straw
			30	Hops (dried)
Paraquat	1,1'-dimethyl-4,4'- bipyridylium ion	Gramoxone	0.2	Cottonseed
			0.1	Potatoes
			0.05	Cottonseed me
				cottonseed oi
				sugar cane ju
			0.7	Vegetables (ex
				carrots)
			1.0	Peaches, apric

Parathion	Diethyl 4-nitrophenyl phosphorothionate	Folidol	0.5	citrus fruit
			0.7	Other fresh fruit
			1.0	Vegetables (except carrots)
			0.5	Peaches, apricots, citrus fruit, Other fresh fruit

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Parathion-methyl	Dimethyl 4-nitrophenyl phosphorothionate		0.2	Fruit, cole crops, cucurbits
-	1,1-dichloro-2,2-bis(4-ethylphenyl)ethane	Perthane	1.0	Other vegetables
			0.05	Cottonseed oil
			15	Apples, broccoli, Brussels sprouts, cabbage, cauliflower, cherries, chinquapine, cabbage, endive, kohlrabi, lettuce, mustard greens, pears, spinach
2-phenyl phenol (and sodium salts)	2-hydroxydiphenyl		120	Cantaloupes (watermelons)
			25	Pears
			20	Carrots, peaches
			15	Sweet potatoes, plums (including prunes)
			10	Citrus fruit, cucumbers, peppers, cantaloupes (edible portions), pineapples, tomatoes
Phorate	Diethyl S-(ethylthiomethyl) phosphorothioate	0.3	3.0	Cherries, nectarines
			0.5	Hops, potatoes
			0.1	Sugar beet roots, Barley grain, barley, maize grain, sorghum (kernels plus hulls), husk removed, peanuts, rice, grain, sugar corn, tomatoes
Phosalone	S-(6-chloro-2-oxobenzoxazolin-3-yl)methyl diethyl phosphorothioate		4.0	Peaches
			6	Cherries
			10	Apples, pears
Phosmet	OO-dimethyl phtalimidomethyl phosphorothionate	Imidan	5	Plums
			7	Cherries
			10	Apples, grapes, pears
Phosphamidon	2-chloro-2-diethylcarbamoyl-1-methylvinyl dimethyl phosphate		0.1	Raw cereals
			0.5	Apples, pears
			0.4	Citrus fruit
			0.2	Other fruit, cole crops
			0.1	Tomatoes, lettuce, cucumbers, watermelons
			0.2	Other vegetables, root vegetables, which a tolerance is not required)
Piperonyl butoxide	5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole		20	Raw cereals
			8	Fresh fruit and vegetables, dried fruit and vegetables

Pyrethrins	4 hydroxy-3-methyl 2-(2,4-pentadienyl)-2-cyclopenten-1-one-2,2-dimethyl-3-(2-methyl-propenyl)cyclopropane-carboxylate and 4-hydroxy-3-methyl-2-(2,4-pentadienyl)-2-cyclopenten-1-one 1-methyl 3-carboxy-a,2,2-trimethylcyclopropane-acrylate ester	Morestan	1.0	seeds, treenu
			3.0	Dried cod fish
			1.0	Raw cereals
Quinomethionate	6-methyl-2-oxo-1,3-dithiolo (4,5-b)-quinoxaline	Morestan	0.1	Fresh fruit and vegetables, d and vegetable treenu
			6	Dried cod fish
			4.0	Strawberries
			3.0	Apricots, peach
Quintozene	Pentachloronitrobenzene	Morestan	1.5	Cherries
			1.0	Apples, honey melons, musk cantaloupes, summer squa
			0.75	Plums (fresh p
			10	Cucumbers, w winter squash
			5	Mushrooms
			1.0	Peanuts (whole)
			0.3	Bananas (whole)
				Lettuce, peanut (kernels)

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Quintozene- <i>continued</i>			0.2	Beans (navy),
			0.1	Tomatoes
			0.03	Cottonseed
			0.02	Bananas (pulp), sprouts, brocc
Schradan	bis-NNN'N'-tetramethyl-phosphorodiamidic anhydride			cabbage, chin
			0.01	cabbage, cau kale, kohlrabi
Simazine	2-chloro-4,6-bis(ethylamino)-1,3,5-triazine		0.75	Beans (other th peppers (bell)
			10	English walnuts
			0.5	Asparagus
Sodium orthophenyl	O-phenyl phenol, sodium salt		0.25	Artichokes
				Almonds, apple cherries, fresh including swe (kernels plus husks remove
				cranberries, c dewberries, fi grapefruit, gra lemons, logar macadamia n oranges, peach plums, raspbe strawberries,
			0.02	Eggs, milk, me and meat by-p of cattle, goat horses, poultr
			125	Cantaloupes
			25	Apples, pears

phenate			20 15 10	Carrots, peach Sweet potatoes Citrus fruits, cu peppers (bell) pineapples, to
Sutan	S-ethyl-NN-di-iso butylthiocarbamate		5 0.1	Cherries, necta Maize
Tecnazene	1,2,4,5-tetrachloro-3- nitrobenzene	Fusarex	25	Potatoes
Tetrachlorvinphos	Cisisomer of 2-chloro-1-(2,4,5- trichlorophenyl)vinyl dimethyl phosphate	Gardona	10	Apples, sweet (kernels plus husks remove grain
			8	Sorghum
			0.75	Fat of meat of p
			0.1	Eggs, meat and products of po
Tetradifon	2,4,4',5-tetrachlorodophenyl Sulphone		100 30 10 5	Peppermint, sp Fresh hops Figs Apples, apricot crabapples, c grapes, necta peaches, pea prunes, quinc strawberries
			2.0	Citrus fruits
			1.0	Cucumbers, m pumpkins, tom winter squash
TDE	1,1,dichloro-2,2-di- (4 chlorophenyl)ethane		7	Apples, apricot blueberries, c eggplants, gra melons, necta peaches, pea pumpkins, qu squash, sumr tomatoes
			3.5	Blackberries, b cherries, citru dewberries, lo plums (fresh p raspberries, strawberries, corn (kernels with husks re

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
TDE- <i>continued</i>			1.0	Broccoli, Bruss sprouts, cabb carrots, caulif kohlrabi, lettu rutabagas, sp turnips
Tetrasul	4-chlorophenyl 2,4,5- trichlorophenyl sulphide		0.1	Apples
Thiabendazole	2-4(4'-thiazolyl)benzimidazole	Tector	6 3.0 0.4	Citrus fruit Bananas
Thiram	Bis(dimethylthiocarbamoyl) disulphide		7	Bananas (pulp) Apples, celery, strawberries,

Toxaphene	Chlorinated camphene having a chlorine content of 67-69%		1.0 0.5 7	Bananas (edible) Onions (dry bulb) Apples, apricots blackberries, boysenberries Brussels sprouts cabbage, carrots cauliflower, cauliflower citrus fruit, corn maize, cranberries cucumbers, dill eggplants, fat from cattle, goats horses and sheep hazelnuts, hickory horseradish, horseradish kohlrabi, lettuce loganberries, okra, onions, peaches, peaches peas, pecans pimentos, quinces radishes, raspberries rutabagas, spinach strawberries, walnuts, young
Tricyclohexyltin hydroxide	Tricyclohexyltin hydroxide		5	Barley, oats, rice sorghum grain
Trifluralin	2,6-dinitro-NN-dipropyl-4-trifluoromethylamine	Treflan	2.0 2.0	Soybeans (dry) Apples, pears
Trizone	Methylbromide with added chloropierin and propargyl bromide		1.0 0.5	Carrots Citrus fruits, cucumbers cucurbits, fruit vegetables, grapes hops, leafy vegetables nuts, peanuts vegetables (except safflower seeds) vegetables, strawberries cane, sunflower grain
Zineb	Zinc ethylene-1,2-bisdithiocarbamate	Dithane Z-78	25 40 60 60 25	Broccoli, cauliflower peppers, pineapples strawberries Muskmelons, tomatoes Eggplants Hops Chinese cabbage endive, kale, lettuce mustard greens spinach, Swiss chard
			7	Apples, apricots beets, blackberries boysenberries Brussels sprouts carrots, cauliflower cherries, citrus cranberries, currants dewberries, gooseberries, guavas, kohlrabi loganberries, mushrooms, mushrooms onions, parsley peanuts, pear peppers, plum

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Common name	Chemical name	Trade name, if any, in use in Zambia	Tolerance* p.p.m.	
Zineb-continued				prunes), pumpkins, radishes, raspberries, rutabagas, saffron, strawberries, summer squash, tomatoes, turnips, youngberries
Ziram	Zinc dimethyldithiocarbamate		1.0 7	Wheat Apples, apricots, beets, blackberries, blueberries, boysenberries, Brussels sprouts, cabbage, cauliflower, cherries, collards, cranberries, cucumbers, dewberries, elderberries, gooseberries, kale, kohlrabi, loganberries, nectarines, oranges, peaches, peas, peppers, pumpkins, quinces, radishes, raspberries, rutabagas, squash, summer squash, tomatoes, turnips, youngberries
2,4-D	(2,4-dichlorophenoxy)acetic acid		0.1 0.2	Almonds Barley, oats, rye, wheat

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