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University of Nebraska Cooperative Extension EC99-2500-A

Cooperative Extension
Institute of Agriculture and Natural Resources
University of Nebraska

FEDERALLY REGISTERED RESTRICTED USE PESTICIDES

June 1999

Nebraska Cooperative
Extension Service
Extension circular
Received on: 10-04-99
University of Nebraska,
Lincoln -- Libraries



Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Kenneth R. Bolen, Director of Cooperative Extension, University of Nebraska, Institute of Agriculture and Natural Resources.



University of Nebraska Cooperative Extension educational programs abide with the non-discrimination policies of the University of Nebraska-Lincoln and the United States Department of Agriculture.

The list of federally registered restricted use pesticides published herein is intended solely to assist applicators, educators and consumers in recognizing products which may be classified for such use. The "Restricted Use" classification restricts a product or its uses to use by a certified pesticide applicator or under the direct supervision of a certified applicator. (For detailed information on the "Restricted Use" Classification, consult 40 CFR Subpart I, 152.160).

This list is based on the Restricted Use Products (RUP) Report database as maintained by the Office of Pesticide Programs, U.S. Environmental Protection Agency (EPA). The official list of Restricted Use pesticides is subject to periodic change. The active ingredient, isoxaflutole (Balance and Epic herbicides), holds a conditional registration and is not included by the EPA in its federally registered restricted use pesticides list. For a current list of federally registered restricted use pesticides, contact the nearest EPA office. In addition, individual state lead agencies must register these products before sale and use in their respective states.

Those active ingredients identified by an asterisk (*) are registered as restricted in the state of Nebraska by the Nebraska Department of Agriculture.

Additional pesticide-related information is available on the "Pesticide Education Resources" web site at <http://www.ianr.unl.edu/ianr/pat/ephome.html> from the University of Nebraska-Lincoln.

Larry D. Schulze
Extension Pesticide Coordinator
University of Nebraska-Lincoln

Federally Restricted Use Pesticides

by Larry D. Schulze, Extension Pesticide Coordinator

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Acetic acid	Shotgun	Herbicide	Emulsifiable concentrate	Certain berry crops, bananas, pineapple, chinese cabbage, potatoes, corn (field, pop, sweet, forage), forage/fodder grasses
Acetochlor*	Harness, Surpass, Doubleplay, Topnotch	Herbicide	Emulsifiable concentrate	Field corn, popcorn, forage/fodder corn
Acrolein	Magnacide H and B, Aqualin	Herbicide	As sole active ingredient	All uses
Alachlor*	Lasso, Lasso II, Lasso Micro-Tech, Partner, Bullet, Bronco, Freedom, Ala-Scept, others	Herbicide	All formulations	All uses
Aldicarb*	Temik	Nematicide; insecticide	As sole active ingredient and in combination with other actives; all granular formulations	All uses
Aluminum phosphide*	Detia, L-Fume, Fumitoxin, Tri-Tox, Phostoxin, Gastoxin, Gastoxin, Quik-Fume, Detta Fumex, others	Fumigant ingredient	As sole active	All uses
Amitraz	Mitac, Taktic	Insecticide, miticide	All formulations	Pears
Amitrole	Amizol	Herbicide	All formulations	All uses except homeowner
Arsenic acid	Desiccant L-10, Hy-Yield H-10, Poly Brand Dessicant, CCA Type C, Chemonite Part A	Herbicide, wood preservative	All formulations except brush-on	All dessicant uses, all wood preservative uses
Arsenic pentoxide*	Osmose K-33, Chromated Copper Arsenate, CCA, Wolmanac, Wood-Last	Wood preservative	All formulations	Wood preservative uses
Atrazine*	Atrazine, AAtrex, Bicep, Extrazine, Bullet, Laddok, Marksman, Guardsman, Cynex, Harness Xtra, others	Herbicide	All manufacturing and end use formulations	Agricultural and/or industrial herbicide, home use exempted from restrictions
Avermectin*	Zephyr, Agri-Mek	Insecticide	Emulsifiable concentrate	Cotton, citrus
Avitrol*	Avitrol	Bird control	All formulations	All uses

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Azinphos-methyl*	Guthion, G-Thion, Ketokil No. 52, Azinphos M, others	Insecticide	All liquids with a concentration greater than 13.5%, all other formulations on a case by case basis	All uses
Bendiocarb*	Turcam	Insecticide	Granular and wettable powder	Turf
Bifenthrin*	Capture 2, Brigade, Talstar	Insecticide	Emulsifiable concentrate	Cotton
Bis(tributyltin) oxide	Interlux Micron, Interswift BKA007, Super Sea Jacket, Sigmaplane 7284, Navicote 2000, AF-SeafloZ-100	Biocide	Solution, ready to use	Antifouling paint
Carbofuran*	Furadan	Nematicide, insecticide	All formulations, except pellets/tablets	All uses
Carbon dioxide	Makr carbon dioxide	Fumigant	Pressurized gas	Grain crops, beans, fruits, grain products, empty grain/flour bins, elevators, handling equipment, shipping containers, cereal mills
Chlorophacinone*	Rozol Tracking Powder, Rozol Blue Tracking Powder	Rodenticide	Tracking powder, dust and ready-to-use formulations 0.2%	Inside buildings
Chloropicrin*	Timberfume, Chlor-O-Pic, Tri-Con, Brom-O-Gas, Terr-O-Gas, Pic-Brom, Bro-Mean, Pic-Chlor, Dowfume, Metabrom, Metapicrin, others	Fumigant, fungicide, rodenticide	All formulations greater than 2% and all formulations for rodent control	All uses
Chlorothalonil	Dacobre	Fungicide	Water dispersible granules	Cranberries, strawberries, almonds, walnuts, crabapples, pears, quinces, apricots, cherries and nectarines
Chlorothoxyfos*	Fortress	Insecticide	Granular	Corn: pop, field, sweet, forage
Chlorpyrifos*	Lorsban 4E-SG, Chlorpyrifos 4E-SG	Insecticide	Emulsifiable concentrate	Wheat
Chromic acid*	CCA (Chromated Copper Arsenate), Osmose K-33, others	Wood preservative	All formulations except brush-on	All wood preservative uses
Clofentezine	Apollo SC	Miticide	Apollo SC	All uses
Coal tar	60/40 Creosote Coal Tar Solution	Wood preservative	Solution, ready to use	Wood preserving compounds

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Coal tar creosote	Creosote Oil, Creosote Coal Tar, Creosote Solution, Smoplastic-F, Osmoplastic-D	Wood preservative	All formulations	Wood preservative uses
Copper oxychloride	Dacobre DG	Fungicide, bactericide	Flowable concentrate	Several berry and citrus crops
Coumaphos*	CO-RAL	Insecticide	Flowable concentrate	Indoor
Creosote oil*	Original Carbolineum, Osmoplastic SD	Wood preservative	All formulations	Wood preservative
Cubé resins	Cubé powder, NUSYN, Noxfish, Rotenone Fish Toxicant	Insecticide	Emulsifiable concentrate	Small fruits, currants, certain berries
Cyanazine*	Bladex, Extrazine, Cycle, Cynex	Herbicide	All formulations	All uses
Cyfluthrin*	Baythroid 2, Aztec, Tempo 2	Insecticide	25% emulsifiable concentrate	Agricultural
Cyhalothrin	Karate C50	Insecticide	Emulsifiable concentrate	Cotton
Cypermethrin*	Ammo, Cynoff	Insecticide	All formulations	All agricultural crop uses
Deltamethrin*	Decis, Striker, Deltagard	Insecticide	Emulsifiable concentrate	Cotton
Diazinon*	Diazinon, others	Insecticide	Granular, emulsifiable concentrates, wettable powders	Small fruits, certain berries, currants, grapes
Dichloenil	Sewerout II	Herbicide	2,6-dichlorobenzonitrile	Terrestrial
Dichloropropene*	Telone, Tri-Form, Pic Clor, Brom 70/30	Soil fumigant	All formulations (94% liquid concentrate is the only formulation)	All uses
Diclofop methyl	Hoelon 3 EC or 3 EW, Brestan H	Herbicide	All formulations	All uses
Dicrotophos	Chiles' Go-Better, Mauget Inject-A-Cide B	Insecticide	All liquid formulations 8% and greater	All uses
Diflubenzuron*	Dimilin, Micromite	Insecticide	Wettable powders	All uses
Dioxathion	Cooper Del-Tox Delnav	Insecticide, miticide	All concentrate solutions or emulsifiable concentrates greater than 30%, all solutions 3% and greater for domestic uses	All uses

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Diphacinone*	Promar Tracking Powder	Rodenticide	Dust	Ag/household structures/premises, food processing facilities, commercial/ industrial areas
Disulfoton*	Di-Syston, Root-X, Stand-Aid, Rigo Insyst-D	Insecticide	All ECs 65% and greater, all ECs and concentrate solutions 21% and greater with fensulfothion 43% and greater, all ECs 32% and greater in combination with 32% fensulfothion and greater	All uses, commercial seed treatment (non-aqueous solution 95% and greater).
Endrin	Endrin 1.6 EC	Insecticide	9.4% liquid	Bird perch use
Ethion	Ethion 8	Insecticide	Emulsifiable concentrate	All uses
Ethoprop*	Mocap, Holdem	Insecticide	Emulsifiable concentrates 40% and greater (aquatic), all granular and fertilizer formulations	Aquatic uses (40% or greater), all granular and fertilizer uses
Fenamiphos*	Nemacur	Nematicide	Emulsifiable concentrates 35% and greater	All uses
Fenbutatin-oxide*	Vendex 50	Miticide	Wettable powder	Grapes
Fenitrothion	Sumithion	Insecticide	Emulsifiable concentrate, 93% soluble concentrate/ liquid	Only forestry uses
Fenpropathrin*	Danitol, Tame	Insecticide, miticide	2.4 EC spray	Cotton
Fenthion*	Mosquitocide 700, Baytex, Rid-a-Bird	Insecticide	Emulsifiable concentrate	Mosquitocide
Fenvalerate*	Asana XL, Fury 1.5	Insecticide	Emulsifiable concentrates (30%)	Outdoor uses
Fipronil*	Regent, Icon	Insecticide	All formulations	Insecticide, miticide
Hydrogen cyanamide	Dormex	Herbicide	50% active ingredient	Desert grown grapes
Isazofos*	Triumph 4E	Insecticide	All formulations	All uses
Isoxaflutole*	See <i>Editor's Note</i> on inside cover and see label.			
Lambda cyhalothrin*	Karate, Scimitar, Demand, Warrior	Insecticide	All formulations	All uses

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Lindane*	Lindane, Borer Spray, Prenox, others	Insecticide	All formulations for various uses (Some formulations are GUPs - Editor)	Avocados, pecans, livestock sprays, forestry, Christmas trees, commercial ornamentals, structural treatments, dog dusts/ shampoos
Magnesium phosphide*	Magtoxin, Phostoxin, Fumi-Cel Plate, Magnaphos	Insecticide, fumigant	All formulations	All uses
Methamidophos*	Monitor 4	Insecticide	Liquid formulation 40% and greater, dust formulations 2.5% and greater	All uses
Methidathion	Supracide	Insecticide, miticide	All formulations	All uses except nursery stock, safflower and sunflower
Methiocarb*	Mesurol, Slug'm	Insecticide, molluscicide	All formulations	Outdoor commercial and ag uses
Methomyl*	Lannate, Methomyl 5G, Lannabait	Insecticide	As sole active ingredient in 1% to 2.5% baits (except 1% fly bait), all concentrated solution formulations and 90% WP formulations (not in water soluble bags)	Non-domestic outdoor ag crops, ornamentals and turf; all other registered uses
Methyl bromide*	Meth-O-Gas, Terr-O-Gas, Brom-O-Gas, Bro-Mean, Pic-Brom, Metabrom, Tri-Con, Tri-Brom, others	Fumigant	All formulations	All uses
Methyl isothiocyanate*	Degussa methyl isothiocyanate	Wood preservative	Solution, ready to use	Fungicide for wood, wood preservative
Mevinphos	Phosdrin, Duraphos, others	Insecticide	Emulsifiable concentrates, 2% dust	All uses
Niclosamide	Bayluscide	Molluscicide, larvicide	70% wettable powder and greater	All uses
Nicotine*	Nicotine, 4-Tin	Insecticide, fumigant	Liquid and dry formulations 14% and above (greenhouse); all formulations to cranberries	Greenhouse applications, all applications to cranberries
Nitrogen, liquid	Liquid nitrogen	Insecticide	Solution, ready to use	Termiticide
Oxamyl*	Vydate	Nematicide, insecticide	Liquid formulations; granular on a case by case basis	All uses

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Oxydemeton methyl*	Metasystox-R, Dylox/MSR, Inject-A-Cide, Harpoon	Insecticide	All products	All uses
Paraquat*	Paraquat, Gramoxone, Gramoxone Extra, Prelude, Surefire, Cyclone	Herbicide	All formulations and concentrations except for certain mixtures, see label	All uses
Parathion, ethyl*	Parathion, Phoskil, Parawet, Durathion, Dithion, Paraspray, others	Insecticide	All formulations	All uses
Parathion, methyl*	Methyl parathion, Pennacap-M, Terrazole 5%, Dithon 63, Seis-Ties 6-3, Paraspray, others	Insecticide	All formulations	All uses
Pentachlorophenol*	Penta, PCP, Pol-NU, Oz-88, Pentacon, Osmoplastic-F, Forepen, Dura-Treet, Penwar, others	Wood preservative	All formulations	Wood preservative uses
Pentachlorophenol, Sodium S	Mitrol G-ST, Dura Treat II	Wood preservative	All formulations	Wood preservative uses
Permethrin*	Pounce, Ambush, Ketokil, Biomist	Insecticide	All formulations	Ag crop uses (broadcast spray)
Phorate*	Thimet, Rampart, Phorate, Holdem, Milo Bait, others	Insecticide	Liquid formulations 65% and greater, all granular formulations on rice	All uses
Phostebupirim	Aztec	Insecticide	Granular	Corn: pop, field, sweet, forage
Picloram*	Tordon 22K / K / 101, Grazon, Grazon P+D, Toram 101	Herbicide	All formulations and concentrations except Tordon 101R	All uses
Piperonyl butoxide	Vex, Obilique, Scourge, NUSYN, Ultra TEC, Prentox	Insecticide	Emulsifiable concentrate	Small fruits, certain berries, currants
Profenophos	Curacron	Insecticide	Emulsifiable concentrate 59.4%	Cotton
Pronamide*	Kerb	Herbicide	All 50% wettable powders	All uses
Propanoic acid	Bugle	Herbicide	Emulsifiable concentrate	Wheat, cotton, rice, clover, alfalfa, wheatgrass, sideoats grama, little bluestem, edible chrysanthemum
Propetamphos	Zoecon	Insecticide	Emulsifiable concentrates 50%	Indoor domestic use

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Resmethrin*	Oblique, Bonide, SBP-1382, Scourge	Insecticide	All formulations	Mosquito abatement and pest control treatments at non-ag sites
Rotenone*	Rotenone, Noxfish, NUSYN, Synpren, Prenfish, Chem-Fish, Cube'	Fish toxicant	2.5 / 5.0 EC, 5.0% + 20% wettable powder	Fish kill - lakes, ponds and streams (immediately above lakes and ponds)
Simazine	Simazine, Printrex, Simazat	Herbicide	Emulsifiable concentrate	Berries (cane, black, blue, logan, cran., rasp., straw.), grapes
Sodium cyanide*	M-44 Cyanide, DRC-1339	Rodenticide	All capsules and bait formulations	All uses
Sodium dichromate	Osmoplastic SD, CSI 70%	Wood preservative	All wood preservative formulations	All formulations except brush-on
Sodium fluoracetate	Compound 1080 Livestock Protection Collar	Rodenticide	All solutions and dry baits	All uses
Sodium hydroxide	Augus Hot Rod	Herbicide	Ready to use solution	Control tree roots in sewage systems
Sodium methyl dithiocarbamate*	Metam Sodium, Metam S.A.U., Vaporooter	Fumigant, herbicide	32.7% anhydrous	Soil fumigant to control soilborne pests to ornamentals, food and fiber crops
Starlicide	Gull Toxicant, Compound DRC	Bird repellent	98% concentrates	Bird repellent
Strychnine*	Strychnine, Pocket Gopher Bait, Gopher Getter, Gopher-Rodent Killer, others	Rodenticide	Dry baits, pellets and powder formulations, see label for specifics	Various uses
Sulfotepp*	Dithio Insecticidal Smoke	Insecticide	Sprays and smoke generators	All uses
Sulfuric acid*	Sulfuric acid	Desiccant	Solution, ready to use	Desiccant for potato vines
Sulfuryl fluoride*	Termafume, Vikane	Fumigant	All formulations	All uses
Sulprofos	Bolstar 6	Insecticide	All formulations	All uses
Tefluthrin*	Force	Insecticide	Granular product	Corn grown for seed
Terbufos*	Counter	Insecticide	Granular formulations 15% and greater	All uses
TFM	Sea Lamprey Larvicide, TFM Bar	Biocide	Impregnated material	Aquatic pest control
Tralomethrin*	Scout, Striker	Insecticide	All formulations	All ag crop uses
Tri-isopropanolamine	Toram 101	Herbicide	Emulsifiable concentrate	All uses

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Tributyltin fluoride	Polyflo, KL-990, Pro-Line 1077, Vin Clad Super Vinge	Biocide	Solution, ready to use	Antifouling paint
Tributyltin methacrylate	Interlux Micron, Interswift BKA007, Intersmooth Hisol, M&T Polyflo, Amercoat, Biocop, AF-SeafoZ-100, Hempel's, others	Biocide	Solution, ready to use	Antifouling paint
Triphenyltin hydroxide*	Super Tin, Du-Ter, Brestan R, Photon, Protex	Fungicide	All formulations	All uses
Zinc phosphide*	Ridall-Zinc Rodent Field/Ag Bait, ZP Tracking Powder, ZP Rodent Bait, others	Rodenticide	All dry formulations 60% and greater, all bait formulations, all dry formulations 10% and greater for domestic uses	All uses with 60% and greater, non-domestic outdoor bait uses (other than 1-2% formulation in/around bldg.); domestic uses

Chemicals Deleted from the Restricted Use List Because of Product Cancellation

Active Ingredient	Trade Name	Pesticide Type
Acrylonitrile	Acritet 34-66	Fumigant, insecticide
Allyl alcohol	Weed Seed Killer	Herbicide
Alpha-chlorohydrin	Epibloc	Rodenticide
Brodifacoum	Talon G	Rodenticide
Butylate	Sutazine	Herbicide
Cadmium chloride	Caddy	Fungicide
Calcium cyanide	A-Dust, G-Fumigant	Insecticide
Carbon tetrachloride	Dowfume 75, Vulcan Formula 72	Fumigant
Chlordane	Chlordane	Termiticide
Chlordimeform	Galecron, Fundal	Insecticide, miticide
Chlorfenvinphos	Poultry Premise Larvicide	Insecticide
Chlorobenzilate	Acaraben, Benz-o-chlor, Benzilan	Insecticide
Creosote	BL Coal tar creosote (non pressure)	Wood preservative
Cycloheximide	Acti-Aid	Fumigant, insecticide
DBCP	Nematocide EM or Solution	Fumigant
Demeton	Systox 2, Systox 6, Demox, Stemite	Insecticide
Diallate	Avadex	Herbicide
Dodemorph	Milban	Fungicide
EPN	EPN, Barricade, Ketokil, Veto, others	Insecticide, miticide
Ethylene dibromide*	TRI-X Garment Fumigant, Infuco Dibrome	Fumigant
Fensulfothion	Dasanit, BIG-D Granules	Insecticide
Flucythrinate	Pay Off, AASTAR	Insecticide
Fluoroacetamide	Fluoracetamide/1080	Rodenticide
Fonofos	Dyfonate	Insecticide
Hydrocyanic acid	HCN	Fumigant
Isofenphos	Pryfon 6, Amaze 6	Termiticide
Monocrotophos	Azodrin, DPHMC 5, Chiles' Go-Better	Insecticide
Phosacetim	Gophacide, Gopher-Trol, others	Rodenticide
Phosalone	Zolone	Insecticide
Phosphamidon	Phosphamidon 8	Insecticide
Potassium pentachlorophenate	Permattox 180 or 182	Wood preservative
Sodium arsenate	Sodium arsenate, Osmosalts	Wood preservative
Sodium pyroarsenate	Wolman Salts CCA-Type B	Wood preservative
TEPP	Miller Kilmite-40	Insecticide
Tergitrol	Compound PA-14	Bird control
Toxaphene	Toxaphene	Insecticide
Trifluralin	Canon	Herbicide