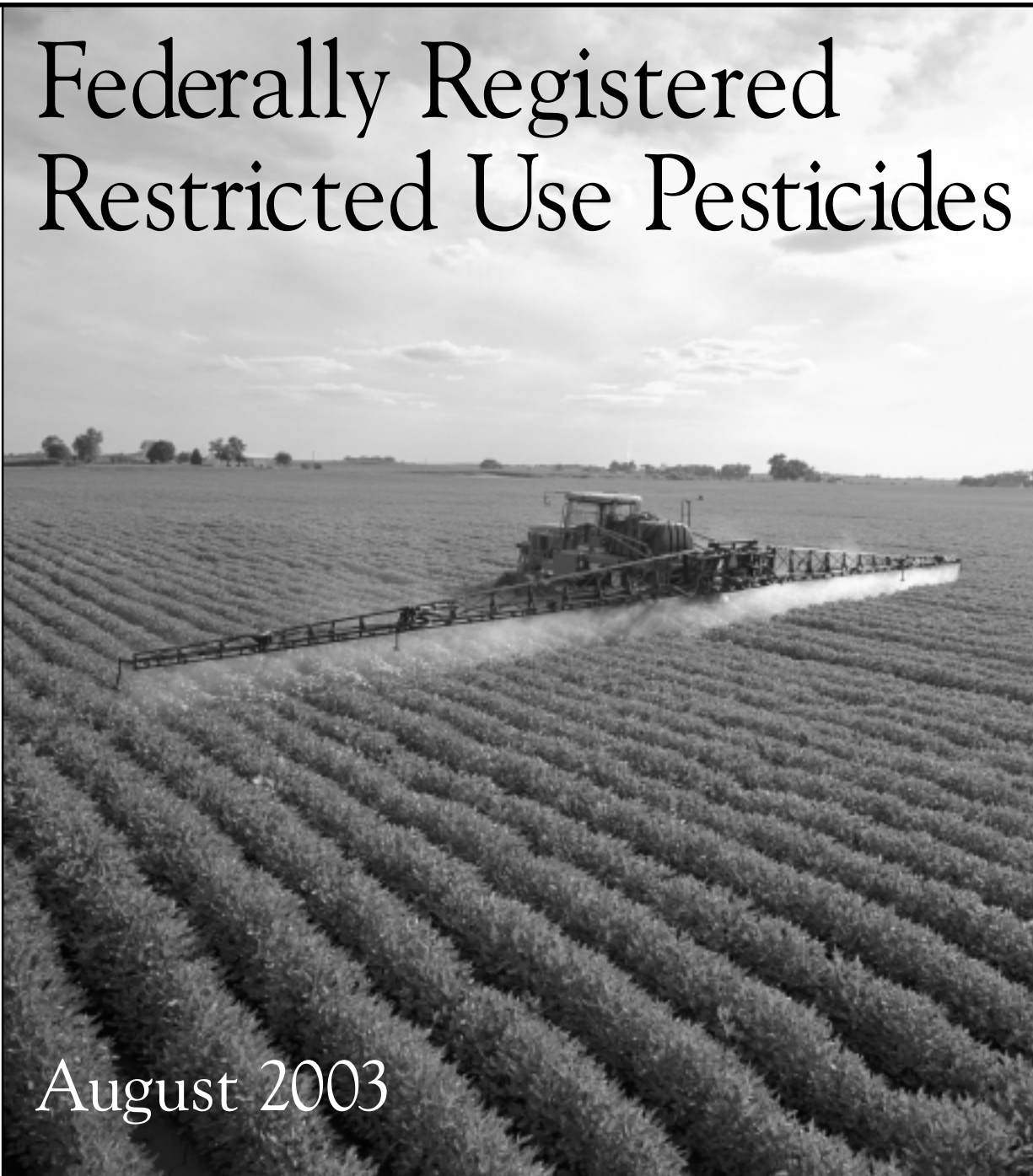


Cooperative Extension  
Institute of Agriculture and Natural Resources  
University of Nebraska

# Federally Registered Restricted Use Pesticides



August 2003



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

The University of Nebraska-Lincoln does not discriminate on the basis of gender, age, disability, race, color, religion, marital status, veteran's status, national or ethnic origin, or sexual orientation.

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 and/or licensed pesticide applicator or under the direct supervision of such applicator. (For detailed information on the “Restricted Use” Classification, consult 40 CFR Subpart I, 152.160).

This publication is based on the Restricted Use Products (RUP) Report database as maintained by the Office of Pesticide Programs, U.S. Environmental Protection Agency (see <http://www.epa.gov/opprd001/rup/>). This publication follows the EPA report format and lists the active ingredients as cross-referenced with the restricted use pesticides / product trade names. 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 (\*) have product trade names registered for restricted use 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 the University of Nebraska-Lincoln. See <http://PestEd.unl.edu> for this site.

I extend my appreciation to Judy Johnson of our Pesticide Education Office for her assistance in the review of the EPA database and revision of this publication.

Larry D. Schulze  
Extension Pesticide Education Specialist  
University of Nebraska-Lincoln

# Federally Restricted Use Pesticides

by Larry D. Schulze, Extension Pesticide Education Specialist

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Acetochlor*	Harness, Surpass, Doubleplay, Topnotch, Acetochlor, Fultime, Degree	Herbicide concentrate	Emulsifiable forage/fodder corn	Field corn, popcorn,
Acrolein*	Magnacide H and B, Aqualin	Herbicide	As sole active ingredient	All uses
Alachlor*	Lasso II, Lasso, Lasso and Atrazine Flowable, Lasso Micro-Tech, Partner WDG, Bullet, Freedom, Shroud	Herbicide	All formulations	All uses
Aldicarb*	Temik	Nematicide; insecticide; miticide	As sole active ingredient and in combination with other actives; all granular formulations	All uses
Aluminum phosphide*	Fumex, Tri-Tox, 27 Stoxin, Gastoxin, Quick Fume, Detia Gas/Tablet/Pellets, Detia Rotox AT/AP, Fumidtoxin, Phostoxin, Fumi-cell/Fumi Strip, Magtoxin, Detia Fumex, others	Fumigant ingredient	As sole active	All uses
Amitraz	Mitac, Tactic	Insecticide, miticide	All formulations	Pears
Amitrole	Amizol	Herbicide	All formulations	All uses except homeowner
Arsenic acid	Chemonite Part A, Hy-Yield H-10, Dessicant L-10, Poly Brand Dessicant, CCA Type C, CSI Arsenic Acid, Koppers Arsenic Acid	Herbicide, wood preservative	All formulations except brush-on	All dessicant uses, all wood preservative uses
Arsenic pentoxide	Osrose K-33, Chromated Copper Arsenate, CCA, Wolmanac, Wood-Last	Wood preservative	All formulations	Wood preservative uses
Atrazine*	Atrazine, AAtrex, Axiom AT, Bicep, Bicep Magnum, Bullet, Cynex, Marksman, Guardsman, Centric, Harness, Basis Gold, FulTime, Liberty ATZ, Surpass, Sutazine, Lariat, others	Herbicide	All manufacturing and end use formulations	Agricultural and/or industrial herbicide; home use exempted from restrictions
Avermectin ( <i>Editor's note:</i> Non-EPA sources list A.I. as abamectin*)	Zephyr, Agri-Mek	Insecticide	Emulsifiable concentrate	Cotton, citrus ( <i>Editor's note:</i> Some labels list active ingredient as "abamectin" with additional sites.)

\*Active ingredient that has product name(s) registered for restricted use in Nebraska by Nebraska Department of Agriculture.

<b>Active Ingredient</b>	<b>Trade Name</b>	<b>Pesticide Type</b>	<b>Restricted Formulations</b>	<b>Use Pattern</b>
Avitrol ( <i>Editor's note: Non-EPA sources list A.I. as aminopyridine*</i> )	Avitrol	Bird control	All formulations	All uses
Azinphos-methyl*	Guthion, Ketokil No. 52, Azinphos M, Dutox, others	Insecticide	All liquids with a concentration greater than 13.5%, all other formulations on a case by case basis	All uses
Bendiocarb*	Turcam, Turcam Plus	Insecticide	Granular and wettable powder	Turf
Bifenthrin*	Capture, Brigade, Talstar	Insecticide, miticide	Emulsifiable concentrate	Cotton
Bis(tributyltin) oxide	Interlux Micron, Interswift BKA007, Super Sea Jacket, Hempel's Antifouling Combic, Navicote 2000, AF-SeafloZ-100	Biocide	Solution, ready to use	Antifouling paint
Carbofuran*	Furadan	Nematicide, insecticide	All formulations, except pellets/tablets	All uses
Chlorethoxyfos*	Fortress	Insecticide	Granular	Corn: pop, field, sweet, forage
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 MC-33, Metabrom, Metapicrin, Methyl Bromide mixtures, Hi Yield 98-2, Telone, others	Fumigant, fungicide, rodenticide	All formulations greater than 2% and all formulations for rodent control	All uses (greater than 2% including rodent control)
Chlorpyrifos*	Lorsban, Cyren TC, Dur-O-Cap, Dursban, Pkylrifox, Super Brand D, Strikeforce, Reside, Killmaster II, Pestban, Pryinex, Nufos, Navigator, Chlorpyrifos, Chlorfos, Pilot, Empire, Equity, Lentrek, Ditox, Termiticide T/C	Insecticide	Emulsifiable concentrate	Wheat
Chromic acid*	CCA (Chromated Copper Arsenate), Osmose K-33, Chromic Acid, Timberfume, Osmoplastic, Timberlife, Wolmanac, others	Wood preservative brush-on	All formulations except uses	All wood preservative
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
Coal tar creosote	Creosote Oil, Creosote Coal Tar, Creosote Solution, Smoplastic-F, Osmoplastic, Osmoplastic SD	Wood preservative	All formulations	Wood preservative uses

<b>Active Ingredient</b>	<b>Trade Name</b>	<b>Pesticide Type</b>	<b>Restricted Formulations</b>	<b>Use Pattern</b>
Coumaphos*	CO-RAL	Insecticide	Flowable concentrate	Indoor food and indoor nonfood
Creosote oil	Original Carbolineum, Osmoplastic SD	Wood preservative	All formulations	Wood preservative
Cube Resins Other Than Rote PM	NUSYN, Noxfish, Rotenone Fish Toxicant, Cube Powder	Insecticide	Emulsifiable concentrate	Small fruits, currants, certain berries
Cyanazine*	Bladex, Cycle	Herbicide	All formulations	All uses
Cyfluthrin*	Baythroid 2, Aztec, Tempo 2, Legend 2.7, Renounce 20WP, Leverage	Insecticide	25% emulsifiable concentrate	Agricultural
Cyhalothrin*	Karate C50	Insecticide	Emulsifiable concentrate	Cotton
Cypermethrin*	Ammo, Cynoff, Cypermethrin Technical	Insecticide	All formulations	All ag. crop uses
Deltamethrin*	Decis, Striker, Deltaguard	Insecticide	Emulsifiable concentrate	Cotton
Diazinon*	Diazinon, Knox Out NL, Diasol, Drexel, others	Insecticide	Granular, emulsifiable concentrates, wettable powders	Small fruits, certain berries, currants, grapes
Dichlobenil*	Sewerout II, Sanaform Vaporooter	Herbicide	2,6-dichlorobenzonitrile	Terrestrial
Dichloropropene*	Telone, Tri-Form, Pic Clor, Inline, Brom 70/30,	Soil fumigant	All formulations (94% liquid concentrate is the only formulation)	All uses
Diclofop methyl*	Hoelon 3 EC, Brestan H	Herbicide	All formulations	All uses
Dicrotophos	Chiles' Go-Better, Mauget Inject-A-Cide B	Insecticide 8% and greater	All liquid formulations	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
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).
Emamectin Benzoate*	Proclaim	Insecticide, miticide	4-Epimethylamino-4 Deoxykavermectin BLA and B1b Benzoates	Insecticide, miticide
Endrin	Velsicol Endrin 1.6 EC		9.4% Liquid (All others cancelled)	Bird perch use

Active Ingredient	Trade Name	Pesticide Type	Restricted Formulations	Use Pattern
Ethion	Ethion	Insecticide, miticide	Only two products	All uses
Ethoprop*	Mocap, Holdem	Nematicide, insecticide	Emulsifiable concentrates 40% and greater (aquatic uses); all granular and fertilizer formulations	Aquatic uses (ECs 40% or greater); All uses (granular and fertilizer formulations)
Fenamiphos*	Nemacur	Nematicide, insecticide	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	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
Isoxaflutole*	Balance, Epic	Herbicide	See <i>Editor's Note</i> on inside cover and see label	See label
Lambda cyhalothrin*	Karate, Scimitar, Demand CS, Warrior	Insecticide	All formulations	All uses
Lindane*	Or-Cal Metam-S.A.U., Purina Hot Dust, Lindane, Dowfume	Insecticide	All formulations for various uses	Avocados, pecans, livestock sprays, forestry, Christmas trees, commercial ornamentals, structural treatments, dog dusts/ shampoos
Magnesium phosphide*	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*	Mesuroil	Insecticide, molluscicide	All formulations and ag uses	Outdoor commercial

<b>Active Ingredient</b>	<b>Trade Name</b>	<b>Pesticide Type</b>	<b>Restricted Formulations</b>	<b>Use Pattern</b>
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, Trical Telone, Brom-O-Sol, MBC, M-B-2, M-33, others	Fumigant	All formulations	All uses
Methyl isothiocyanate*	Mitc-Fume, Degussa methyl	Wood preservative	Solution, ready to use isothiocyanate	Fungicide for wood, wood preservative
Mevinphos	Phosdrin, Duraphos	Insecticide	Emulsifiable concentrates, 2% dust	All uses
Niclosamide	Bayluscide	Molluscicide, larvicide	70% wettable powder and greater	All uses
Nicotine	Nicotine, 4-Tin, Fulex	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
Oxydemeton methyl*	Dylox/MSR, Inject-A-Cide, Harpoon, Metasystox-R	Insecticide	All products	All uses
Paraquat*	Gramoxone, Gramoxone Extra, Prelude, Surefire, Cyclone, Griffin BOA, Marman Herbiquat	Herbicide	All formulations and concentrations except for certain mixtures; see label	All uses
Parathion, ethyl*	Parathion, Phoskil, Parawet, Durathion, Paraspray, Ethyl-Methyl Parathion, others	Insecticide	All formulations	All uses
Parathion, methyl*	Methyl Parathion, MP-4, 6-3, Methyl 4, others	Insecticide	All formulations	All uses
Pentachlorophenol*	Penta, Pol-NU, Oz-88, Pentacon, Osmoplastic-F, Forepen, Dura-Treet, Penwar, Vulcan, 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 No. 52, Biomist	Insecticide	All formulations	Ag crop uses (broadcast spray)

<b>Active Ingredient</b>	<b>Trade Name</b>	<b>Pesticide Type</b>	<b>Restricted Formulations</b>	<b>Use Pattern</b>
Phorate*	Thimet, Rampart, Phorate, Holdem, Milo Bait, others	Insecticide	Liquid formulations 65% and greater; all granular formulations on rice	All uses
Phostebupirim* (tebupirimphos)	Aztec	Insecticide	Granular	Corn: pop, field, sweet, forage
Picloram*	Tordon 22K / K, Grazon PC	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	Silverado	Herbicide	Emulsifiable concentrate	Wheat, cotton, rice, clover, alfalfa, wheatgrass, sideoats grama, little bluestem, edible chrysanthemum
Propetamphos	Zoecon	Insecticide	Emulsifiable concentrates 50%	Indoor domestic use
Pyrethrins	Buggone II	Insecticide	Emulsifiable concentrate	No uses listed
Resmethrin*	Oblique, Bonide, SBP-1382, Scourge, Synthrin	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 ball 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, Sodcure	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

<b>Active Ingredient</b>	<b>Trade Name</b>	<b>Pesticide Type</b>	<b>Restricted Formulations</b>	<b>Use Pattern</b>
Strychnine*	Strychnine, Pocket Gopher Bait, Gopher Getter, Gopher-Rodent Killer, others	Rodenticide	Dry baits, pellets and powder formulations, see label for specifics	All uses — All uses calling for burrow builders; All uses except below ground, hand application
Sulfotepp	Dithio Insecticidal Smoke, Plantfume	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
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-SeafloZ-100, Hempel's, XL 48	Biocide	Solution, ready to use	Antifouling paint
Tri-isopropranolamine	Toram 101	Herbicide	Emulsifiable concentrate	All uses
Triphenyltin Hydroxide*	Super Tin, Du-Ter, Brestan H, Photon, ProTex, Agri Tin, Enable WSP/Agritin	Fungicide	All formulations	All uses
Zinc phosphide*	Ridall-Zinc Rodent Field/Ag Bait, ZP Tracking Powder, ZP Rodent Bait, Orchard Mouse Bait, Mous-Con, others	Rodenticide	All dry formulations 60% and greater, all bait formulations, all dry formulations 10% and greater for domestic uses	All uses — non-domestic outdoor uses (other than 1-2% formulation in/around buildings); domestic uses

## Active Ingredients of Restricted Use Pesticides with Products Listed by EPA as Cancelled

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 dioxide	Makr carbon dioxide	Fumigant
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
Chlorothalonil	Dacobre	Fungicide
Copper oxychloride	Dacobre DG	Fungicide, bactericide
Creosote	BL Coal tar creosote (non pressure)	Wood preservative
Cupric oxide	Chapman CCA-50	Fungicide
Cycloheximide	Acti-Aid	Fumigant, insecticide
DBCP	Nematocide EM or Solution	Fumigant
Demeton	Systox 2, Systox 6, Demox, Stemite	Insecticide
Diallate	Avadex	Herbicide
Diphacinone*	Gold Crest Tracking Powder	Rodenticide
Dodemorph	Milban	Fungicide
E-mevinphos	Duraphos, Phosdrin	Insecticide
EPN	EPN, Barricade, Powertox, MEPN, Budmor, Raider, Veto, others	Insecticide
Ethylene dibromide	TRI-X Garment Fumigant, Infuco Dibrome	Fumigant
Fensulfothion	Dasanit, BIG-D Granules	Insecticide
Flucythrinate	Pay Off, AASTAR	Insecticide
Fluoroacetamide	Fluoracetamide/1080	Rodenticide
Fluvalinate	Mavrik, Spur	Insecticide
Fonofos	Dyfonate	Insecticide
Hydrocyanic acid	HCN	Fumigant
Imazaquin	Ala-Scept, Mon-985 ( <i>Editor's note: Sceptor is not an RUP</i> )	Herbicide
Isazofos	Triumph 4E	Insecticide
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	Permatox 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