

EPA Restricted Use Pesticides

Fudd Graham

Coordinator - Alabama Fire Ant Management Program/Pesticide Safety Education Program

* Current copies of this list are found at the EPA Restricted Use Pesticide Web Site <http://www.epa.gov/opprd001/rup/>

| Chemical | Trade Name (Not All Listed) | Criteria |
|-------------------------|---|---|
| Acetamide | Guardsman Herbicide | Ground water |
| Acetic Acid | Shotgun herbicide | Emulsifiable Concentrate |
| Acetochlor | Harness, Surpass, Doubleplay Topnotch, others | Ground water |
| Acrolein | Magnacide H&B Aqualin | Human inhalation hazard, avian & aquatic residue effects |
| Alachlor | Lasso, Bullet, others | Oncogenic |
| Aldicarb | Temik | Highly toxic, accident history |
| Aluminum Phosphide | Gastoxin, Quik-Fume, Detia | Acute inhalation toxicity |
| Amitraz | Mitac, Taktic (insecticide, miticide) | Possible oncogenicity |
| Amitrole | Amizol | Possible oncogenicity |
| Arsenic Acid | Dessicant L-10, Hy-Yield H-10, others | Oncogenic, mutagenic, fetotoxic & reproductive effects |
| Arsenic Pentoxide | Osmose K-33, CCA Wolmanac, others | Possible oncogenic, mutagenic, fetotoxic & reproductive effects |
| Atrazine | Aatrex 4L, Atrazine, Bicep, Surpass, others (Mixtures with other herbicides) | Ground water, worker exposure |
| Avermectin | Zephyr, Agri-Mek | Toxic fish, mammals, aquatic organisms |
| Avitrol | Avitrol | Hazard to fish & non-target birds |
| Azinphosmethyl | Guthion, Ketokil No. 52, Azinphos-Methyl, others | Acute inhalation toxicity, hazard to avian, aquatic & mammalian species |
| Bendiocarb | Turcam, Turcam plus | Aquatic & avian toxicity |
| Bifenthrin | Capture, Brigade, Talstar | Aquatic & avian toxicity |
| Bis (tributyltin) oxide | Interlux Micron, Interswift Navicote 2000, BKA007, others | Aquatic toxicity |
| Carbofuran (N,I) | Furadan | Acute inhalation and avian toxicity of granular formulations |
| Chlorophacinone | Rozol Tracking Powder, | Inhalation hazard, food contamination potential |
| Chloropicrin | Timberfume, DowFume MC-33, Terr-0-Gas, Metabrom, others | Acute inhalation hazard, hazard to non-target organisms |
| Chloroxyfos | Fortress | Acute human, avian & aquatic invertebrate toxicity |
| Chlorpyrifos | Lorsban | Avian & aquatic toxicity |
| Chromic Acid | Osmose K-33, Chromic acid, others | Mutagenic, teratogenic, oncogenic & fetotoxic effects |
| Clofentezine | Apollo SC | All uses |
| Coal tar | 60/40 Creosote coal tar | Oncogenic & mutagenic effects |
| Coaltar creosote | Creosote oil, creosote solution, others | Oncogenic & mutagenic effects |
| Coumaphos | Co-Ral | Acute oral toxicity |
| Creosote Oil | Original Carbolineum, Osmoplastic SD | Possible oncogenic & mutagenic effects |
| Cube resins | NUSYN, Noxfish, Cube Powder & others | Chronic eye effects, inhalation hazard |
| Cuprous Oxide | Osmos ACC 50%, Red Seamate, others | Possible toxicity |
| Cyanazine | Bladex Cycle | Fetotoxic & teratogenic |
| Cyfluthrin | Baythroid2, Aztec, Tempo 2, Legend, Renounce | Acute human toxicity, toxic to fish & other aquatic organisms |
| Cyhalothrin | Karate C50 | Toxic to fish & other aquatic organisms |
| Cypermethrin | Ammo, Cynoff | Oncogenic, hazard to non-target organisms |
| Deltamethrin | Delta Guard, Striker, Decis | Highly toxic to aquatic organisms |
| Diazinon | Diazinon, Knox Out NL, others | Toxic to avian & aquatic organisms |
| Dichloenil | Sewer out II, Sanaform Vaporooter | Conditional |
| Dicloropropene | Brom 70/30, Telone C-35, & others | Probable human carcinogen, acutely toxic by oral and inhalation routes |
| Diclofop Methyl | Hoelon 3 EC, Brestan H47 | Oncogenic |
| Dicrotophos | Chiles' Go-Better, Mauget Inject A-Cide B | Acute dermal toxicity, residue effects on avian species |
| Diflubenzuron | Dimilin, Micromite | Hazard to wildlife |
| Dioxathion | Cooper Del-Tox Delnav | All EC concentrations greater than 30%, all solutions 3% & greater, acute dermal toxicity |

| Chemical | Trade Name | Criteria |
|--------------------------------------|---|---|
| Disulfoton | Di-syston | All emulsifiable concentrates 65% and greater, all emulsifiable concentrates and concentrate solutions 21% and greater with fensulfthion 43% and greater, all emulsifiable concentrates 32% and greater in combination with 32% fensulfthion and greater, acute dermal and inhalation toxicity |
| Eamectin Benzoate | Proclaim | Toxic to Fish |
| Endrin | Velsicol Endrin | Acute dermal toxicity, non-target organism |
| EPTC | Doubleplay selective herbicide | Emulsifiable concentrate |
| Ethion | Ethion 8 | Acute Toxicity |
| Ethoprop | Mocap, Holdem | All EC 40% and geater & all granular formulations, all fertilizer formulations, acute dermal toxicity |
| Ethyl parathion | Parathion 4, Phoskill, others | Inhalation and dermal toxicity, residue effects on mammalian, avian & aquatic organisms |
| Fenamiphos | Nemacur | All formulations 35% or greater, acute dermal toxicity, inhalation toxicity, avian acute oral toxicity |
| Fenbutatin-oxide | Vendex 50 | Highly toxic to aquatic organisms |
| Fenitrothion | Sumiton 8E | Forestry uses, potential adverse effects on aquatic & avian species |
| Fenpropathrin | Danitrol, Tame | Toxic to fish & other aquatic organisms |
| Fenthion | Baytex, Mosquitocide 700 | Acute toxicity to birds, fish and aquatic invertebrates |
| Fenvalerate | Asana XL, Fury 1.5 | Possible adverse effects on aquatic organisms |
| Fipronil | Regent, Icon | Conditional registration |
| Hydrogen cyanamide | Dormex | Corrosive to skin & eyes |
| Lambda-Cyhalothrin | Karate, Scimitar, Demand, Warrior | Toxicity to fish & aquatic invertebrates |
| Lindane | Lindane, Or-Cal Metam-S.A.U.,others | (RPAR decision) Possible oncogenic |
| Magnesium Phosphide | Phostoxin, Magnaphos, Fami-Cel Plate | Inhalation hazard |
| Methamidophos | Monitor 4 | Acute dermal toxicity, residue effects on avian species |
| Methidathion | Supracide | Residue effects on avian species |
| Methiocarb | Mesuroil 75WP | Possible hazard to avian, fish and other aquatic organisms |
| Methomyl | Lannate, Lannabait | As sole active ingredient in 1% to 2.5% bait (except 1% fly bait), all concentrated solution formulations, 90% wettable powder (not in water soluble bag), accident history, resual effects on mammalian species |
| Methyl Bromide | Dowfume MC-33, Terr-O-Gas, Pic-Brom, others | All formulations, accident history, acute toxicity |
| Methyl Isothiocyanate | Degussa Methyl isothiocyanate, Mite-Fume | Ready to use wood preservative |
| Methyl Parathion | M-Parathion (several) | All foliar applications restricted based on residue effects on mammalian & avian species, hazard to bees, acute dermal toxicity |
| Metolachlor | Drexel Trizmiet 11 | Soluble concentrate |
| Mevinphos | Phosdrin, Duraphos | All emulsifiable and liquid concentrates, 2% dusts, acute dermal toxicity and residue effects on mammalian and avian species |
| Niclosamide | Bayluscide | Acute inhalation toxicity, effects on aquatic organisms |
| Nicotine | 4-tin, Fulex | Liquid and dry formulations 14% active & greater, acute inhalation toxicity and effects on aquatic organisms |
| Nitrogen, Liquid | Liquid Nitrogen (termiticide) | Highly corrosive to skin & eyes |
| Oxamyl | Vydate | Avian toxicity, acute oral and inhalation toxicity |
| Oxydemeton Methyl | Metasystox-R, Harpoon, | Reproductive effects |
| Paraquat | Surefire, HerbiQuat, Cyclone, Gamoxone | All formulations and concentrations except pressurized spray formulations containing 0.44% paraquat bis (methyl sulfate) and 15% petroleum distillates as active ingredients, liquid fertilizer containing 0.25% paraquat dichloride and 0.03% atrazine, accident history, human toxicological data |
| Pentachlorophenol & PentaSodium Salt | Penta, Permatox, Mitrol G-ST, Pentacon | Possible oncogenic, mutagenic, reproductive and fetotoxic effects. |
| Permethrin | Pounce, Ambush, others | Highly toxic to aquatic organisms, oncogenicity |
| Phorate | Thimet, Milo bait, Holdem, Rampart, others | All granular formulations, acute oral & dermal toxicity, residue effects on mammals |
| Phosterbupirim | Aztec | Granular formulations |
| Picloram | Tordon 22 K, Grazon PC | Hazard to non-target organisms |

| <u>Chemical</u> | <u>Trade Name</u> | <u>Criteria</u> |
|-------------------------------|---|---|
| Piperonyl Butoxide | Vex, NUSYN, Scourge, others | Mixed with other restricted chemicals |
| Profenphos | Curacron 6E/8E | Corrosive to eyes |
| Pronamide | Kerb | all 50% wettable powders |
| Propanoic Acid | Silverado | Emulsifiable concentrate |
| Propetamphos | Zoecon | Emulsifiable concentrate, indoor use |
| Pyrethrins | SunGro Buggone II | Chronic eye effects |
| Resmethrin | SBP-1382, Scourge, Oblique, others | Acute fish toxicity |
| Rotenone | Noxfish, Rotenone, Prentox, others | Chronic eye and inhalation effects |
| S-Fenvalerate | Asana XL Insecticide | Adverse effects to aquatic organisms |
| Simazine | Simazine, Printrex, Simazat | Some products, ground water concern |
| Sodium cyanide | M-44 cyanide, DRC-1339 | Inhalation hazard, hazard to non-target species |
| Sodium dichromate | Osmoplastic SD, CSI 70% | Mutagenic, teratogenic, oncogenic, fetotoxic |
| Sodium fluoroacetate | Compound 1080 Livestock protection collar | Acute oral toxicity, hazard to non-target species, accident history |
| Sodium hydroxide | Angus Hot Rod | Acute toxicity hazard - inhalation, eyes, dermal |
| Sodium methyl-dithiocarbamate | Vapam, Meltham, Vaporooter, Sodcure | Dermal toxicity and teratogenicity |
| Starlicide | Compound DRC-1339, Gull Toxicant | Hazard to non-target species |
| Strychnine | Gopher Getter, Cooke Quick, others | All dry bait, pellet and powder formulations, acute oral toxicity, hazard to non-target species |
| Sulfotepp | Dithio Insecticidal Smoke | Sprays and smoke generator, inhalation hazard |
| Sulfuric Acid | Sulfuric Acid, others | Extremely corrosive, acute toxicity |
| Sulfuryl Fluoride | Termafume, Vikane | Acute inhalation hazard |
| Sulprofos | Bolstar 6 | Wildlife hazard |
| Tefluthrin | Force | Environmental concern |
| Terbufos | Counter | All formulations with active ingredient 15% or greater, acute oral and dermal toxicity, avian residue effects |
| TFM | TFM Bar, Sea lamprey larvacide | Requires specialized training, equipment and clothing |
| Tralomethrin | Scout, Striker | Toxic to aquatic organisms |
| Tributyltin Fluoride | Polyflo Anti-Fouling Paint, others | Acute toxicity to aquatic organisms, including shellfish |
| Tributyltin Methacrylate | AmerCoat 698, Interswift, others | Acute toxicity to aquatic organisms, including shellfish |
| Trisopropranolamine | Toram 101 | Hazard to non-target plants |
| Triphenyltin Hydroxide | Duter, Supertin 4L, Pro-Tex & others | Possible mutagenic effects |
| Zinc Phosphide | Bonide, Orchard Mouse Bait, Mouse-Con, others | All bait formulations, hazard to non-target species, acute oral & inhalation hazard |

Alabama Restricted Use Pesticides
Restricted Use Pesticides Beginning June 2005

| Chemical | Trade Name | Criteria |
|-----------------|------------------------|---|
| Clomazone | Command Herbicide | All formulations |
| Picloram | Tordon and Grazon P+ D | All formulations, hazard to non-target organisms |
| Strychnine | | All formulations, acute oral toxicity, hazard to non-target species |

Chemicals or Restricted List That All Registered Labels Have Been Canceled

Mevinphos - Phosdrin
Acrylonitrile - Acritet 34-66
Allyl Alcohol - Hopkin Allyl Alcohol
Alpha - Chlorohydrin-Epibloe
Brodifacoum - Talow G
Butylate - Sutazine
Calcium Chloride - Caddy
(Cyanide A-Drest)
Carbon Dioxide - Makr Carbon Dioxide
Carbon Tetrachloride - Dowfume 75 Vulcan Formula 72
Chlordane
Chlordimeform - Galcron 4EC/SP, Fundal SP/4EC
Chlorfenvinphos - Coopona Poultry Premise Carvicide
Chlorobenzilate - Chlorobenzilate Acaraben 94T
Creosote - Coal Tar Creosote (non-pressure application)
Cupricoxide - Chapman CCA-50
Cycloheximide - Acti-Aid
DBCP - Nematocide 12.1
Demeton - Systox2, Demox6, Systox 6
Diallate - Avadex Selective herbicide
Diphacinone - Gold Crest Promar Tracking Powder
Dodemorph - Miban
E-Mevinphos - Durham Duraphos EM-4, Phosdrin 400
EPN-EPN (many labels)
Ethylene DiBromide - Ethylene dibromide
Fensulfothion - Dasanit
Flucythrinate - Pay-off
Fluoroacetamide - Fluoroacetamide/1080
Fluvalinate - Mavrik 2E
Fonofos-Dyfonate (several labels)
Hydrocyamic Aid - Fumico
Imazaquin - Mon-9850 Herbicide
Isazofos - Triumph 4E
Isofenphos - Amaze6, Pryfon6
Metolachlor - Bicep Lite Herbicide
Phosacetim - Gophacide, Gopher-Trol
Phosalone - Zolone EC/WP
Phosphamidon - Phosphamidon (several labels)
Potassium Pentachlorophenate - Permatox 182 Chapman Permatox 180
Sodium Arsenate - Osmosalts Sodium Arsenate
Sodium Pyroarsenate - Wolman Salt CCA-Type B
Tepp-Miller Kilmite-40
Tergitol - Compound PA-14
Toxaphene - (Many labels)
Trifluralin - Canon Herbicide