

RESTRICTED-USE PESTICIDES

NORTH DAKOTA
STATE DEPOSITORY

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STATE UNIVERSITY

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The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) of 1947, as amended in 1972, provides for the classification of all pesticides as **general-use** or **restricted-use** pesticides. Amended FIFRA also provides for the **certification** of individuals using restricted-use pesticides.

Restricted-use pesticides are those that may cause adverse effects to the environment or the applicator unless applied by competent users who have shown ability to use these products safely and effectively. General-use pesticides are those which will not ordinarily cause unreasonable adverse effects to the user or on the environment when used according to label instructions.

Pesticides are determined as restricted use by the United States Environmental Protection Agency through (a) classification by regulation, (b) routine registration process, or (c) administrative order. Restricted-use pesticides may be used only by certified pesticide applicators/dealers or competent persons under the direct supervision of a certified pesticide applicator.

A North Dakota farmer interested in becoming a **certified private pesticide applicator** must attend an approved certification training program conducted by his local county extension agent. For additional

information, contact your local county extension office.

An individual interested in becoming a **certified commercial pesticide applicator or dealer** must pass written examinations at training programs conducted annually by the North Dakota State University Extension Service. Re-certification of commercial applicators and dealers is required every three years and private applicators must be re-certified every five years. For additional information, contact the NDSU Extension Service at (701) 237-7180.

Pesticides listed on the following pages have been classified as restricted-use pesticides as of April, 1987.

(Note: In addition to EPA-designated restricted-use pesticides, there are many products that manufacturers have intended to be limited in distribution. These products frequently carry a label statement such as "for commercial applicators only" and are not intended for use by the general public. This pamphlet only lists EPA-designated restricted-use pesticides.)

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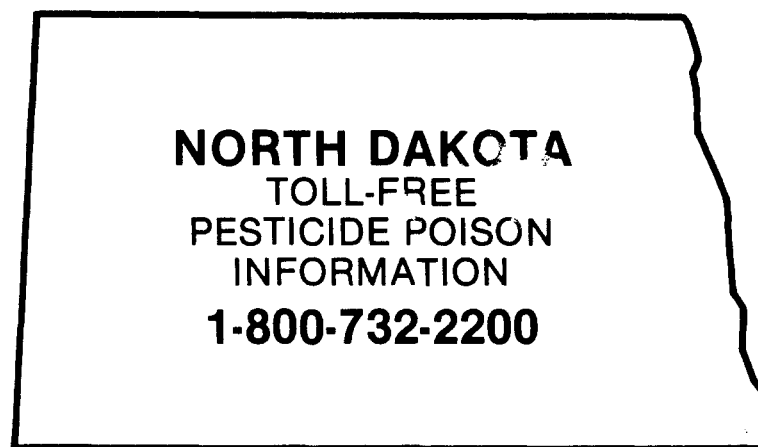
North Dakota State University, Fargo, ND 58105

LIST OF RESTRICTED PESTICIDES ON THE FEDERAL REGISTER
REVISED APRIL 1987
NORTH DAKOTA

COMMON NAME	TRADE NAME	TYPE	FORMULATIONS RESTRICTED
(examples)			
FUMIGANTS			
Aluminum Phosphide	Phostek Phostoxin Detia Tablets and Pellets Fumitoxin	Fumigant	Pellets and tablets.
Chloropicrin	Larvacide Picfume Acquinite	Fumigant	All formulations greater than 2%. All formulations for rodent control.
Magnesium Phosphide	Degesch-Magtox Degesch Fumi-strip Degesch Fumi-cel	Fumigant	All uses except 2% or less.
Methyl Bromide	(many)	Fumigant	All formulations.
Nicotine	alkaloid	Fumigant Insecticide	Liquid & dry formulations of 14% & greater for indoor use. All formulations for use on cranberries.
FUNGICIDES			
Cycloheximide	Acidione	Fungicide	All formulations for citrus & turf.
Dodemorph Acetate	Milban	Fungicide	39% emulsifiable concentrate.
Triphenyltin Hydroxide	(many)	Fungicide	All formulations.
INSECTICIDES			
Aldicarb	Temik	Insecticide Nematicide	10% or greater.
Azinphos Methyl	Guthion	Insecticide	All formulations except 50% wettable powder.
Carbofuran	Furadan 15G Furadan 75 WP Furadan 4F	Insecticide	All granules 10% and greater. All concentrate suspensions & wettable powders of 40% & greater.
Chlordimeform	Galecron & Fundal	Insecticide	All formulations.
Chlorobenzilate	Acaraben	Insecticide Miticide	Use on citrus.
Chlorpyrifos	*(note)	Insecticide	*Note: Most formulations of chlorpyrifos do not have a restricted use classification, Killmaster II being the only one.
Demeton	Systox	Insecticide	All formulations.
Dicrotophos	Bidrin Carbicron	Insecticide	All liquid formulations of 8% & greater.
Dioxathion	Delnav Zoecon Deltic	Insecticide	All concentrated solutions or emulsifiable concentrates greater than 30%. All solutions greater than 3% for domestic use.
Disulfoton	Disyston	Insecticide Miticide	All emulsifiable concentrates 65% & greater. All emulsifiable concentrates and concentrated solutions 21% & greater, when mixed w/fensulfothion of 43% & greater. All emulsifiable concentrates 32% & greater mixed with 32% fensulfothion or greater. Granular formulations 10% & greater for indoor use (greenhouse) and field use. Non-aqueous solutions 95% & greater for commercial seed treatment.

COMMON NAME	TRADE NAME	TYPE	FORMULATIONS RESTRICTED
(INSECTICIDES CONTINUED)			
Endrin	Endrin	Insecticide	All formulations.
Ethoprop	Mocap	Insecticide	Granules of 10% & greater.
Ethyl Parathion	Parathion	Insecticide	All formulations.
Fensulfothion	Dasanit	Insecticide	All concentrated solutions 63% & greater. Emulsifiable concentrates & concentrated solutions of 43% & greater w/disulfoton of 21% & greater. All emulsifiable concentrates 32% & greater w/disulfoton of 32% or greater. Granular of 10% & greater used indoors.
Fenvalerate	Pydrin	Insecticide	All formulations.
Fonofos	Dyfonate	Insecticide	All granules 10% & greater. All emulsifiable concentrates 44% & greater.
Flucythrinate	Pay-Off	Insecticide	Only one product restricted.
Heptachlor	Heptachlor	Insecticide	All formulations.
Lindane	(many)	Insecticide	All formulations w/some exceptions, including seed treatment.
Methamidophos	Monitor Tamaron	Insecticide	Liquid formulations 40% or greater & dust formulations of 2.5% & greater.
Methidathion	Supracide Ultracide	Insecticide Miticide	All formulations for nursery stock, safflower & sunflower.
Methomyl	Lannate Nudrin	Insecticide	All formulations.
Methyl Parathion	(many)	Insecticide	All formulations.
Monocrotophos	Azodrin	Insecticide	Liquid formulations 19% & greater.
Nicotine	Alkaloid	Insecticide	Liquid & dry formulations of 14% & greater for indoor use.
		Fumigant	All formulations for use on cranberries.
Permethrin	Ambush/Pounce	Insecticide	All formulations.
Phorate	Thimet	Insecticide	All granules of 15% & greater. All liquid formulations of 65% or greater.
Phosphamidon	Dimecron	Insecticide	All liquid formulations of 75% & greater. All dusts of 1.5% & greater.
Propetamphos	Safrotrin	Insecticide	All EC formulations.
Terbufos	Counter	Insecticide	Granules 15% & greater.
Toxaphene	(many)	Insecticide	All formulations.
Tralomethrin	Scout	Insecticide	All formulations.
HERBICIDES			
Aminotriazole	Amitrol-T & others	Herbicide	All formulations.
Cyanazine	Bladex 4L Bladex 15G Bladex 80W	Herbicide	All formulations.
Diallate	Avadex	Herbicide	All formulations.
Diclofop Methyl	Hoelon One Shot	Herbicide	All formulations.
Paraquat	Paraquat	Herbicide	All formulations.
Picloram	Tordon	Herbicide	All formulations except Tordon 101 R.
Pronamide	Kerb	Herbicide	Only products not in water soluble bags are restricted.
Simazine	(many)	Herbicide	All formulations, check label.
Sulfuric Acid	Sulfuric Acid	Herbicide	(For potato dessication.)

COMMON NAME	TRADE NAME	TYPE	FORMULATIONS RESTRICTED
RODENTICIDES			
Sodium fluoroacetate	Compound 1080	Rodents & Predators	All formulations.
Strychnine	(many)	Rodenticide	All formulations.
Zinc phosphide	Gopha-Rid Kilrat Mous-Con & others	Rodenticide	All formulations.
WOOD PRESERVATIVES			
Creosote	(many)	Wood Preservative	All formulations.
Pentachlorophenol	(many)	Wood Preservative	All formulations.
Chromated Arsenicals	(many)	Wood Preservative	All wood preservative uses except commercial construction brush on.



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