

ONTARIO GUIDELINES FOR CLASSIFICATION OF PESTICIDES PRODUCTS

A publication of the
Ontario Pesticides Advisory Committee

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1 INTRODUCTION

Ontario's **Pesticides Act**, administered by the Ministry of the Environment, prohibits the sale and use of a pesticide product unless it is registered under the federal **Pest Control Products Act** and classified in one of six schedules; or is exempt from classification.

Pesticide products are classified into six schedules in on the basis of their toxicity, environmental or health hazard, persistence of the active ingredient or its metabolites, concentration, usage, federal class and registration status. This classification system provides the basis for regulating the distribution, availability and use of pesticide products in Ontario.

The procedure followed in classifying new pesticide products is as follows:

1. Registrants are required to provide the Ontario Pesticides Advisory Committee with a completed and signed application form for classification, the federal certificate of registration, approved label and supporting scientific/technical information.

All applications for classification must be submitted to the Chair, Ontario Pesticides Advisory Committee, Ministry of the Environment.

2. Complete applications are considered by the Committee at its monthly meetings. Notice of newly classified pesticide products will be posted on our Website: www.opac.gov.on.ca. As soon as the classification is posted, a pesticide product may be legally sold, used, stored, displayed or transported provided it is treated as being in the schedule specified in the posted notice.

Normally, the whole process from receipt of the application to the posting of the classified product is completed within 3 to 4 weeks.

3. A product which has been placed in a schedule to Regulation 914 retains this classification until changed or revoked.

Where a classified product is transferred (viz change in registrant or agent), renamed, granted expanded registered uses, or has otherwise been amended, contact the Ontario Pesticides Advisory Committee regarding procedure to have these changes recorded. This may also apply to packaging and formulation changes.

4. New, federally registered active ingredients must be posted for 30 days on the Environmental Bill of Rights Registry (EBR) to allow for public comment.

2 SOURCES OF INFORMATION ON THE SCHEDULE OF A PESTICIDE

For information concerning pesticides and their classification or use, please contact:

Ontario Pesticides Advisory Committee (OPAC)
Ministry of the Environment
2300 Yonge St., Suite 1203
Toronto, Ontario M4P 1E4

Tel: 416-314-9235

E-Mail: mewettdo@oeb.gov.on.ca

3 CLASSIFICATION CRITERIA FOR FEDERALLY REGISTERED PRODUCTS

A pesticide product cannot be classified in Ontario without being federally registered. Proof of registration is the certificate of registration.

Under the Pest Control Products Act, a product may be identified on the front panel of the approved label as Domestic, Industrial, Agricultural, Manufacturing Concentrate, etc; these are federal classes. The Pesticides Advisory Committee will consider the federal class of the product in its review of the submission for classification but there is no direct correlation between the federal class of a product and the provincial schedules. The Pesticides Act allows Ontario to be more restrictive than the federal government, but not less restrictive.

4 CLASSIFICATION CRITERIA FOR PRODUCTS CLASSIFIED "RESTRICTED" UNDER THE PEST CONTROL PRODUCTS ACT

Where a pesticide is submitted for classification under the Pesticides Act, and contains an active ingredient or a mixture of active ingredients acceptable under Schedule 3 or 6 but carries a federal label exclusively "Restricted" under The PCP Act, that product normally will be classified in a schedule no less restrictive than Schedule 2.

5 CLASSIFICATION CRITERIA FOR PRODUCTS GRANTED TEMPORARY REGISTRATION UNDER THE PCP ACT

Where a product is submitted for classification under the Pesticides Act, and the end use formulation and/or the technical active ingredient have a federal registration that is temporary, that product will be normally classified in a schedule no less restrictive than Schedule 2. Where the information required by the federal authorities is exclusively efficacy, a more lenient schedule may be considered.

6 EXEMPTIONS FROM CLASSIFICATION UNDER THE PESTICIDES ACT

Section 129(1) of the Regulations exempts from Ontario classification mechanical devices that do not utilize a scheduled pesticide or other chemical.

Section 129(2) of the Regulations exempts from Ontario classification some federally registered pesticide products which are used solely in the extermination of microorganisms. The Pesticides Advisory Committee may consider whether a product of this type should be classified. In the event a registrant is unsure a product is exempt, application for classification should be filed.

The requirement for classification as set out in the Regulations applies to pesticides used in exterminations and not to pesticides used for other purposes, such as manufacturing processes. In addition the pesticide must first be registered under the federal Pest Control Product Act; therefore some items containing pesticides which are not considered to be pesticides themselves such as paints, some soaps, wallpaper adhesives, etc are not subject to classification.

7 REVIEW OF PREVIOUSLY CLASSIFIED PESTICIDE PRODUCTS

Technical active ingredients and formulated products are reviewed from time to time as additional scientific and technical information become available. During such reviews manufacturers may be requested to provide additional information on a technical active ingredient or formulated product. Reclassification of formulated products to more restrictive or less restrictive schedules may result, or they may remain in their original schedules. Where a Registrant desires a product review for the purpose of reclassification an application for classification must be provided with an explanation under Item 24 on the

classification instruction sheet that this product is already scheduled but reconsideration is requested. Pertinent support documentation should accompany the application.

8 REMOVAL FROM CLASSIFICATION

Maintenance of a product in an Ontario schedule for legal sale and use, is related to the federal registration status or provincial concerns. Health Canada may remove a product from registration through cancellation, suspension, discontinuation and non-eligibility for renewal at the next renewal period (every 5 years). In response to such a federal action, or on the basis of provincial concerns, the Ontario Pesticides Advisory Committee may take action to remove the product from a schedule. OPAC may also ask the registrant to recall or request disposal of stock at the wholesale and retail levels or maintain a product in a schedule for a period of time after federal action to allow the retail and consumer supplies to become exhausted (provided federal action permits).

Where Ontario proposes to declassify a product in such circumstances, registrants are notified and provided an opportunity to comment within a 2-3 week period. Where the registrant has been alerted that declassification is proposed and plans to reinstate registration at the federal level, Ontario will remove the product from the schedule until the federal requirements are satisfied, and an application for re-classification is processed.

9 CLASSIFICATION

The guidelines for classification of products are summarized in Table 1 and discussed in more detail in the following sections.

TABLE 1 CURRENT CRITERIA FOR ONTARIO CLASSIFICATION OF PESTICIDES

Schedule	Pesticide Category	Criteria for placing in schedule	Persons who may use the pesticide
1	Restricted	Very toxic ($LD_{50} \leq 50$ mg/kg, very persistent in the environment (soil $T_{1/2} \geq 6$ months or highly mobile in the environment [Note a])	Licensed applicator or certified agriculturist under permit approval
5	Agricultural	Very toxic ($LD_{50} \leq 50$ mg/kg), or very persistent in the environment (soil $T_{1/2} \geq 6$ months) or highly mobile in the environment. No less toxic or less persistent alternative available.	Licensed applicator under permit approval or certified agriculturist with certificate
2	Pest control industry and agriculture	Toxic (LD_{50} between 50 and 500 mg/kg), persistent in the environment (soil $T_{1/2}$ between 1 and 6 months) or moderately mobile in the environment	Licensed applicator or certified agriculturist
3	Consumer, pest control industry and agriculture	Moderately toxic (LD_{50} between 500 and 5000 mg/kg) or moderately persistent in the environment (soil $T_{1/2} < 1$ month). Not mobile in the environment	Homeowner, licensed applicator and certified agriculturist
4	Unrestricted	Low toxicity ($LD_{50} > 5000$ mg/kg) and non-persistent in the environment (soil $T_{1/2} < 2$ weeks). Not mobile in the environment and in containers < 1 kg or 1 L (must be domestic)	Homeowner, licensed applicator and certified agriculturist
6	Unrestricted institutional package	Low toxicity ($LD_{50} > 5000$ mg/kg) and non-persistent in the environment (soil $T_{1/2} < 2$ weeks). Not mobile in the environment but in containers > 1 L or 1 kg	Homeowner, licensed applicator and certified agriculturist
<p>Note a LD_{50} by oral route in most sensitive mammal, biological $T_{1/2}$ in soil under normal use conditions. Other routes of toxicity and environmental movement also taken into consideration.</p>			

10 SCHEDULES

10.1 SCHEDULE 1

Pesticides * in this schedule may only be used under the authority of a licence certificate and permit unless exempt. Sale of Schedule 1 pesticides is allowed only through licensed general vendors. A record must be kept of each sale.

Schedule 1 includes: Pesticides that pose a serious hazard to human health and/or the environment. For example:-

- a) pesticides that are persistent and/or give rise to persistent metabolites that produce undesirable side effects on humans or other non target organisms either by acute or chronic toxicity.
- b) pesticides exhibiting acute oral LD₅₀ values for formulated product of less than 50 mg/kg body weight.
- c) pesticides exhibiting acute dermal LD₅₀ values for formulated product of less than 100 mg/kg body weight.
- d) pesticides which through their mode of action may inflict unnecessary suffering to pest vertebrate animals.

* The term pesticides includes technical active ingredients, manufacturing concentrates and end use formulations.

10.2 SCHEDULE 2

Pesticides in this schedule are restricted to use by certified agriculturists, licensed exterminators and registered custom sprayers. Sales are permitted through licensed general vendors. A record must be kept for each sale.

Schedule 2 includes: Pesticides that pose a hazard to human health and/or the environment. For example:-

- a) pesticides that are moderately persistent in the environment (biologically active for greater than 1 season) or have a potential to move from the site of application either through leaching or volatilization.

- b) pesticides exhibiting acute oral LD₅₀ values for formulated product of greater than 50 mg/kg; but less than 500 mg/kg body weight.
- c) pesticides exhibiting acute dermal LD₅₀ values for formulated product of less than 1000 mg/kg body weight.
- d) pesticides that are registered for direct application to forests, and/or aquatic habitats.

10.3 SCHEDULE 3

Pesticides in this schedule are available to agriculturists, licensed exterminators, registered custom sprayers and the general public in accordance with allowed uses described on the product labels. Sales are permitted through licensed general or limited vendors. Sales records are not required.

Schedule 3 includes: Pesticides which are minimally hazardous to human health and/or the environment if used according to recommended procedure. Pesticides in Schedule 3 do not pose a problem when containers are disposed of in municipal garbage. Products having an Agricultural, Industrial, or Domestic federal classification may be placed in this schedule. For example:-

- a) organic pesticides that are short-lived and do not produce hazardous metabolites.
- b) those inorganic pesticides that present a minimal environmental hazard.
- c) pesticides exhibiting acute oral LD₅₀ values for formulated product of greater than 500 mg/kg; but less than 5000 mg/kg body weight.
- d) pesticides exhibiting acute dermal LD₅₀ values for formulated product of less than 10,000 mg/kg body weight.

10.4 SCHEDULE 4

Pesticides in this schedule are those that can safely be handled by any type of retail outlet. No vendor licence is required for sale at the retail level.

Schedule 4 includes: Pesticides that are relatively innocuous to human health and/or the environment. Pesticides in Schedule 4 must carry a federal Domestic class. The maximum package content must not exceed 1 kilogram (weight) or 1 litre (volume).

All containers must be inspected and approved by the Pesticides Advisory Committee. (See packaging guidelines, Table 4). For example:-

- a) pesticides that are formulated in very low concentrations and exhibit acute oral LD₅₀ values for formulated product of greater than 5000 mg/kg body weight, and acute dermal LD₅₀ values of greater than 10,000 mg/kg body weight.

10.5 SCHEDULE 5

Pesticides in this schedule are limited to agricultural use, and are restricted to use by agriculturists, appropriately licensed land exterminators, or registered custom sprayers. Sales are permitted only through licensed general vendors. A record must be kept of each sale.

Schedule 5 includes: Pesticides that pose a serious hazard to human health and/or the environment.

Products in Schedule 5 have federal classes of Commercial, Agricultural or Restricted, and would normally be scheduled in Schedule 1, but for the lack of effective and less hazardous alternatives. For example:-

- a) pesticide exhibiting acute oral LD₅₀ values for formulated product of less than 50 mg/kg body weight.
- b) pesticides exhibiting acute dermal LD₅₀ values for formulated product of less than 100 mg/kg body weight.
- c) formulated products that have high inhalation toxicities at normal temperatures.

10.6 SCHEDULE 6

Pesticides in this schedule are of similar formulation (same actives, same concentrations) to those in Schedule 4, but are sold in containers larger than 1 kilogram in weight or 1 litre in volume. Sale of Schedule 6 pesticides may be made by holders of licensed general and limited vendors. Sales records are not required.

Schedule 6 includes: Pesticides that are relatively innocuous to human health and/or the environment and carry federally approved Agricultural, Industrial, Commercial or Domestic labels.

Schedule 6 pesticides include products packaged in sizes greater than 1 kilogram (weight) or 1 litre (volume) or do not meet the Schedule 4 container packaging guidelines.

11 APPLICATIONS FOR CLASSIFICATION OF NEW PESTICIDE PRODUCTS

All applications for classification must be submitted to the:

**Chair
Ontario Pesticides Advisory Committee
Ministry of the Environment
2300 Yonge St., Suite 1203
Toronto, ON M4P 1E4**

Please note:

The Application form, including instructions for completion, is available in electronic format, please send your request by E-mail to: bradshmi@oeb.gov.on.ca.

If any of the information required to complete the application form is not available, the applicant should contact the Ontario Pesticides Advisory Committee.

12 PUBLICATIONS

The following publications are available either on our Website www.opac.gov.on.ca or in hard copy if desired:

1. Ontario Guidelines for Classification of Pesticide Products
2. Compendium of Scheduled Pesticides

TABLE 2. SCIENTIFIC AND/OR TECHNICAL INFORMATION REQUIRED FOR A NEW TECHNICAL ACTIVE INGREDIENT TO SUPPORT CLASSIFICATION OF THE FORMULATED PRODUCT

Please provide three copies of the following:

1. Name and address of manufacturer.
2. Name and address of registrant (if different from above).
3. Name and address of Canadian Agent (if applicable).
4. Copy of the Data Base Index.
5. Material Safety Data Sheet and/or Technical Data Sheet.
6. Chemistry (Pure and Technical Active Ingredient).
 - a) physical and chemical properties and chemical structure.
 - b) copies of analytical methods suitable for measuring parent and relevant metabolites that might occur in agricultural and environmental substrates.
7. Summaries of the following banks of studies on the technical active ingredient.
 - a) Toxicology (Acute, short-term, long-term and special). These data should include the L_{50} values, units, animal species tested, identity of the test substance and the slope of the dose response curve from which it is derived.
 - b) Metabolism (Mammals, plants, pharmacokinetics, and other studies).
 - c) Environmental Chemistry (Physicochemical properties of technical active, including photodegradation, hydrolysis; Octanol/water partition co-efficient. Aerobic and Anaerobic degradation; Soil Metabolism; Terrestrial and aquatic dissipation and accumulation; Storage, disposal and decontamination.)
 - d) Environmental Toxicology (Birds and mammals; aquatic organisms; non-target invertebrates).

8. Residues:
 - i) Maximum residue limits (MRLs) as determined by Health Canada and units for each food crop.
 - ii) Analytical method used for the above.

9. Certificate of registration of the technical active.

10. The Committee reserves the right to request additional information.

Please Note: If summaries of the above studies are not available, the applicant should contact the Ontario Pesticides Advisory Committee.

11. Any newly registered active ingredient must be posted on the Environmental Bill of Rights registry for 30 days to allow for public comment, during which time the product may be reviewed for classification by OPAC and held until the comment period is completed.

TABLE 3. INFORMATION REQUIRED TO CLASSIFY FORMULATED OR CUSTOM FERTILIZER - PESTICIDE PRODUCTS

The following information is to be provided on the application for classification, used normally for formulated pesticide products.

1. Applicant's name and address.
2. Registrant's name and address (if different from above).
3. Canadian Agent's name and address (if applicable).
4. Five typewritten copies of federally approved label. (Please do not send fertilizer bags.)
5. Federal Fertilizer Act registration number and/or Pest Control Product Registration number(s) and trade names of pesticide product(s) used in the formulated mix and Ontario Schedule of each pesticide product in the mix.
6. Guarantee of the ingredients in the fertilizer/pesticide.
7. Type and size of containers.
8. Confirmation that this fertilizer/pesticide product conforms with the federal **Fertilizer Compendium**.
9. The Committee reserves the right to request additional information on the active ingredient/s or other constituents in the product.

13 CRITERIA FOR CLASSIFYING FERTILIZERS CONTAINING PESTICIDES

13.1 FERTILIZERS CONTAINING ONE PESTICIDE ACTIVE INGREDIENT

Fertilizers containing only one pesticide active ingredient will be classified according to the classification for that active ingredient.

13.2 FERTILIZERS CONTAINING MORE THAN ONE PESTICIDE ACTIVE INGREDIENT

- a) Except as described in (b) below, fertilizers containing two or more pesticide active ingredients will not be accepted for regular classification and will be classified under Schedule 1.
- b) Fertilizers containing two or more herbicides that are complementary for the control of a similar group of weeds will be classified according to the total percentage of all active ingredients present, e.g. 2,4-D, mecoprop, dicamba for broad leaf weed control in turf grass.

TABLE 4. PACKAGING CRITERIA FOR SCHEDULE 4 PESTICIDE PRODUCTS ONLY

1. INITIAL QUALIFICATION
All products must carry a federally approved "Domestic" label, and must meet Schedule 4 active ingredient classification guidelines.
2. MAXIMUM CONTENT
Maximum package content must NOT EXCEED 1 kilogram by weight or 1 litre by volume. In order to be approved in Sch 4 containers MUST BE SUBMITTED to the Ontario Pesticides Advisory Committee for inspection and approval.
3. SHAKER OR SIFTER CAN DISPENSERS
All shaker-can dispensers used in packaging pesticide products must have an approved device for reclosure.
4. PRESSURIZED DISPENSERS
Every pressurized spray dispenser used in packaging pesticide products must have a cap, locking device or seal, so as to prevent accidental activation during transit, storage and display.
5. FOLDING PAPER BOARD CARTONS
Paper-board cartons may be approved when the product, if formulated as a granule, impregnated fabric, pellet, powder, particulate (e.g. rodent bait), solid, slow-release generator, tablet or wettable powder, is packaged in an acceptable inner liner (e.g. plastic or foil liner).
6. PLASTIC BAGS OR POUCHES
Plastic bags or pouches used to package rodent baits must be sufficiently strong to prevent accidental spillage during transit, storage and display, and must be packaged in an outer display carton. Individual bags or pouches, or those which, in the opinion of the Committee, could be easily torn, will not be approved.
7. GLASS BOTTLES
Glass bottles shall not be used for packaging Schedule 4 pesticides if, in the opinion of the Committee, such containers can be easily shattered or broken during transit, storage and display.
8. PAPER BAGS
No paper bags will be allowed in Schedule 4.

9. OTHER LIMITATIONS

Where, in the opinion of the Committee, a pesticide container can be mistaken for a food or toy container, the product will not be permitted in Schedule 4.

10. APPROVAL OF NON-CONFORMING CONTAINERS

The Committee may approve non-conforming containers that, in its opinion, warrant special consideration due to the type of product or method of application of that product.

11. TRANSFER TO SCHEDULE 6

Domestic products containing only Schedule 4 active ingredients but not meeting the packaging requirements, will be classified under Schedule 6.

14 APPENDIX I

14.1 ALPHABETICAL LISTING OF PESTICIDE ACTIVE INGREDIENTS BY CHEMICAL NAME

PRODUCT TYPE:

HER	herbicide	ROD	rodenticide
INS	insecticide	ADJ	adjuvant
IRP	insect repellent	VPC	vertebrate pest
WPS	wood preservative	PGR	plant growth regulator
FUN	fungicide	MISC	miscellaneous

COMMON CHEMICAL NAME	CODE	TYPE
abamectin	ABM	MISC
acephate	ACP	INS
acifluorfen	ACF	HER
acrolein	ACL	HER
agrobacterium radiobacter	ABR	HER
aldicarb	ADC	INS
allethrin	ALN	IRP
d-trans allethrin	ALM	INS
d-cis, trans allethrin	ALF	INS
aluminum phosphide	ALP	ROD, INS
aminocarb	AMC	INS
4-aminopyridine	AMP	VPC
amitraz	AMZ	INS
amitrole	AMI	HER
ammonia vertebrate repellent	AOH	VPC
ammonium methyl arsonates	AMA	HER
ammonium sulphamate	AMS	HER
ammonium sulphate	ASL	ADJ
ancymidol	ANC	PGR
anilazine	DYR	FUN
arsenic pentoxide	ARP	WPS
asphalt solids	ASP	FUN
asulam	ASM	HER
atrazine	ATR	HER

COMMON CHEMICAL NAME	CODE	TYPE
azaconazole	AZN	WPS
azacosterol hydrochloride (bird chemosterilant)	AZA	VPC
azinphos-methyl	GOO	INS
bacillus thuringiensis ssp. san diego	BTC	INS
bacillus thuringiensis ssp. tenebrionis	BTT	INS
Bacillus thuringiensis ssp.Kurstaki	BTB	INS
Bacillus thuringiensis, (all serotypes) H-14	BTH	INS
barium metaborate monohydrate	BAM	INS
b-butoxy-b'-thiocyanodiethyl ether	LER	INS
benazolin	BEN	HER
bendiocarb	BDC	INS
bendiocarb approved ant trap	BDC	INS
benomyl	BML	FUN
bensulide	BET	HER
bentazon	BZN	HER
benzoic acid	BZA	ADJ
6-benzylaminopurine	BAD	PGR
bis-(tri-n-butyltin) oxide	BTO	WPS
blend of oils:lemongrass,citronella,orange,bergamot	POO	IRP
bone oil (animal repellent)	BON	VPC
boracic acid (boric acid)	BOA	INS
borax	BNS	FUN,WPS HER,INS
borax anhydrous (sodium tetraborate)	BNA	WPS
borax pentahydrate	BNP	HER
brodifacoum	BRF	ROD
bromacil	BBU	HER
bromadiolone	BRM	ROD
1-bromo-3-chloro-5, 5-dimethylhydantoin	BCD	HER
bromoxynil	BRY	HER
butoxypolypropylene glycol	BPG	IRP
butylate	SUT	HER
capsaicin (animal & fly repellent)	CAS	VPC,IRP
captan	CAP	FUN

COMMON CHEMICAL NAME	CODE	TYPE
carbaryl	CAB	INS
carbathiin	VIT	FUN
carbendazim-phosphate	MBD	FUN
carbofuran	CAF	INS
carbon dioxide	COZ	INS
cedar leaf oil	CED	VP
chinomethionat	MOR	INS,FUN
chloramben	CHA	HER
chlorfenvinphos	CFV	INS
chlorflurecol-methyl	CFM	PGR
chlormequat	CCC	PGR
3-chloro-1, 2 propanediol	CPD	ROD
chloroneb	CNB	FUN
chlorophacinone	CHP	ROD
4-chlorophenoxy acetic acid	CPA	MIS
chloropicrin	CPN	ROD,HER INS,WPS
chlorothalonil	TET	FUN
chlorpropham	CIP	HER
chlorpyrifos	DUB	INS
chlorsulfuron	CSL	HER
chlorthal dimethyl	CHL	HER
cholecalciferol	CGO	ROD
chromic acid	CRO	WPS
clethodim	CLE	HER
clofentezine	CFZ	INS
clomazone	CNQ	HER
clopyralid	DPI	HER
coal tar acids	COA	INS,WPS
coconut diethanolamide	COC	ADJ
copper as cupric hydroxide	CUZ	FUN
copper as tribasic copper sulphate	CUB	FUN
copper napthenate	CUN	WPS
copper oxide	CUO	WPS

COMMON CHEMICAL NAME	CODE	TYPE
copper oxychloride	CUY	FUN
copper sulphate	CUS	FUN,WPS
copper-8-quinolinolate	CUQ	WPS
coumaphos	COU	INS
creosote	CRT	WPS
m-cresol	CRG	FUN
creylic acid (or: phenolic homologues)	CRA	WPS
crotoxyphos	CIN	INS
cutrine	CUT	HER
cyanazine	BDX	HER
cycloate	ROE	HER
cycloheximide	CYX	FUN
cyhalothrin-lambda (proposed)	CYH	INS
cypermethrin	CYM	INS
cyromazine	CYZ	INS
2,4-D acids, amines and salts	DXA,DXB, DXS	HER
mixtures of 2,4-D,mecoprop(amines & salts)		HER
mixtures of 2,4-D,mecoprop(amines & salts)+dicamba		HER
dalapon	DAL	HER
daminozide	DAM	PGR
dazomet	DAZ	FUN, NEM
2,4-DB (butyl ester)	DPB	HER
deltamethrin	DBR	INS
demeton	DEM	INS
denatonium benzoate	DEB	VPC
desmedipham	BTL	HER
2,4-D H.V. esters	DXE	HER
di (phenylmercuric) dodeceny succinate	DPK	FUN
diazinon	DIA	INS
diazinon granular or dust	DIA	INS
dicamba	DIC	HER
dichlobenil	DCB	HER
dichlofluanid	DCA	WPS

COMMON CHEMICAL NAME	CODE	TYPE
dichlone	DCH	FUN
dichloran	DIK	FUN
dichlorflurecol methyl	DFM	PGR,ADJ
dichlorophen	DPH	INS
sodium salt of n-(3,4-dichlorophenyl) -n'-2 (2-sulfo-4-chlorophenoxy) -5-chlorophenyl urea	MIT	INS
dichlorprop LV esters	DIH	HER
dichlorprop HV esters	DIH	HER
dichlorvos and related actives	DVP	INS
diclofop-methyl	DPP	HER
dicofol	DCF	INS
didecyl dimethyl ammonium chloride	QAK	FUN
dienochlor	BPC	INS
difensoquat	AVG	HER
diflubenzuron	DFB	INS
dimethanamid	MEI	HER
dimethoate	DIM	INS
dimethomorph	DME	FUN
dimethyl phthalate	DMP	IRP
dimethylpolysiloxane	DMS	ADJ
dimethyl alkyl	DFA	ADJ
dinitrocresol (DNOC) sodium salt	DNC	INS, FUN
dinitrophenol	DNP	WPS
di-n-propyl isosinchomeronate	MGD	IRP
dinocap	DIN	INS
dioctyl dimethyl ammonium chloride	QDE	FUN
diphacinone	DPC	ROD
diphenamid	DIP	HER
diphenylamine	DPA	PGR,INS, FUN
diquat	DIQ	HER
disodium octaborate tetrahydrate	BOC	WPS
disulfoton	DIS	INS
dithiopyr	DIR	HER
diuron	DUR	HER

COMMON CHEMICAL NAME	CODE	TYPE
2,4-D L.V. esters	DXF,DXG	HER
dodemorph-acetate	DOM	FUN
dodine	DOD	FUN
endosulfan	ESF	INS
endothal	ENT	HER
eptam	EPT	HER
ergocalciferol	EGO	ROD
ethalfluralin	EFR	HER
ethametsulfuron-methyl	ETM	HER
1,2-ethanediol	ETA	ADJ
ethephon	ETF	PGR
ethion	ETH	INS
ethofumesate	ETS	HER
ethylene oxide	ETO	INS
etridiazole	TRB	FUN
fatty alcohols	FAA,FAB	PGR
fenaminosulf	DEX	FUN
fenbutatin oxide	FBT	INS
fenitrothion	FEM	INS
fenoxaprop ethyl	FPE	HER
fenoxaprop-p-ethyl (isomer)	FPF	HER
fenpropimorph	FDJ	HER
fensulfothion	FEL	INS
fenthion	FET	INS
fenthion (bird repellent)	FET	VPC
fenvalerate	FEV	INS
ferbam	FER	FUN
flamprop-methyl	FLA	HER
flamprop-m-methyl	FLB	HER
fluazifop-butyl	FZB	HER
fluazifop-p-butyl	FZA	HER
flucythrinate	FKR	INS
fludioxonil	FLD	FUN
flumetsulam	FLM	HER

COMMON CHEMICAL NAME	CODE	TYPE
flurecol methyl	FCM	PGR
fluvalinate	FLV	INS
folpet	FOL	FUN
fomesafen	FOF	HER
fonofos	DYF	INS
formaldehyde	FOR	FUN
formetanate hydrochloride	FOM	INS
fosamine ammonium	KRE	HER
fosetyl-Al	FAL	FUN
fumarin	FUM	ROD
gibberellic acid	GIB	PGR
glufosinate ammonium	GLG	HER
glyphosate	GPS	HER
hexazinone	VPR	HER
hydramethylnon	ADO	INS
hydrogen cyanamide	HCY	HER
hydrogen cyanide	HCN	INS, ROD
2-hydroxyethyl N-octyl sulfide	MGH	IRP
imazamox	IMZ	HER
imazethapyr	IMP	HER
imazypyr	ARS	HER
imidacloprid	IMI	INS
iodocarb	IPB	WPS
iodofenphos	IOJ	INS
iprodione	IPD	FUN
isoxaben	ISX	HER
kinoprene	KPR	IGR
lime sulphur or calcium polysulphide	SUS	FUN,INS
lindane	LIN	INS
linuron	LUN	HER
malathion	MAL	INS
maleic hydrazide	MAH	PGR
mancozeb	MCZ	FUN
maneb	MAN	FUN

COMMON CHEMICAL NAME	CODE	TYPE
MCPA amines and salts	MAB	HER
MCPA as potassium or sodium salts	MAS	HER
MCPA H.V. esters	MAE	HER
MCPA L.V. esters	MAE	HER
MCPA present as acid	MAA	HER
MCPB salts	MBS	HER
mecoprop d-isomer	MED	HER
mecoprop (d-isomer) present as acid	MEE	HER
mecoprop (d-isomer) present as potassium salt	MEA	HER
mecoprop-salts	MEC	HER
mercuric chloride	MCC	FUN
mercurous chloride	MSC	FUN
mercury as elemental, phenylmercuric salts	HGE	WPS
metalaxyl	MTA	FUN
metaldehyde	MHY	MOL
metam sodium	MTM	INS,FUN, HER
methamidophos	MOM	INS
methidathion	MED	INS
methiocarb	MHB	INS
methomyl	MML	INS
methoprene	MPR	INS
methoxychlor	MET	INS
methyl anthranilate	MAT	
methyl bromide	MBR	INS,FUN, ROD
methyldodecylbenzyl trimethyl ammonium chloride 80% and methyldodecylxylylene bis (trimethyl ammonium chloride) 20%	QAM	FUN
methyl isothiocyanate	MIS	HER, INS
methyl nonyl ketone (dog and cat repellent)	MNK	VPC
2,2'-(1-methyltrimethylenedioxy) bis - (4,methyl-1,3,2- dioxaborinane)	MGR	FUN
metiram	MTR	FUN
metobromuron	MTB	HER
metolachlor	MTL	HER

COMMON CHEMICAL NAME	CODE	TYPE
metribuzin	BAX	HER
mevinphos alpha isomer	MEV	INS
mineral oil	MOI	INS,HER, FUN
mineral oil (herbicidal or plant growth regulator)	MOH	HER,PGR
monolinuron	MOL	HER
monosodium methane arsonate	MSM	HER
monuron	MON	HER
mustard oil	MUS	VPC
myclobutanil	MYC	FUN
naled	NAL	INS
N-alkyl (C11-C15) polyethoxyethanol	APE	ADJ
N-alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	QAC	FUN
N-alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride)	QAF	FUN
N-alkyl (5% C12, 60% C14, 30% C16, 5% C18) dimethyl benzyl ammonium chloride		
naphthalene	NPH	INS,VPC
naphthaleneacetamide	NAD	PGR
napropamide	NBP	HER
naptalam	NAP	HER
naphthalene acetic acid	NAA	PGR
natural gum resins	GUM	VPC,INS
nicosamide	BAS	VPC
nicosulfuron	NIO	HER
nicotine	NIA	INS,VPC
n-octyl bicycloheptene dicarboximide	MGK	INS
nonylphenoxypolyethoxyethanol	NON	ADJ
nuclear polyhedrosis virus of red-headed pine sawfly	NUL	INS
octyl decyl dimethyl ammonium chloride	QDF	FUN
octylphenoxypolyethoxy ethanol	OPE	ADJ
octylphenoxypolyethoxy ethanol ester	OPO	ADJ
oil of citronella	CIT	IRP
oil of lavender	LAV	IRP

COMMON CHEMICAL NAME	CODE	TYPE
oil of lemon grass	OAL	VPC
oxadiazon	OXA	HER
oxamyl	OXB	INS
2,2-oxybis (4,4,6-trimethyl)-1,3,2-dioxaborinane	BIO	FUN
oxine benzoate	HQB	FUN
oxycarboxin	PTX	FUN
oxydemetron-methyl	ODM	INS
oxyfluorfen	OXR	HER
oxytetracycline hydrochloride	OXT	FUN
paclobutrazol	PAZ	PGR
paradichlorobenzene	PDB	INS, VPC
paraffin base mineral oil	MOA	ADJ
paraformaldehyde	PFH	FUN
paraquat	PAQ	HER
parathion	PTH	INS
pebulate	PEB	HER
pelargonic acid and capric acid	FAH	HER
pendimethalin	PEN	HER
pentachlorophenol	PCP	WPS
permethrin	PFL	INS
phenmedipham	PMP	HER
phenyl mercuric acetate	PMA	FUN
pheromone: grape berry moth	PGM	INS
phorate	PHR	INS
phosalone	PHS	INS
phosmet	PRT	INS
phosphate ester	POA	ADJ
picloram amines or salts	PIC	HER
picloram present as amine salts (alkanolamine salt, diethanolamine salt, or triisopropanolamine salt)	PID	HER
pindone	PIN	ROD
pine oil	POI	FUN
piperonyl butoxide	PBU	INS
pirimicarb	PIR	INS

COMMON CHEMICAL NAME	CODE	TYPE
polyacrylamide	PAY	ADJ
polyacrylic polymer	PAR	ADJ
polymerized butenes	POB	VPC
polyoxyethylene (20) sorbitan monolaurate	SOR	ADJ
polyvinyl polymer	PVP	ADJ
potassium chromate	KCR	FUN
potassium dichromate	KDC	WPS
primary alcohol ethoxylate	PAE	ADJ
prometone	PRM	HER
prometryne	PRO	HER
propamocarb	PHY	FUN
propanil	PRL	HER
propargite	OMI	INS
propetamphos	PPF	INS
propiconazole	PON	FUN
propoxur	BAY	INS
propoxur-approved ant trap	BAY	INS
propoxur-slow release animal collar	BAY	INS
propyzamide	KRB	HER
putrescent whole egg solids	EGG	VPC
pyrazon	PYZ	HER
pyrazophos	PYF	INS
pyrethrins	PYR	INS
pyrethrins (metered aerosol-commercial)	PYR	INS
pyridaben	PYD	INS
pyridate	FDR	HER
quintozene	QTZ	FUN
quizalofop-ethyl	EQP	HER
resmethrin	REZ	INS
rimsulfuron	DPY	HER
rotenone	ROT	INS
rotenone (fish toxicant)	ROT	VPC
safer's insecticidal soap	SOB	INS
sethoxydim	SOD	HER

COMMON CHEMICAL NAME	CODE	TYPE
siduron	SID	HER
silica aerogel	SIL	INS
silicon dioxide	SIO	INS
siloxylated polyether	SIX	ADJ
simazine	SMZ	HER
soap-insecticidal (includes fatty acids)	SOA	INS,VPC
sodium chlorate mixtures	SCL	HER
sodium fluoride	SFL	INS
sodium fluosilicate (or sodium silicofluoride)	SFS	INS
sodium metaborate octahydrate	SMM	HER,WPS
sodium metaborate tetrahydrate	SMT	HER
sodium pentachlorophenate	SPC	HER
sodium tetrachlorophenate	STC	WPS
streptomycin	STN	FUN
strychnine as alkaloid or sulphate	STR	VPC,ROD
sulfaquinoxaline present as sodium salt	SQS	ROD
sulfotep	SFT	INS
sulfoxide (synergist)	SFD	INS
sulphide sulphur	SUS	INS
sulphur	SUL	FUN,INS
surfactant blend	XXX	ADJ
tall oil fatty acids	TOF	ADJ
tallow fatty acid amine ethoxylate	TAF	ADJ
2-(thiocyano methlythio) benzothiazole	TCM	FUN
tebufenozide	TFZ	INS
tebuthiuron	TEB	HER
tefluthrin	TEL	INS
temephos	ABT	INS
terbacil	TER	HER
terbufos	COY	INS
tetrachlorophenol	TCP	WPS
tetrachlorvinphos	GAR	INS
tetramethrin	NEO	INS
thiabendazole	TZL	FUN

COMMON CHEMICAL NAME	CODE	TYPE
thifensulfuron methyl	MMM	HER
thiophanate-methyl	TPM	FUN
thiram	THI	FUN
thiram animal repellent	THI	VPC
N,N-diethyl-m-toluamide	DTU	IRP
tralkoxydim	TRA	HER
triadimefon	TQB	FUN
triadimenol	TLL	FUN
triasulfuron	TRS	HER
triallate	TRL	HER
tribenuron methyl	MEX	HER
trichlorfon	TRI	INS
2,4,4'-trichloro-2'-hydroxydiphenyl ether [or 5-chloro-2(2,4-dichlorophenoxy)phenol]	CDP	FUN
trichloroacetic acid	TCS	HER
trichlorobenzoic acid	TBA	HER
triclopyr	TPR	HER
trifluralin	TRF	HER
triforine	TRR	FUN
trimethylmonyl polyethoxy ethanol	TMN	ADJ
vamidotion	DSG	FUN
vernolate	VER	HER
vinclozolin	VIN	FUN
warfarin	WAR	ROD
water soluble dyes	WAT	HER
2,4-xylenol (2,4-dimethylphenol)	XAY	FUN
zinc borate	ZBT	FUN
zinc naphthenate	ZNN	WPS
zinc phosphide	ZNP	ROD
z-9-tricosene	TRN	INS
zineb	ZIN	FUN
ziram	ZIR	FUN

E. & E. O. (Errors and Omissions excepted).

**14.2 ALPHABETICAL LISTING OF PESTICIDE ACTIVE INGREDIENTS
BY CODE**

CODE	COMMON CHEMICAL NAME	TYPE
ABM	abamectin	MISC
ABR	agrobacterium radiobacter	HER
ABT	temephos	INS
ACF	acifluorfen	HER
ACL	acrolein	HER
ACP	acephate	INS
ADC	aldicarb	INS
ALF	d-cis, trans allethrin	INS
ADO	hydramethylnon	INS
ALM	d-trans allethrin	INS
ALN	allethrin	IRP
ALP	aluminum phosphide	ROD, INS
AMA	ammonium methyl arsonates	HER
AMC	aminocarb	INS
AMI	amitrole	HER
AMP	4-aminopyridine	VPC
AMS	ammonium sulphamate	HER
AMZ	amitraz	INS
ANC	ancymidol	PGR
AOH	ammonia vertebrate repellent	VPC
APE	N-alkyl (C11-C15) polyethoxyethanol	ADJ
ARS	imazypyr	HER
ARP	arsenic pentoxide	WPS
ASL	ammonium sulphate	ADJ
ASM	asulam	HER
ASP	asphalt solids	FUN
ATR	atrazine	HER
AVG	difenoquat	HER
AZA	azacosterol hydrochloride (bird chemosterilant)	VPC
AZN	azaconazole	WPS
BAD	6-benzylaminopurine	PGR
BAM	barium metaborate monohydrate	INS

CODE	COMMON CHEMICAL NAME	TYPE
BAS	niclosamide	VPC
BAX	metribuzin	HER
BAY	propoxur-approved ant trap	INS
BAY	propoxur-slow release animal collar	INS
BAY	propoxur	INS
BBU	bromacil	HER
BCD	1-bromo-3-chloro-5, 5-dimethylhydantoin	HER
BDC	bendiocarb approved ant trap	INS
BDC	bendiocarb	INS
BDX	cyanazine	HER
BEN	benazolin	HER
BET	bensulide	HER
BIO	2,2-oxybis (4,4,6-trimethyl-1,3,2-dioxaborinane	FUN
BML	benomyl	FUN
BNA	borax anhydrous (sodium tetraborate)	WPS
BNP	borax pentahydrate	HER
BNS	borax	FUN,WPS ,HER,INS
BOA	boracic acid (boric acid)	INS
BOC	disodium octaborate tetrahydrate	WPS
BON	bone oil (animal repellent)	VPC
BPC	dienochlor	INS
BPG	butoxypolypropylene glycol	IRP
BRF	brodifacoum	ROD
BRM	bromadiolone	ROD
BRY	bromoxynil	HER
BTB	Bacillus thuringiensis ssp.Kurstaki	INS
BTC	bacillus thuringiensis ssp. san diego	INS
BTH	Bacillus thuringiensis, (all serotypes) H-14	INS
BTL	desmedipham	HER
BTO	bis-(tri-n-butyltin) oxide	WPS
BTT	bacillus thuringiensis ssp. tenebrionis	INS
BZA	benzoic acid	ADJ
BZN	bentazon	HER

CODE	COMMON CHEMICAL NAME	TYPE
CAB	carbaryl	INS
CAB	carbaryl	INS
CAF	carbofuran	INS
CAP	captan	FUN
CAS	capsaicin (animal & fly repellent)	VPC,IRP
CCC	chlormequat	PGR
CFM	chlorflurecol-methyl	PGR
CFV	chlorfenvinphos	INS
CFZ	clofentezine	INS
CGO	cholecalciferol	ROD
CHA	chloramben	HER
CHL	chlorthal dimethyl	HER
CHP	chlorophacinone	ROD
CIN	crotoxyphos	INS
CIP	chlorpropham	HER
CIT	oil of citronella	IRP
CLE	clethodim	HER
CNB	chloroneb	FUN
CNQ	clomazone	HER
COA	coal tar acids	INS,WPS
COC	coconut diethanolamide	ADJ
COU	coumaphos	INS
COY	terbufos	INS
COZ	carbon dioxide	INS
CPA	4-chlorophenoxy acetic acid	MIS
CPD	3-chloro-1, 2 propanediol	ROD
CPN	chloropicrin	ROD,HER ,INS,WPS
CRA	cresylic acid (or: phenolic homologues)	WPS
CRG	m-cresol	FUN
CRO	chromic acid	WPS
CRT	creosote	WPS
CSL	chlorsulfuron	HER
CUB	copper as tribasic copper sulphate	FUN

CODE	COMMON CHEMICAL NAME	TYPE
CUN	copper naphthenate	WPS
CUO	copper oxide	WPS
CUQ	copper-8-quinolinolate	WPS
CUS	copper sulphate	FUN,WPS
CUT	cutrine	HER
CUY	copper oxychloride	FUN
CUZ	copper as cupric hydroxide	FUN
CYM	cypermethrin	INS
CYZ	cyromazine	INS
CYX	cycloheximide	FUN
DAL	dalapon	HER
DAM	daminozide	PGR
DAZ	dazomet	FUN, NEM
DBR	deltamethrin	INS
DCA	dichlofluanid	WPS
DCB	dichlobenil	HER
DCF	dicofol	INS
DCH	dichlone	FUN
DEB	denatonium benzoate	VPC
DEM	demeton	INS
DEX	fenaminosulf	FUN
DFA	dimethyl alkyl	ADJ
DFB	diflubenzuron	INS
DFM	dichlorflurecol methyl	PGR,ADJ
DIA	diazinon granular or dust	INS
DIA	diazinon	INS
DIC	dicamba	HER
DIH	dichlorprop HV esters	HER
DIH	dichlorprop LV esters	HER
DIK	dichloran	FUN
DIM	dimethoate	INS
DIN	dinocap	INS
DIP	diphenamid	HER

CODE	COMMON CHEMICAL NAME	TYPE
DIQ	diquat	HER
DIR	dithiopyr	HER
DIS	disulfoton	INS
DME	dimethomorph	FUN
DMP	dimethyl phthalate	IRP
DMS	dimethylpolysiloxane	ADJ
DNC	dinitrocresol (DNOC) sodium salt	INS, FUN
DNP	dinitrophenol	WPS
DOD	dodine	FUN
DOM	dodemorph-acetate	FUN
DPA	diphenylamine	PGR,INS, FUN
DPB	2,4-DB butyl ester	HER
DPC	diphacinone	ROD
DPH	dichlorophen	INS
DPI	clopyralid	HER
DPP	diclofop-methyl	HER
DPY	rimsulfuron	HER
DSG	vamidotion	FUN
DTU	N,N-diethyl-m-toluamide	IRP
DUB	chlorpyrifos	INS
DUR	diuron	HER
DVP	dichlorvos and related actives	INS
	mixtures of 2,4-D,mecoprop(amines & salts)	HER
	mixtures of 2,4-D,mecoprop(amines & salts)+dicamba	HER
DXA, DXB,DXS	2,4-D acids, amines and salts	HER
DXE	2,4-D H.V. esters	HER
DXF,DXG	2,4-D L.V. esters	HER
DYF	fonofos	INS
DYR	anilazine	FUN
EFR	ethalfluralin	HER
EGG	putrescent whole egg solids	VPC
EGO	ergocalciferol	ROD
ENT	endothal	HER

CODE	COMMON CHEMICAL NAME	TYPE
EPT	eptam	HER
EQP	quizalofop-ethyl	HER
ESF	endosulfan	INS
ETA	1,2-ethanediol	ADJ
ETF	ethephon	PGR
ETH	ethion	INS
ETM	ethametsulfuron-methyl	HER
ETO	ethylene oxide	INS
ETS	ethofumesate	HER
FAA,FAB	fatty alcohols	PGR
FAH	pelargonic acid and capric acid	HER
FAL	fosetyl-Al	FUN
FBT	fenbutatin oxide	INS
FCM	flurecol methyl	PGR
FDR	pyridate	HER
FEL	fensulfothion	INS
FEM	fenitrothion	INS
FER	ferbam	FUN
FET	fenthion	INS
FET	fenthion (bird repellent)	VPC
FEV	fenvalerate	INS
FKR	flucythrinate	INS
FLA	flamprop-methyl	HER
FLM	flumetsulam	HER
FLV	fluvalinate	INS
FOF	fomesafen	HER
FOL	folpet	FUN
FOM	formetanate hydrochloride	INS
FOR	formaldehyde	FUN
FPE	fenoxaprop ethyl	HER
FPF	fenoxaprop-p-ethyl (isomer)	HER
FUM	fumarin	ROD
FZA	fluazifop-p-butyl	HER
FZB	fluazifop-butyl	HER

CODE	COMMON CHEMICAL NAME	TYPE
GAR	tetrachlorvinphos	INS
GIB	gibberellic acid	PGR
GLG	glufosinate ammonium	HER
GOO	azinphos-methyl	INS
GPS	glyphosate	HER
GUM	natural gum resins	VPC,INS
HCN	hydrogen cyanide	INS, ROD
HCY	hydrogen cyanamide	HER
HGE	mercury as elemental, phenylmercuric salts	WPS
HQB	oxine benzoate	FUN
IMI	imidacloprid	INS
IMP	imazethapyr	HER
IOJ	iodofenphos	INS
IPB	iodocarb	WPS
IPD	iprodione	FUN
ISX	isoxaben	HER
KCR	potassium chromate	FUN
KDC	potassium dichromate	WPS
KPR	kinoprene	IGR
KRB	propyzamide	HER
KRE	fosamine ammonium	HER
LAV	oil of lavender	IRP
LER	b-butoxy-b'-thiocyanodiethyl ether	INS
LIN	lindane	INS
LUN	linuron	HER
MAA	MCPA present as acid	HER
MAB	MCPA amines and salts	HER
MAE	MCPA H.V. esters	HER
MAE	MCPA L.V. esters	HER
MAH	maleic hydrazide	PGR
MAL	malathion	INS
MAN	maneb	FUN
MAS	MCPA as potassium or sodium salts	HER
MAT	methyl anthranilate	

CODE	COMMON CHEMICAL NAME	TYPE
MBD	carbendazim-phosphate	FUN
MBR	methyl bromide	INS,FUN, ROD
MBS	MCPB salts	HER
MCC	mercuric chloride	FUN
MCZ	mancozeb	FUN
MEA	mecoprop (d-isomer) present as potassium salt	HER
MEC	mecoprop-salts	HER
MED	methidathion	INS
MEE	mecoprop (d-isomer) present as acid	HER
MEI	dimethanamid	HER
MET	methoxychlor	INS
MEV	mevinphos alpha isomer	INS
MEX	tribenuron methyl	HER
MGD	di-n-lpropyl isosinchomeronate	IRP
MGH	2-hydroxyethyl N-octyl sulfide	IRP
MGK	n-octyl bicycloheptene dicarboximide	INS
MHB	methiocarb	INS
MHY	metaldehyde	MOL
MIS	methyl isothiocyanate	HER, INS
MML	methomyl	INS
MMM	thifensulfuron methyl	HER
MNK	methyl nonyl ketone (dog and cat repellent)	VPC
MOA	paraffin base mineral oil	ADJ
MOI	mineral oil	INS,HER, FUN
MOL	monolinuron	HER
MOM	methamidophos	INS
MON	monuron	HER
MOR	chinomethionat	INS,FUN
MPR	methoprene	INS
MSC	mercurous chloride	FUN
MSM	monosodium methane arsonate	HER
MTA	metalaxyl	FUN
MTB	metobromuron	HER

CODE	COMMON CHEMICAL NAME	TYPE
MTL	metolachlor	HER
MTM	metam sodium	INS,FUN, HER
MTR	metiram	FUN
MUS	mustard oil	VPC
MYC	myclobutanil	FUN
NAA	naphthalene acetic acid	PGR
NAD	naphthaleneacetamide	PGR
NAL	naled	INS
NAP	naptalam	HER
NBP	napropamide	HER
NEO	tetramethrin	INS
NIA	nicotine	INS,VPC
NIO	nicosulfuron	HER
NON	nonylphenoxypolyethoxyethanol	ADJ
NPH	naphthalene	INS,VPC
NUL	nuclear polyhedrosis virus of red-headed pine sawfly	INS
OAL	oil of lemon grass	VPC
ODM	oxydemetron-methyl	INS
OMI	propargite	INS
OPE	octylphenoxypolyethoxy ethanol	ADJ
OPO	octylphenoxypolyethoxy ethanol ester	ADJ
OXA	oxamyl	INS
OXR	oxyfluorfen	HER
OXT	oxytetracycline hydrochloride	FUN
PAE	primary alcohol ethoxylate	ADJ
PAQ	paraquat	HER
PAY	polyacrylamide	ADJ
PAZ	paclobutrazol	HER
PBU	piperonyl butoxide	INS
PCP	pentachlorophenol	WPS
PDB	paradichlorobenzene	INS,VPC
PEB	pebulate	HER
PEN	pendimethalin	HER

CODE	COMMON CHEMICAL NAME	TYPE
PFH	paraformaldehyde	FUN
PFL	permethrin	INS
PGM	pheromone: grape berry moth	INS
PHR	phorate	INS
PHS	phosalone	INS
PHY	propamocarb	FUN
PIC	picloram amines or salts	HER
PIN	pindone	ROD
PIR	pirimicarb	INS
PMA	phenyl mercuric acetate	FUN
PMP	phenmedipham	HER
POA	phosphate ester	ADJ
POB	polymerized butenes	VPC
POI	pine oil	FUN
PON	propiconazole	FUN
POO	blend of oils: lemongrass, citronella, orange, bergamot	IRP
PPF	propramphos	INS
PRL	propanil	HER
PRM	prometone	HER
PRO	prometryne	HER
PRT	phosmet	INS
PTH	parathion	INS
PTX	oxycarboxin	FUN
PVP	polyvinyl polymer	ADJ
PYD	pyridaben	INS
PYF	pyrazophos	INS
PYR	pyrethrins (metered aerosol-commercial)	INS
PYR	pyrethrins	INS
PYZ	pyrazon	HER
QTZ	quintozene	FUN
REZ	resmethrin	INS
ROE	cycloate	HER
ROT	rotenone	INS
ROT	rotenone (fish toxicant)	VPC

CODE	COMMON CHEMICAL NAME	TYPE
SCL	sodium chlorate mixtures	HER
SFD	sulfoxide (synergist)	INS
SFL	sodium fluoride	INS
SFS	sodium fluosilicate (or sodium silicofluoride)	INS
SFT	sulfotep	INS
SID	siduron	HER
SIL	silica aerogel	INS
SIO	silicon dioxide	INS
SMM	sodium metaborate octahydrate	HER,WPS
SMT	sodium metaborate tetrahydrate	HER
SMZ	simazine	HER
SOA	soap-insecticidal (includes fatty acids)	INS,VPC
SOD	sethoxydim	HER
SOR	polyoxyethylene (20) sorbitan monolaurate	ADJ
SPC	sodium pentachlorophenate	HER
SQS	sulfaquinoxaline	ROD
STC	sodium tetrachlorophenate	WPS
STN	streptomycin	FUN
STR	strychnine as alkaloid or sulphate	VPC,ROD
SUL	sulphur	FUN,INS
SUS	lime sulphur or calcium polysulphide	FUN,INS
SUS	sulphide sulphur	INS
SUT	butylate	HER
TAF	tallow fatty acid amine ethoxylate	ADJ
TBA	trichlorobenzoic acid	HER
TCM	2-(thiocyano methylthio) benzothiazole	FUN
TCP	tetrachlorophenol	WPS
TCS	trichloroacetic acid	HER
TEB	tebuthiuron	HER
TEL	tefluthrin	INS
TER	terbacil	HER
TET	chlorothalonil	FUN
TFZ	tebufenozide	INS
THI	thiram animal repellent	VPC

CODE	COMMON CHEMICAL NAME	TYPE
THI	thiram	FUN
TMN	trimethylmonyl polyethoxy ethanol	ADJ
TOF	tall oil fatty acids	ADJ
TPM	thiophanate-methyl	FUN
TPR	triclopyr	HER
TQB	triadimefon	FUN
TRA	tralkoxydim	HER
TRB	etridiazole	FUN
TRF	trifluralin	HER
TRI	trichlorfon	INS
TRL	triallate	HER
TRN	z-9-tricosene	INS
TRR	triforine	FUN
TRS	triasulfuron	HER
TZL	thiabendazole	FUN
VER	vernolate	HER
VIN	vinclozolin	FUN
VIT	carbathiin	FUN
VPR	hexazinone	HER
WAR	warfarin	ROD
WAT	water soluble dyes	HER
XAY	2,4-xylenol (2,4,dimethylphenol)	FUN
ZIN	zineb	FUN
ZIR	ziram	FUN
ZNN	zinc napthenate	WPS
ZNP	zinc phosphide	ROD