



ONTARIO GUIDELINES
FOR
CLASSIFICATION
OF
PESTICIDE PRODUCTS

PESTICIDES ADVISORY COMMITTEE

JUNE 1986

SB
965
.058
1986



Ontario

Ministry
of the
Environment

The Honourable
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Minister

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Deputy Minister



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June 1986

ONTARIO GUIDELINES FOR
CLASSIFICATION OF PESTICIDES PRODUCTS

Ontario's Pesticides Act and Regulation 751, 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 placed in one of the schedules to the Ontario Regulation.

Pesticide products are classified into six schedules in Regulation 751 on the basis of their toxicity, environmental or health hazard, persistence of the active ingredient or its metabolites, concentration and usage. This classification system provides the basis for regulating the distribution, availability and use of pesticide products in Ontario.

A procedure has recently been put in place to improve the classification process for pesticide products. This procedure provides for "interim status" products. These products are proposed by the Minister for inclusion in a schedule to Regulation 751, and the proposal is published in the Ontario Gazette. A person who sells or uses such a product as if it were in the specified schedule, is exempt from the prohibition against sale or use of an unscheduled product. A copy of the revised section of the Regulation is shown in Appendix A.

The procedure to classify new pesticide products is as follows:

1. Registrants are required to provide the Ontario Pesticides Advisory Committee with the necessary documents in support of classification as described in this publication.

All applications for classification must be submitted to the Chairman, Ontario Pesticides Advisory Committee, Ministry of the Environment, Suite 100, 135 St. Clair Avenue West, Toronto, Ontario M4V 1P5.

2. Notice of proposed scheduling of products that have been reviewed and recommended by the Pesticides Advisory Committee and approved by the Minister of the Environment will be regularly published in the Ontario Gazette as "interim status" products.
3. Once such a notice has been published, a pesticide product can be legally sold, used, stored, displayed or transported provided it is treated as being in the schedule specified in the notice.

4. The "interim status" of products remains in effect until:-
 - a. a revocation of the listing is published in the Ontario Gazette;
 - b. eighteen months have expired since the listing was published in the Ontario Gazette; or
 - c. the product is placed in a schedule to Regulation 751 by a regulatory amendment.
5. The "interim status" of a product will be reviewed within eighteen months of publication in the Ontario Gazette and will be considered for placement in one of the six schedules to Regulation 751.
6. A product which has been placed in a schedule to Regulation 751 retains this classification until changed or revoked.

For additional information concerning "interim status" pesticides, please contact the Agricultural and Industrial Chemicals Section, Hazardous Contaminants and Standards Branch, Ministry of the Environment, Suite 100, 135 St. Clair Avenue West, Toronto, Ontario, M4V 1P5, or any Regional or District Office of the Ministry of the Environment.

SCHEDULES

Schedule 1

Pesticides in this schedule can only be used under the authority of a licence and/or specific use permit. Sales of Schedule 1 pesticides are permitted only through wholesale vendors and holders of Class 1 retail vendor licences. A record must be kept of each sale.

Schedule 1 includes: Pesticides that are judged to 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 nontarget organisms either by acute or chronic toxicity.
- b) pesticides exhibiting acute oral LD₅₀ values of less than 50 mg/kg/body weight.
- c) pesticides exhibiting acute dermal LD₅₀ values of less than 100 mg/kg/body weight.
- d) pesticides which through their mode of action may inflict unnecessary suffering to pest vertebrate animals.

Schedule 2

Pesticides in this schedule are restricted to use by agriculturalists, licensed exterminators and registered custom sprayers. Sales are permitted through wholesale vendors and holders of Class 1 and Class 2 retail vendor licences. Sales records must be kept.

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

- a) organic pesticides that do not present problems of long term persistence or accumulation in biological tissues, and those inorganic pesticides that may present a degree of hazard to the environment.
- b) pesticides exhibiting acute oral LD₅₀ values of less than 500 mg/kg/body weight.
- c) pesticides exhibiting acute dermal LD₅₀ values of less than 1000 mg/kg body weight.

Schedule 3

Pesticides in this schedule may be made available to agriculturalists, licensed exterminators, registered custom sprayers and the general public in accordance with uses described on the product labels. Sales are permitted through wholesale vendors and holders of Class 1, Class 2 or Class 3 retail vendor licences. Sales records are not required.

Schedule 3 includes: Pesticides judged to pose minimal hazards to human health and/or the environment if used according to recommended procedure. 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 of less than 5000 mg/kg/body weight.
- d) pesticides exhibiting acute dermal LD₅₀ values of less than 10,000 mg/kg/body weight.
- e) product residues should not pose a problem when 'empty' containers are disposed of in municipal garbage.

Schedule 4

Pesticides in this schedule are those that can safely be handled by any type of retail outlet. Wholesalers are required to have a wholesale vendor licence or a limited wholesale vendor licence but no vending licence is required at the retail level.

Schedule 4 includes: Pesticides that are judged to be relatively innocuous to human health and/or the environment.

For example:-

- a) pesticides that are formulated in very low concentrations and exhibiting acute oral LD₅₀ values of greater than 5000 mg/kg/body weight.
- b) certain products that are used as insect or animal repellents.
- c) all products must carry a federally approved "Domestic" label.
- d) maximum package content must not exceed 1 kilogram by weight or 1 litre by volume, and all containers must be physically inspected and approved by the Pesticides Advisory Committee after acceptance of the formulated products as Schedule 4 candidates. (See packaging guidelines, Table 4.)

Schedule 5

Pesticides in this schedule are limited to agricultural use, and are restricted to use by agriculturists, appropriately licensed land exterminators, registered custom sprayers or permit holders. Sales are permitted only through wholesale vendors and holders of Class 1 retail vendor licences. A record must be kept of each sale.

Schedule 5 includes: Pesticides that are judged to pose a serious hazard to public health and/or the environment. For example:-

- a) pesticide exhibiting acute oral LD₅₀ values of less than 50 mg/kg/body weight.
- b) pesticides exhibiting acute dermal LD₅₀ values of less than 100 mg/kg/body weight.
- c) pesticide formulations that have high inhalation toxicities at normal temperatures.
- d) use patterns restricted to agricultural crops.
- e) the lack of efficacious and less hazardous products which could provide adequate protection to agricultural crops.

Schedule 6

Pesticides in this schedule are of similar formulation to those in Schedule 4. Sale of Schedule 6 pesticides may be made by holders of wholesale or limited wholesale vendor licences, and by holders of Class 1, Class 2 or Class 3 retail vendor licences. Sales records are not required.

Schedule 6 includes:

- a) Pesticides that are judged to be relatively innocuous to public health and/or the environment and carry federally approved Agricultural, Industrial, Commercial or Domestic labels.
- b) Candidates for Schedule 4 (Domestic classification) in quantities which exceed 1 kilogram in weight and 1 litre in volume or do not meet the Schedule 4 packaging guidelines.

APPLICATIONS FOR CLASSIFICATION OF NEW PESTICIDE PRODUCTS

The Ontario Pesticides Advisory Committee reviews information in regard to toxicity, environmental and health hazards of a new pesticide product and makes a recommendation for the scheduling of it to the Minister of the Environment.

All applications for classification must be submitted to the:

Chairman
Ontario Pesticides Advisory Committee
Ministry of the Environment
Suite 100, 135 St. Clair Avenue West
Toronto, Ontario
M4V 1P5

The information needed in support of applications is described in the succeeding pages.

TABLE 1

SCIENTIFIC AND/OR TECHNICAL INFORMATION REQUIRED TO CLASSIFY END-USE PESTICIDE PRODUCTS*

* If end-use products contain previously unreviewed active ingredients refer also to Table 3.

1. Applicant's name and address.
2. Registrant's name and address (if different to above).
3. Canadian Agent's name and address (if applicable).
4. Eight copies of federally approved label.
5. Federal Pest Control Products Act registration number.
6. Federal Pest Control Products Act registration status (full or temporary). If temporary, state nature of temporary registration.
7. Classification of private-label registrations. Provide the name and address of the initial registrant, the initial product's name and the PCP registration number for end-use products registered by Agriculture Canada under the private-label process.
8. Product chemistry: Storage stability, safety precautions, decontamination and emergency procedures.
9. Type and size of containers.
10. Summaries of each of the following banks of studies on end-use products:-
 - Toxicology (Acute and short term). These data should include the LD₅₀ and the slope of the dose response curve from which it is derived.
 - Environmental chemistry
 - Environmental toxicology

If summaries of the above studies are not available the applicant should contact the Pesticides Advisory Committee.
11. Residues:
 - i) Maximum residue limits (MRLs) as determined by Health & Welfare Canada.
 - ii) Analytical method if different from parent compound.

continued/..

TABLE 1 continued

12. Samples of the empty containers complete with closures and labels must be provided if classification in Schedule 4 is requested (See Table 4 - Packaging Guidelines).
13. The Committee reserves the right to request additional data on the active ingredient/s or other constituents in the product.
14. If federal registration is close to completion, and the registrant wishes to initiate the Ontario classification process as described above, copies of the proposed label text may be submitted in lieu of approved labels (See Item 4 above).

TABLE 2

INFORMATION REQUIRED TO CLASSIFY END-USE FERTILIZER - PESTICIDE PRODUCTS*

- * If end-use products contain previously unreviewed pesticide active ingredients refer to Table 3.
1. Applicant's name and address.
 2. Registrant's name and address (if different to above).
 3. Canadian Agent's name and address (if applicable).
 4. Eight typewritten copies of federally approved label. (Please do not send fertilizer bags.)
 5. Federal Fertilizer Act registration number.
 6. Type and size of containers.
 7. The Committee reserves the right to request additional data on the active ingredient/s or other constituents in the product.

TABLE 3

**SCIENTIFIC AND/OR TECHNICAL INFORMATION REQUIRED FOR A NEW
TECHNICAL ACTIVE INGREDIENT TO SUPPORT CLASSIFICATION OF THE END-USE
PRODUCT**

Please provide two copies of the following:

1. Name and address of manufacturer.
2. Name and address of registrant (if different to above).
3. Name and address of Canadian Agent (if applicable).
4. 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) analytical procedure 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 LD₅₀ 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 Metabolism; Terrestrial and aquatic dissipation and accumulation; Storage, disposal and decontamination.)*
 - d) Environmental Toxicology (Birds and mammals; aquatic organisms; non-target invertebrates.)*

* Summaries of studies carried out on either the technical active ingredient or the end-use product are acceptable.

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

8. Residues: i) Maximum residue limits (MRLs) as determined by Health & Welfare Canada.
9. The Committee reserves the right to request additional data.

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, and all containers must be submitted to the Pesticides Advisory Committee for physical 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. Formulators are invited to discuss those approved devices with the Committee. In some cases, a simple plastic cap, similar to that used on coffee cans, may be sufficient.

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

Folding 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.

TABLE 4 continued

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.

All labels must contain suitable guidance for the general public and must not be misleading.

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.

Registrants are encouraged to discuss with the Committee any packaging improvements they may make in order to conform with these requirements.

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.

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

Where a pesticide product 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 will be classified in a schedule no less restrictive than Schedule 2. The criteria for Schedules 1, 2 and 5 will be followed when classifying all other exclusively "Restricted" control products.

CRITERIA FOR CLASSIFYING FERTILIZERS CONTAINING PESTICIDES

Fertilizers containing one pesticide active ingredient

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

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.

REVIEW OF PREVIOUSLY CLASSIFIED PESTICIDE PRODUCTS

Technical active ingredients and end-use 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 end-use product. Reclassification of end-use 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 a submission must be provided in writing, accompanied by supportive documents.

SECTION 20 OF REGULATION 751 UNDER THE PESTICIDES ACT AS
AMENDED BY ONTARIO REGULATION 223/86
(FILED APRIL 25, 1986; ONTARIO GAZETTE MAY 10, 1986)

- 20(1) For the purposes of the Act and this Regulation pesticides are classified as follows:
- (a) the pesticides set out in Schedule 1 are classified as Schedule 1 pesticides;
 - (b) the pesticides set out in Schedule 2 are classified as Schedule 2 pesticides;
 - (c) the pesticides set out in Schedule 3 are classified as Schedule 3 pesticides;
 - (d) the pesticides set out in Schedule 4 are classified as Schedule 4 pesticides;
 - (e) the pesticides set out in Schedule 5 are classified as Schedule 5 pesticides;
 - (f) the pesticides set out in Schedule 6 are classified as Schedule 6 pesticides; and
 - (g) the pesticides described in subsection (2) are classified as interim status pesticides.
- NEW 20(2) An interim status pesticide is a pesticide that is:
- (a) registered and assigned a registration number under the Pest Control Products Act (Canada); and
 - (b) listed in the Ontario Gazette as a proposed addition to a specified schedule to this Regulation.
- NEW 20(3) For the purposes of clause 2(b), a pesticide is deemed to be not listed if,
- (a) a revocation of the listing is published in the Ontario Gazette;
 - (b) eighteen months have expired since the listing was published in the Ontario Gazette; or
 - (c) the listed pesticide is placed in a Schedule to this Regulation.
- NEW 20(4) Every person using, storing, displaying, selling or transporting an interim status pesticide as if it were a pesticide in the Schedule specified in the Ontario Gazette is exempt from the Act and this Regulation for that use, storage, display, sale or transportation.

PREVIOUSLY REVIEWED PESTICIDE ACTIVE INGREDIENTS

ACA Acaricides

INS Insecticides

CODE	COMMON OR CHEMICAL NAME	(BRAND)
ABT	temephos	(Abate)
ACP	acephate	(Orthene)
ADC	aldicarb	(Temik)
ADO	hydramethylnon	(Maxforce)
AFG	pyrazophos	(Afugan)
ALD	aldrin	
ALM	d-trans allethrin	
ALP	aluminum phosphide	(Phostoxin)
AMC	aminocarb	(Matacil)
BAY	propoxur	(Baygon)
BDC	bendiocarb	(Ficam)
BNS	borax	
BOA	boric acid	
BPC	dienochlor	(Pentac)
BRO	bromophos	(Nexion)
BTB	Bacillus thuringiensis	
BZE	benzene	
CAB	carbaryl	(Sevin)
CAD	carbon disulfide	
CAF	carbofuran	(Furadan)
CFV	chlorfenvinphos	(Birlane)
CIN	crotoxyphos	(Ciodrin)
CLD	chlordan	
COA	coal tar acids	
COO	coal tar oils	
COU	coumaphos	(Co-Ral)

ACA Acaricides

INS Insecticides (Con't.)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
COY	terbufos	(Counter)
CPN	chloropicrin	
CPT	carbophenothion	(Trithion)
CTC	carbon tetrachloride	
CYM	cypermethrin	(Rip-cord)
DCF	dicofol	(Kelthane)
DDT	DDT	
DEL	deltamethrin	(Decis)
DEM	demeton	(Systox)
DFB	diflubenzuron	(Dimilin)
DIA	diazinon	
DIE	dieldrin	
DIM	dimethoate	(Cygon)
DIN	dinocap	(Dikar)
DIS	disulfoton	(Dy-Syston)
DIX	dioxacarb	
DNC	dinitrocresol sodium salt	(Elgetol)
DPA	diphenylamine	(No-Scald)
DUB	chlorpyrifos (Dursban)	(Lorsban)
DVP	dichlorvos	(Vapona)
DYF	fonofos	(Dyfonate)
EDB	ethylene dibromide	
EDC	ethylene dichloride	
END	endrin	
ESF	endosulfan	(Thiodan)
ETH	ethion	
ETO	ethylene oxide	

ACA Acaricides

INS Insecticides (Con't.)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
FEL	fensulfothion	(Dasanit)
FBT	fenbutatin oxide	(Vendex)
FEM	fenitrothion	(Sumithion)
FET	fenthion	(Baytex)
FEV	fenvalerate	(Belmark)
FOM	formetanate hydrochloride	(Carzol)
GAR	tetrachlorvinphos	(Gardona)
GOO	azinphos-methyl	(Guthion)
GUM	natural gum resins	
HCN	hydrogen cyanide	(HCN)
HEP	heptachlor	
IOJ	iodofenphos	(Novanol N)
ISR	isophenphos	(Amaze)
KDC	potassium dichromate	
LAR	lead arsenate	
LIN	lindane	(Lindane)
MAL	malathion	
MBR	methyl bromide	(Dowfume)
MED	methidathion	(Supracide)
MEN	menazon	(Sayfos)
MET	methoxychlor	(Marlate)
MEV	mevinphos alpha isomer	(Phosdrin)
MGK	n-octyl bicycloheptene dicarboximide	(MGK)
MHB	methiocarb	(Mesurol)
MIS	methyl isothiocyanate	(Vorlex)
MIT	(Mitin FF)	
MML	methomyl	(Lannate)

ACA Acaricides

INS Insecticides (Con't.)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
MOI	mineral oil	(Dormant Oil)
MOM	methamidophos	(Monitor)
MOR	(Morestan)	
MPR	methoprene	(Altosid)
MTM	metam sodium	(Vapam)
NAL	naled	(Dibrom)
NEO	tetramethrin	
NIA	nicotine	
ODM	oxydemeton-methyl	(Metasystox)
OMI	propargite	(Omite)
OXA	oxamyl	(Vydate)
PBU	piperonyl butoxide	(Synergist)
PCP	pentachlorophenol	
PDB	paradichlorobenzene	(Moth-Killer)
PFL	permethrin	(Ambush)
PHG	d-phenothrin	
PHR	phorate	(Thimet)
PHS	phosalone	(Zolone)
PIR	pirimicarb	
PLT	cyhexatin	(Plictran)
PRT	phosmet	(Imidan)
PTH	parathion	
PYR	pyrethrins	
REZ	resmethrin	
RON	ronnel	
ROT	rotenone	
RUE	crufomate	(Ruelene)

ACA Acaricides

INS Insecticides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
SFD	sulfoxide	synergist
SFL	sodium fluoride	
SFT	sulfotep	
SIO	silicon dioxide	
SNP	dimetilan	(Snip)
SOA	soap-insecticidal	
SUL	sulphur	
SUS	sulphide sulphur	(Lime sulphur)
TED	tetradifon	(Tedion)
THA	isobornyl thiocyanacetate	
TOX	toxaphene	(Hog-Mange Cure)
TRI	trichlorfon	(Dylox)
TRN	z-9-tricosene	
WAX	famphur	(Warbex)

FUN Fungicides

AAL	allyl alcohol	(AA Soil Drench)
ASP	asphalt solids	(Pruning Paint)
AUR	auramine	
BLN	triadimefon	(Bayleton)
BML	benomyl	(Benlate)
BNS	borax	
CAP	captan	
CDD	cadmium chloride	(Cady)
CDS	cadimum sebacate	
CNB	chloroneb	(Tersan)
CPN	chloropicrin	
CRG	m-cresol	(Gallex)

FUN Fungicides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
CUB	copper as tribasic copper sulphate	
CUS	copper sulphate	
CUY	copper oxychloride	
CUZ	copper as cupric hydroxide	
CYC	cycloheximide	(Acti-Dione)
DAZ	dazomet	(Mylone)
DCH	dichlone	(Phygon)
DEX	fenaminosulf	(Lesan)
DFT	captafol	(Difolatan)
DIK	dichloran	(Botran)
DIN	dinocap	(Dikar)
DNC	dinitrocresol	(Elgitol)
DOD	dodine	(Cyprex)
DOM	dodemorph-acetate	(Meltatox)
DPA	diphenylamine (No-scald)	
DSF	chlorinated ϕ 3 hydrocarbons (DD., Telone, Vidden)	
DYR	anilazine	(Dyrene)
ETR	ethirimol	(Milgo)
ETY	ethoxyquin	
FEH	fentin hydroxide	(Du-Ter)
FER	ferbam	
FOL	folpet	(Phaltan)
FOR	formaldehyde	

FUN Fungicides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
GLY	glyodin	(Cyprex)
HQB	oxine benzoate	(No-Damp)
IPD	iprodione	(Rovral)
KCR	potassium chromate	
MAG	malachite green	
MAN	maneb	(Manzate)
MBD	carbendazim-phosphate	(Lignasan)
MBR	methyl bromide	(Dow-fume)
MCC	mercuric chloride	
MCZ	mancozeb	
MOI	mineral oil	
MOR	(Morestan)	
MSC	mercurous chloride	
MTA	metalaxyl	(Ridomil)
MTM	metam sodium	(Vapam)
MTR	metiram	(Polyram)
NAB	nabam	
OXT	oxytetracycline hydrochloride	(Terramycin R)
PFH	paraformaldehyde	
PMA	phenyl mercuric acetate	(PMAS)
POI	pine oil	
PTX	oxycarboxin	(Arrest)
QTZ	quintozone	
STN	streptomycin	(Agri-Mycin)
SUL	sulphur	
SUS	sulphide sulphur	(Lime Sulphur)

FUN Fungicides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
TCM	TCMTB	(Busan)
TET	chlorothalonil	(Daconil)
THI	thiram	
TFM	thiophanate-methyl	(Easout)
TRB	etr Diazole	(Truban)
TRR	triforine	(Funginex)
TZL	thiabendazole	(Mertect)
VIT	carbathiin	(Vitavax)
XAY	2,4-xyleneol	(Gallex)
ZIN	zineb	
ZIR	ziram	

WPS Wood Preservatives

ALD	aldrin	
ANH	anthracene oil	(Carbolineum)
BNA	borax anhydrous (sod. tetraborate)	
BNS	borax	
BTO	bis-(tri-n-butyltin) oxide	
CLD	chlordane	
COA	coal tar acids	
CPN	chloropicrin	
CRO	crotonic acid	
CRT	creosote	
CUN	copper naphthenate	
CUO	copper oxide	
CUS	copper sulphate	
CUQ	copper-8-quinolinolate	
DCA	dichlofluanid	(Cuprinol)
DNP	dinitrophenol	
IRN	iron from iron naphthenate	
PCP	pentachlorophenol	
SMM	sodium metaborate octahydrate	
TCP	tetrachlorophenol	
ZNN	zinc naphthenate	

VPC Vertebrate Pest Control Products (excluding rodenticides)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
AMP	4-amino pyridine	(Avitrol)
ANR	anticmycin fish toxicant	
AOH	ammonia vertebrate repellent	
AZA	(Ornitrol) bird chemosterilant	
BAS	niclosamide	(Bayluscide)
BON	bone oil animal repellent	
CAS	capsaicin animal repellent	
FET	fenthion bird repellent	
MNK	methyl nonyl ketone dog and cat repellent	
MUS	mustard oil	
NIA	nicotine animal repellent	
NPH	naphthalene animal repellent	
OAL	oil of lemon grass	
PDB	paradichlorobenzene animal repellent	
PMB	polymerized butenes	
ROT	rotenone fish toxicant	
SOA	soap repellent	
STR	strychnine as alkaloid or sulphate	
TFM	lampreycide	
THI	thiram animal repellent	

ROD Rodenticides

CODE	COMMON OR CHEMICAL NAME	(BRAND)
ALP	aluminum phosphide	(Phostoxin)
ALS	alphachloralose	
BRF	brodifacoum	(Talon)
BRM	bromadiolone	(Bromone)
CHP	chlorophacinone	(Rozol)
CPD	3 chloro-1,2 propanediol	(Epibloc)
CPN	chloropicrin	
DPC	diphacinone	(Ramik)
EGO	ergocalciferol	(Sorexa)
FUM	fumarin	
HCN	hydrogen cyanide	(HCN)
MBR	methyl bromide	
PIN	pindone	
QTX	cholecalciferol	(Quintox)
RSQ	red squill	
SOE	gaseous oxides of sulphur	
SQS	sulfaquinoxaline	(Pindone)
STR	strychnine as alkaloid or sulphate	
SUF	sodium monofluoroacetate (1080)	
WAR	warfarin	
ZNP	zinc phosphide	

HER Herbicides

CODE	COMMON OR CHEMICAL NAME	(BRAND)
AAL	allyl alcohol	(AA Soil Drench)
ACA	acifluorfen	(Blazer)
ACL	acrolein	
ALA	alachlor	(Lasso)
ALL	allidochlor	(Radox)
AMA	ammonium methyl arsonates	
AMI	amitrole	
AMS	ammonium sulfamate	
ASM	asulam	(Asulox F)
ATR	atrazine	
AVG	difensoquat	(Avenge)
AZP	aziprotryn	
BAL	benfluralin	(Balan)
BAR	barban	(Carbyne)
BAX	metribuzin	(Sencor)
BBU	bromacil	(Hyvar)
BDX	cyanazine	(Bladex) (Blagal)
BEN	benazolin	(Benazolin)
BET	bensulide	(Betasan)
BNP	borax pentahydrate	
BNS	borax	
BRY	bromoxynil	(Torch. Pardner)
BTL	desmedipham	
BZN	bentazon	(Basagran)
BZP	benzoylprop-ethyl	(Endaven)

HER Herbicides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
CHA	chloramben	(Amiben)
CHL	chlorthal dimethyl	(Dacthal)
CIP	chlorpropham	(CIPC)
CLX	chloroxuron	(Tenoran)
CPN	chloropicrin	
CSL	chlorsulfuron	(Glean)
CUM	copper sulphate	(Bluestone)
CUT	cutrine	
DAL	dalapon	(Dowpon, Basfapon)
DAZ	dazomet	(Mylone)
DCB	dichlobenil	
DIC	dicamba	(Banvel)
DIG	dichlorprop amine	(2,4-DP)
DIH	dichlorprop LV esters	
DIH	dichlorprop HV esters	
DIP	diphenamid	(Enide)
DIQ	diquat	(Reglone)
DNA	dinitramine	(Cobex)
DNB	dinoseb	(Sinox)
DPB	2,4-DB butyl ester	(Embutox)
DPP	dichlofop-methyl	(Hoe-Grass)
DUR	diuron	(Karmex)
DXA]		
DXB]-	2,4-D acids, amines and salts	
DXS]		
DXE	2,4-D H.V. esters	

HER Herbicides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
DXF]		
DXG]	2,4-D L.V. esters	
ENT	endothal	
EPT	eptam	(EPTC)
ERB	erbon	
FES	ferrous sulphate	
FLA	flamprop-methyl	(Metaven)
FLZ	fluazifop-butyl	(Fusilade)
FNC	chlorfenac	
FNP	fenoprop salts and amines	
FNP	fenoprop H.V. esters	(Silvex)
FNP	fenoprop L.V. esters	
GOA	oxyfluorfen	(Goal)
GPS	glyphosate	(Roundup)
HCY	hydrogen cyanamide	
IOX	ioxynil	(Tbtril)
KRB	propyzamide	(Kerb)
KRE	fosamine ammonium	(Krenite)
LUN	linuron	(Lorox)

HER Herbicides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
MAB]	MCPA amines and salts	
MAS]		
MAE	[MCPA H.V. esters	
MAE	[MCPA L.V. esters	
MBR	methyl bromide	
MBS	MCPB salts	(Tropotox)
MEC	mecoprop salts	(Compitox)
MIS	methyl isothiocyanate	(Vorlex)
MOH	mineral oil-herbicidal	
MOL	monolinuron	(Afesin)
MON	monuron	
MOO	monuron - TCA	
MSM	monosodium methane arsonate	
MTB	metobromuron	(Patoran)
MTL	metolachlor	(Dual)
MTM	metam-sodium	(Vapan)
NAP	naptalam	(Alanap)
PAQ	paraquat	(Gramoxone)
PCP	pentachlorophenol	
PEB	pebulate	(Tillam)
PIC	picloram amines or salts	(Tordon)
PMP	phenmedipham	(Betanal)

HER Herbicides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
PRF	propham	
PRL	propanil	(Stampede)
PRM	prometone	
PRO	prometryne	(Gesagard)
PRP	propachlor	(Ramrod)
PYZ	pyrazon	(Pyramin)
ROE	cycloate	(Ro-Neet)
SCL	sodium chlorate mixtures	
SOD	sethoxydim	(Poast)
SID	siduron	(Tupersan)
SLN	solan	
SMM	sodium metaborate octahydrate	
SMT	sodium metaborate tetrahydrate	
SMZ	simazine	
SPC	sodium pentachlorophenate	
SUA	sulfallate	(Vegadex)
SUT	butylate	(Sutan)
TBA	trichlorobenzoic acid	(TBA)
TBT	terbutryn]	
TBZ	terbuthylazine]	(Topoguard)
TCS	trichloroacetic acid	(TCA)
TEB	tebuthiuron	(Spike)
TER	terbacil	(Sinbar)
TRF	trifluralin	(Treflan)

HER Herbicides (Con't)

CODE	COMMON OR CHEMICAL NAME	(BRAND)
TRL	triallate	(Avadex BW)
TXB	2,4,5-T amine	
TXE	2,4,5-T H.V. esters	
TXF	2,4,5-T L.V. esters	
VER	vernolate	(Vernam)
VPR	hexazinone	(Velpar)
WAT	water soluble dyes	
	mixtures of	
	2,4-D]	
	mecoprop] amines	
	dichloroprop] and salts	
	plus dicamba	

IRP (Insect Repellents)

BPG	butoxypolypropylene glycol	(Crag)
CAS	capasaicin	
CIT	oil of citronella	
DMP	dimethyl phthalate	
DTU	N,N-diethyl-m-toluanide	(Deet)
EHX	ethyl hexanediol	
LAV	oil of lavender	
MGB	2,3,4,5-bis	(2-butylene)
	tetrahydro-2-furfural	(MGK II)
MGD	di-n-propyl isosinchomeronate	
	(MGK 326)	
MGH	2-hydroxyethyl N-octyl sulfide	
	(MGK 874)	

MISCELLANEOUS COMPOUNDS

CODE	COMMON OR CHEMICAL NAME	(BRAND)	
ACA	acetic acid		
ANC	ancymidol	(A-Rest)	(PGR)
AYC	cittowet		(ADJ)
BZA	benzoic acid		(ADJ)
CCC	chlormequat	(Cycocel)	(PGR)
CFM	chlorflurecol methyl	(Maintain)	(PGR)
COC	coconut diethanolamide		(ADJ)
CPA	4-chlorophenoxy acetic acid		(PGR)
DAM	daminozide	(B-Nine-Alar)	(PGR)
DFA	dimethyl alkyl		(ADJ)
DFM	dichlorflurecol methyl		(PGR)
ETA	1,2-ethanediol		(ADJ)
ETF	ethephon	(Ethrel)	(PGR)
FAA]			
FAB]	fatty alcohols		(PGR)
FCM	flurecol methyl		(PGR)
IBA	indole-butyric acid		(PGR)
KPR	kinoprene	(Enstar)	(IGR)
MAH	maleic hydrazide	(MH.30)	(PGR)
MFD	mefluidide	(Embark)	(PGR)
MHY	metaldehyde	(Slug Bait)	(MOL)
NAA	nepthalene acetic acid		(PGR)
NON	nonylphenoxypolyethoxyethanol		(ADJ)
OPE	octylphenoxypolyethoxy ethanol ester		(ADJ)
PAE	primary alcohol ethoxylate		(ADJ)
PVP	polyvinyl polymer adjuvant		(ADJ)
TMM	trimethylmonyl polyethoxy ethanol		(ADJ)
TOF	tall oil fatty acids		(ADJ)

