

100	SEED COATED WITH AGRICULTURAL CHEMICALS OTHER THAN FERTILIZERS	117	.Micro-organisms or from micro-organisms (e.g., fermentates, fungi, bacteria, viruses, etc.)
101	FERTILIZERS WITH INSECTICIDE, FUNGICIDE, DISINFECTANT, OR DEODORANT	118	.Plural active ingredients
102	.From sewage, human, or animal excrements (e.g., night soil, manure, guano, etc.)	119	..Inorganic active ingredient containing
103	ANTIDOTES (E.G., SAFENERS, ANTAGONISTS, ETC.)	120	...Inorganic active ingredient contains heavy metal or aluminum
104	.Hetero ring containing antidote	121	...With an organic active ingredient
105	..Hetero ring is six-membered including nitrogen	122	...Inorganic active ingredient contains boron
106	..Hetero ring is five-membered having two or more ring hetero atoms of which at least one is nitrogen (e.g., thiazoles, etc.)	123	...With an organic active compound
107	...Having -C(=X)-, wherein X is chalcogen, bonded directly to ring nitrogen of the five-membered hetero ring	124	...Hetero ring containing
108	..Oxygen containing hetero ring	125	...Containing -C(=X)X- or -C(=X)NH-, wherein the X's are the same or diverse chalcogens and substitution may be made for hydrogen only (e.g., phenoxyacetic acids, ureas, etc.)
109	.Antidote contains cyano or isocyano bonded directly to carbon	126	..Heavy metal or aluminum containing active ingredient
110	.Antidote contains -C(=X)X-, wherein the X's are the same or diverse chalcogens (e.g., carbamates, thiocarbamates, carboxylic acids, etc.)	127	..Phosphorus containing active ingredient wherein the phosphorus is other than solely as part of an inorganic ion in an addition salt
111	.Antidote contains organic nitrogen compound wherein the nitrogen, other than as nitro or nitroso, is attached directly or indirectly to carbon by nonionic bonding	128	...With an active heterocyclic compound
112	..Carboxamides (i.e., R-C(=O)NH ₂ , wherein R is hydrogen or carbon, and substitution may be made for the hydrogens on the nitrogen only; e.g., dichloracetamides, etc.)	129	..Hetero ring containing active ingredient
113	PLANT GROWTH REGULATORS WITH SOIL LIFE EXTENDERS	130	...Hetero ring is six-membered including nitrogen
114	COMPOSITIONS FOR PRESERVATION OR MAINTENANCE OF CUT FLOWERS	131	...The hetero ring also contains sulfur (e.g., benzothiadiazinones, etc.)
115	.Containing organic nitrogen compounds	132	....With additional hetero ring active ingredient
116.1	PLANT GROWTH REGULATING COMPOSITIONS (E.G., HERBICIDES, ETC.)	133	...The hetero ring consists of three nitrogens and three carbons
		134	....With additional hetero ring active ingredient
		135	....With an active ingredient containing -C(=X)X-, wherein the X's are the same or diverse chalcogens (e.g., thiocarbamates, carbamates, carboxylic acids, etc.)

- 136 ...The hetero ring consists of two nitrogens and four carbons
- 1371,2-diazines (e.g., pyridazones, etc.)
- 138 ...Hetero ring is five-membered including nitrogen
- 139 ...Plural ring nitrogens in the hetero ring
- 140 ...Oxygen containing hetero ring
- 141 ..Cyano, isocyano, cyanate, isocyanate, thiocyanate, or isothiocyanate (i.e., -CN, -NC, -OCN, -NCO, -SCN, or -NCS) containing active ingredient
- 142 ..Active ingredient contains -C(=X)X-, wherein the X`s are the same or diverse chalcogens
- 143 ...Nitrogen bonded directly to the carbon of the -C(=X)X- group (e.g., carbamates, thiocarbamates, etc.)
- 144 ...Carbocyclic ring bonded directly to the carbon of the -C(=X)X- group (e.g., benzoic acids, etc.)
- 145 ...Oxygen is bonded directly to a benzene ring and is part of an acyclic chain between the benzene ring and the -C(=O)O- group (e.g., 2,4-dichlorophenoxyacetic acids, naphthoxypropionic acids, etc.)
- 146 ...With an active ingredient containing nitrogen, other than as nitro or nitroso, wherein the nitrogen is attached directly or indirectly to carbon by nonionic bonding
- 147 ...Nitrogen or halogen attached indirectly to the carbon of the -C(=X)X- group by acyclic nonionic bonding
- 148 ..Active ingredient contains nitrogen, other than as nitro or nitroso, wherein the nitrogen is attached directly or indirectly to carbon by nonionic bonding
- 149 ...Carboxamides (i.e., R-C(=O)NH₂, wherein R is hydrogen or carbon, and substitution may be made for the hydrogens on the nitrogen only; e.g., dichloroacetamides, etc.)
- 150 ..Aquatic plant regulator (e.g., algicides, etc.)
- 151 ..Inorganic active ingredient containing
- 152 ..Heavy metal or aluminum containing active ingredient
- 153 ..Boron, silicon, or phosphorus containing active ingredient wherein the boron, silicon, or phosphorus is other than solely as part of an inorganic ion in an addition salt
- 154 ..Hetero ring containing active ingredient
- 155 ...Hetero ring includes nitrogen
- 156 ...Hetero ring is five-membered (e.g., thiadiazoles, etc.)
- 157 ..Active ingredient contains -C(=X)X-, wherein X`s are the same or diverse chalcogens (e.g., carbamates, thiocarbamates, carboxylic acids, etc.)
- 158 ..Active ingredient contains nitrogen, other than as nitro or nitroso, wherein the nitrogen is attached directly or indirectly to carbon by nonionic bonding
- 159 ...Having -C(=X)-, wherein X is chalcogen, bonded directly to the nitrogen (e.g., carboxamides, etc.)
- 160 ...Chalcogen attached directly or indirectly to the nitrogen by nonionic bonding
- 161 ..Active ingredient contains a ketone, aldehyde, ether, or hydroxy group, wherein the H of the hydroxy group may be replaced by a substituted or unsubstituted ammonium ion or a Group IA or IIA light metal
- 162 ..Abscission agent, defoliant, or desiccant
- 163 ..Inorganic active ingredient containing

164	..Boron, silicon, heavy metal, or aluminum containing active ingredient	181	....Oxygen attached indirectly to the five-membered hetero ring by acyclic nonionic bonding
165	..Phosphorus containing active ingredient wherein the phosphorus is other than solely as part of an inorganic ion in an addition salt	182	..Active ingredient contains - C(=X)X-, wherein the X`s are the same or diverse chalcogens
166	..Hetero ring containing active ingredient	183	..Active ingredient contains organic nitrogen, other than as nitro or nitroso, wherein the nitrogen is attached directly or indirectly to carbon by nonionic bonding
167	..Hetero ring is six-membered including nitrogen	184	.Desuckering or sucker control agent
168	....Plural ring nitrogens in the hetero ring	185	..Hetero ring containing active ingredient
169	..Hetero ring is five-membered having two or more ring hetero atoms of which at least one is nitrogen	186	..Active ingredient contains organic nitrogen, other than as nitro or nitroso, wherein the nitrogen is attached directly or indirectly to carbon by nonionic bonding
170	....Ring chalcogen in the hetero ring	187	.Inorganic active ingredient which contains boron, silicon, phosphorus, heavy metal, or aluminum
171	..Active ingredient contains - C(=X)X-, wherein the X`s are the same or diverse chalcogens	188	.Inorganic active ingredient is elemental nitrogen, elemental sulfur, or is a compound of nitrogen or sulfur
172	...Nitrogen or additional chalcogen bonded directly to the carbon of the -C(=X)X- group (e.g., thiocarbamates, carbamates, xanthates, etc.)	189	.Organic active compound containing
173	..Active ingredient contains nitrogen, other than as nitro or nitroso, wherein the nitrogen is attached directly or indirectly to carbon by nonionic bonding	190	..Heavy metal or aluminum containing
174	.Stunting or dwarfing agent	191	...Hetero ring containing
175	..Phosphorus containing active ingredient wherein the phosphorus is attached directly or indirectly to carbon by nonionic bonding	192	...Group IV or V heavy metal (e.g., Sn, As, Ti, etc.)
176	..Hetero ring containing active ingredient	193	..Boron or silicon containing
177	..Hetero ring is six-membered including nitrogen	194	..Phosphorus containing wherein the phosphorus is other than solely as part of an inorganic ion in an addition salt
178	....Chalcogen, nitrogen, or - C(=X)-, wherein X is chalcogen, bonded directly to ring carbon of the six-membered hetero ring	195	...Hetero ring containing
179	..Hetero ring is five-membered including nitrogen	196	....Ring chalcogen in the hetero ring (e.g., morpholines, etc.)
180	....Plural ring nitrogens in the hetero ring	197	....Plural ring nitrogens in the hetero ring
		198	..Having -C(=X)-, wherein X is chalcogen, bonded directly to the phosphorus
		199	...Nitrogen bonded directly to the phosphorus
		200	....Plural nitrogens bonded directly to the phosphorus

- 201 ...Nitrogen attached indirectly to the phosphorus by acyclic nonionic bonding
- 202The nitrogen is part of a cyano or isocyano group
- 203 ...Nitrogen or chalcogen bonded directly to the nitrogen
- 204 ...Having -C(=X)X-, wherein the X is chalcogen, bonded directly to the nitrogen
- 205Additional -C(=X)-, or additional nitrogen attached indirectly to the phosphorus by acyclic nonionic bonding
- 206 ...Containing -C(=X)X-, wherein the X's are the same or diverse chalcogens (e.g., N-phosphonomethylglycines, etc.)
- 207 ...Carbon bonded directly to the phosphorus
- 208 ...Halogen attached indirectly to the phosphorus by acyclic nonionic bonding
- 209 ..Hetero ring containing
- 210 ...Acyclic urea or thiourea bonded directly to ring carbon of the hetero ring (i.e., HNH-C(=X)-NH-, wherein X is sulfur or oxygen and substitution may be made for hydrogen only)
- 211Sulfonyl bonded directly to the urea or thiourea nitrogen (e.g., N-phenylsulfonyl-N'-pyridinylureas, etc.)
- 212The hetero ring consists of three nitrogens and three carbons
- 213Additional hetero ring containing
- 214The hetero ring consists of two nitrogens and four carbons
- 215Additional hetero ring containing
- 216 ...The hetero ring is five-membered including nitrogen
- 217Plural ring nitrogens and a single ring chalcogen in the hetero ring (e.g., 1,3,4-thiadiazoles, etc.)
- 218 ...Hetero ring contains at least seven members including nitrogen
- 219 ...Additional hetero ring containing
- 220 ...Having -C(=X)-, wherein X is chalcogen, bonded directly to ring nitrogen of the hetero ring
- 221 ...Hetero ring is six-membered including nitrogen and sulfur
- 222 ...Plural ring nitrogens in the hetero ring (e.g., thiadiazines, etc.)
- 223 ...Hetero ring is six-membered including nitrogen and oxygen
- 224 ...1,4-oxazines (including hydrogenated)
- 225Additional hetero ring containing
- 226Nitrogen or -C(=X)-, wherein X is chalcogen, bonded directly to ring nitrogen of the oxazine ring
- 227 ...Hetero ring is six-membered consisting of three nitrogens and three carbons
- 228 ...Polycyclo ring system having the six-membered hetero ring as one of the cyclos
- 229 ...Asymmetrical (e.g., 1,2,4-triazines, etc.)
- 230 ...Additional hetero ring containing
- 231 ...Nitrogen bonded directly to ring carbon of the six-membered hetero ring
- 232Plural nitrogens bonded directly to ring carbons of the six-membered hetero ring
- 233Chalcogen, -C(=X)-, wherein X is chalcogen, or cycloalkyl bonded directly to one of the nitrogens
- 234The nitrogens are further bonded to hydrogen or hydrocarbyl only
- 235 ...Hetero ring is six-membered consisting of two nitrogens and four carbons (e.g., 1,4-diazines, etc.)
- 236 ...1,2-diazines (including hydrogenated)
- 237Nitrogen attached directly to the diazine ring by nonionic bonding
- 238Chalcogen bonded directly to ring carbon of the diazine ring

- 2391,3-diazines (including hydrogenated)
- 240Polycyclo ring system having the diazine ring as one of the cyclos
- 241Three or more ring hetero atoms in the polycyclo ring system
- 242Chalcogen bonded directly to ring carbon of the diazine ring
- 243Plural chalcogens bonded directly to ring carbons of the diazine ring (e.g., uracils, etc.)
- 244 ...Hetero ring is six-membered consisting of one nitrogen and five carbons
- 245Polycyclo ring system having the six-membered hetero ring as one of the cyclos
- 246Bicyclo ring system having the six-membered hetero ring as one of the cyclos
- 247Quinolines or isoquinolines (including hydrogenated)
- 248Piperidines
- 249Having $-C(=X)-$, wherein X is chalcogen, bonded directly to ring nitrogen of the piperidine ring
- 250Plural pyridine or partially hydrogenated pyridine rings
- 251Additional hetero ring containing
- 252The additional hetero ring is five-membered including nitrogen
- 253Plural ring nitrogens in the additional hetero ring
- 254Chalcogen bonded directly to ring carbon of the six-membered hetero ring
- 255Nitrogen, other than as nitro or nitroso, or $-C(=X)-$, wherein X is chalcogen, bonded directly to ring carbon of the six-membered hetero ring
- 256Benzene ring bonded directly to the chalcogen
- 257Containing $-C(=X)NH-$, wherein X is chalcogen and substitution may be made for hydrogen only
- 258Containing $-C(=X)X-$, wherein the X's are the same or diverse chalcogens
- 259Nitrogen or sulfur attached directly or indirectly to the $-C(=X)X-$ group by acyclic nonionic bonding
- 260 ...Nitrogen, other than as nitro or nitroso, or $-C(=X)-$, wherein X is chalcogen, bonded directly to ring carbon of the six-membered hetero ring
- 261 ..Hetero ring is five-membered having two or more ring hetero atoms of which at least one is nitrogen
- 2621,2,4-thiadiazoles (including hydrogenated)
- 2631,3,4-thiadiazoles (including hydrogenated)
- 264Diazole ring (including hydrogenated) attached directly to the thiadiazole ring by nonionic bonding
- 265 ...Oxadiazoles (including hydrogenated)
- 2661,3-thiazoles (including hydrogenated)
- 267Benzothiazoles (including hydrogenated)
- 268Nitrogen attached directly to the thiazole ring by nonionic bonding
- 2691,2-thiazoles (including hydrogenated)
- 2701,3-oxazoles (including hydrogenated)
- 2711,2-oxazoles (including hydrogenated)
- 2721,2,4-triazoles (including hydrogenated)
- 273Chalcogen, nitrogen, or $-C(=X)-$, wherein X is chalcogen, bonded directly to ring carbon of the triazole ring
- 274Nitrogen or acyclic carbon chain containing carbon to carbon unsaturation attached directly or indirectly to the triazole ring by acyclic nonionic bonding
- 2751,3-diazoles (including hydrogenated)

- 276Polycyclo ring system having the diazole ring as one of the cyclos (e.g., benzimidazoles, etc.)
- 277Chalcogen or nitrogen bonded directly to ring carbon of the diazole ring
- 278Plural chalcogens bonded directly to ring carbons of the diazole ring
- 279Having $-C(=X)-$, wherein X is chalcogen, bonded directly to ring carbon of the diazole ring
- 2801,2-diazoles (including hydrogenated)
- 281Polycyclo ring system having the diazole ring as one of the cyclos
- 282Chalcogen or nitrogen bonded directly to ring carbon of the diazole ring
- 283 ...Hetero ring is five-membered consisting of one nitrogen and four carbons
- 284 ...Polycyclo ring system having the five-membered hetero ring as one of the cyclos (e.g., indoles, etc.)
- 285The ring nitrogen is bonded directly to two ring carbons of the same cyclo which carbons are members of one cyclo only (e.g., isoindoles, hydrogenated isoindoles, etc.)
- 286Benzene ring bonded directly to the ring nitrogen of the five-membered hetero ring
- 287Having $-C(=X)-$, wherein X is chalcogen, bonded directly to the five-membered hetero ring
- 288 ...Sulfur containing hetero ring
- 289 ...The hetero ring is five-membered
- 290Plural ring hetero atoms in the hetero ring
- 291 ...Oxygen containing hetero ring
- 292 ...The hetero ring is six-membered
- 293Plural ring oxygens in the hetero ring
- 294 ...The hetero ring is five-membered
- 295Plural ring oxygens in the hetero ring
- 296Polycyclo ring system having the hetero ring as one of the cyclos (e.g., methylenedioxyphenyls, etc.)
- 297Polycyclo ring system having the hetero ring as one of cyclos
- 298Bicyclo ring system having the hetero ring as one of the cyclos
- 299Chalcogen or $-C(=X)-$, wherein X is chalcogen, bonded directly to the hetero ring
- 300 ..Containing $-NH-C(=X)X-$, wherein the X's are the same or diverse chalcogens and substitution may be made for hydrogen only (e.g., carbamates, thiocarbamates, etc.)
- 301 ...Plural $-NH-C(=X)X-$ groups
- 302 ...Nitrogen, cyano, chalcogen, or additional $-C(=X)-$ bonded directly to the nitrogen
- 303 ...Nitrogen or additional chalcogen attached indirectly to the nitrogen by acyclic nonionic bonding
- 304 ...Benzene ring bonded directly to the nitrogen
- 305 ...Benzene ring attached indirectly to the nitrogen by nonionic bonding
- 306 ..Containing $-X-C(=X)X-$, wherein the X's are the same or diverse chalcogens (e.g., carbonates, thiocarbonates, xanthates, etc.)
- 307 ..Containing $-C(=X)X-$, wherein the X's are the same or diverse chalcogens, and at least one X is other than oxygen (e.g., thiocarboxylates, etc.)
- 308 ..Carbon bonded directly to $-NCX$ or $-XCN$, wherein X is chalcogen (e.g., cyanate, thiocyanate, or isothiocyanate, etc.)
- 309 ..Cyano or isocyano bonded directly to carbon
- 310 ...Benzene ring bonded directly to the cyano or isocyano group

- 311Two benzene rings bonded directly to the same oxygen (e.g., phenoxyphenyl compounds, etc.)
- 312 ...Nitrogen, other than as nitro or nitroso, attached indirectly to the cyano or isocyano group by nonionic bonding
- 313 ..Carboxylic acid ester (i.e., Z-C(=O)O- wherein Z is hydrogen or an organic radical bonded to the -C(=O)- group by a carbon and the single bonded oxygen of the -C(=O)O- group is bonded directly to carbon, which carbon may be single bonded to any atom but may be multiple bonded only to carbon)
- 314 ...Z contains a benzene ring
- 315Z contains sulfur or nitrogen, other than as nitro or nitroso, attached directly or indirectly to the benzene ring by nonionic bonding
- 316Z contains two benzene rings bonded directly to the same chalcogen (e.g., phenoxybenzoates, etc.)
- 317Z contains oxygen bonded directly to the benzene ring and indirectly bonded to the -C(=O)O- group through an acyclic carbon or acyclic carbon chain (e.g., phenoxyacetates, etc.)
- 318 ...The benzene ring is bonded directly to the carbon of the -C(=O)O- group (e.g., benzoates, etc.)
- 319 ...Z contains nitrogen, sulfur, or halogen attached indirectly to the -C(=O)O- group by nonionic bonding
- 320 ..Carboxylic acid, carboxylic acid salt, carboxylic acid anhydride, or carboxylic acid halide
- 321 ...Benzene ring containing
- 322Nitrogen, other than as nitro or nitroso, attached directly or indirectly to the benzene ring by nonionic bonding
- 323Oxygen is bonded directly to the benzene ring and is part of an acyclic chain between the benzene ring and a -C(=O)O- group (e.g., 2,4-dichlorophenoxyacetic acids, etc.)
- 324 ...The benzene ring is bonded directly to the carbon of a -C(=O)O- group (e.g., benzoic acids, etc.)
- 325 ...Containing halogen bonded directly to carbon (e.g., trichloroacetates, etc.)
- 326 ..Containing nitrogen, other than as nitro or nitroso, attached directly or indirectly to carbon by nonionic bonding
- 327 ...Ureas or thioureas (i.e., HNH-C(=X)-HNH, wherein X is oxygen or sulfur and substitution may be made for hydrogen only)
- 328 ...Nitrogen or -C(=X)- attached directly to urea or thiourea nitrogen by nonionic bonding (e.g., biurets, semicarbazones, etc.)
- 329Sulfur attached directly or indirectly to urea or thiourea nitrogen by nonionic bonding
- 330 ...Benzene ring attached directly or indirectly to urea or thiourea nitrogen by nonionic bonding
- 331Nitrogen, other than as nitro or nitroso, or -C(=X)-, attached indirectly to the urea or thiourea nitrogen by nonionic bonding, or alicyclic ring attached directly or indirectly to urea or thiourea nitrogen by nonionic bonding
- 332Plural benzene rings containing
- 333 ...Containing -NH-(O=S(=O))-, wherein substitution may be made for hydrogen only (e.g., sulfonamides, sulfamides, etc.)
- 334 ...Carboxamides or thiocarboxamides (i.e., R-(C=X)NH₂, wherein X is oxygen or sulfur, R is carbon or hydrogen, and substitution may be made for hydrogen only)

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| <p>335 ...Plural R-C(=X)NH₂ groups
 containing</p> <p>336 ...R contains benzene ring</p> <p>337 The benzene ring is bonded
 directly to the carbon of the
 -(C=X)NH₂ group (e.g.,
 benzamides, etc.)</p> <p>338 Chalcogen is bonded directly
 to the benzene ring and is
 part of an acyclic chain
 between the benzene ring and
 the -C(=X)NH₂ group (e.g.,
 phenoxyalkylamides, etc.)</p> <p>339 R is acyclic</p> <p>340 Halogen bonded directly to
 carbon in R (e.g.,
 chloroacetamides, etc.)</p> <p>341 Benzene ring bonded
 directly to the carboxamide or
 thiocarboxamide nitrogen</p> <p>342 The carboxamide or
 thiocarboxamide nitrogen and a
 chalcogen are directly
 attached to the same acyclic
 carbon or acyclic carbon chain</p> <p>343 ...Nitrogen double bonded
 directly to carbon</p> <p>344 ...Oximes (i.e., HCN=N-OH,
 wherein substitution may be
 made for hydrogen only)</p> <p>345 ...Quaternary ammonium containing</p> <p>346 ...Containing -N=N-, -NH-NH-, or
 -NH-X-, wherein X is chalcogen
 and substitution may be made
 for hydrogen only</p> <p>347 ...The nitrogen and a nitro group
 bonded directly to the same
 benzene ring (e.g.,
 nitroanilines, etc.)</p> <p>348 ..Ketones or aldehydes</p> <p>349 ..Sulfur, selenium, or tellurium
 compound (e.g., thioalcohols,
 mercaptans, etc.)</p> <p>350 ..Chalcogen bonded directly to
 sulfur (e.g., sulfones, etc.)</p> <p>351 ..Ethers</p> <p>352 ...Plural benzene rings bonded
 directly to the same oxygen</p> <p>353 ..Hydroxy bonded directly to
 carbon (H of -OH may be
 replaced by a substituted or
 unsubstituted ammonium ion or
 a Group IA or IIA light metal)</p> <p>354 ...Benzene ring containing</p> <p>355 ..Nitro containing (e.g.,
 nitrobenzenes, etc.)</p> | <p>356 ..Halogenated hydrocarbons</p> <p>357 ..Hydrocarbons</p> <p>358 ..Designated nonactive ingredient
 containing</p> <p>359 ..Microencapsulating or
 encapsulating agent</p> <p>360 ..Solid resin containing (e.g.,
 film-forming resins, etc.)</p> <p>361 ...The resin is derived from
 ethylenically unsaturated
 monomer only (e.g., addition
 resins, natural rubbers, etc.)</p> <p>362 ..Liquid carrier containing
 (e.g., water, hydrocarbon,
 etc.)</p> <p>363 ...Emulsion or foam (i.e., liquid
 continuous phase, and liquid
 or gas discontinuous phase)</p> <p>364 ...Emulsifier or foaming agent
 containing a sulfonic acid, a
 metal salt thereof, or an
 unsubstituted or N-
 monosubstituted amide thereof</p> <p>365 ...Organic nitrogen containing
 solvent, emulsifier, or
 foaming agent of formula
 R₁N(R₂)₂</p> <p>366 ...Gel (i.e., a colloidal
 solution of a liquid in a
 solid</p> <p>367 ..Granular or pulverulent
 designated nonactive
 ingredient containing</p> |
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