

# Index

## ACARICIDES

Generally, **App A**

## ACETANILIDES

Herbicides, **15:4**

## ACTIVATORS

Insecticides, **13:38**

## ADDITIVITY

Nontarget species and toxicity of pesticides, **20:4**

## AEROSOLS

Identifying pesticides and finding information,  
**11:17**

## AGENT ORANGE

History of pesticide regulation, **1:3**

## AGGREGATE EXPOSURE

Food Quality Protection Act of 1996, **3:13**

## AGRICULTURAL ARTHROPODS

Nontarget Species (this index)

## AGRICULTURAL PESTICIDE EXPERTS

Generally, **22:2**

## AGRICULTURE COLLEGES

Directory of colleges of agriculture in state land  
grant universities, **App E**

## ALCOHOLS

Biocides, **16:31**

## ALDEHYDES

Biocides, **16:38**

## ALGAE

Generally, **1:2**

## ALGICIDES

Generally, **16:17-16:21**

Chlorines, **16:18**

Copper compounds, **16:19**

Inorganic chlorines, **16:18**

Organic compounds, generally, **16:21**

Quaternary ammonium halides, **16:20**

## ALIPHATIC DERIVATIVES

Insecticides, **13:8**

## ALKYLATING AGENTS

Mode of chemical action, **12:16**

## ALLEY CATS

Generally, **1:2**

## AMIDES

Herbicides, **15:5**

## ANIMALS

Generally, **1:2**

Causation, animal studies, **7:9-7:11**

Nontarget species, pesticide effects on pets, **20:8**

## ANNELIDS

Nontarget species, toxicity of pesticides, **20:13**

## ANTAGONISM

Nontarget species and toxicity of pesticides, **20:4**

## ANTIBIOTICS

Fungicides and bactericides, **16:16**

Insecticides, **13:39**

## ANTIMICROBIAL PESTICIDES

Food Quality Protection Act of 1996, registration,  
**3:20**

## ANTIMICROBIALS

Biocides (this index)

## ANTIMYCIN

Piscicides, **14:17**

## ANTS

Generally, **1:2**

## APHIDS

Generally, **1:2**

## APPLICATION OF PESTICIDES

Federal Insecticide, Fungicide and Rodenticide  
Act, exposure, **2:12**

Safe handling and storage, **21:4**

## APPLICATORS

Federal Insecticide, Fungicide and Rodenticide  
Act, **2:12, 2:23**

## AQUATIC MICROORGANISMS

Nontarget species, toxicity of pesticides, **20:15**

## AQUATIC PLANTS

Irrigation, **1:2**

## AQUATIC SPECIES

Piscicides (this index)

## AROMATICS

Fungicides and bactericides, **16:7**

## ARSENICALS

Herbicides, **15:6**

**ARTHROPODS**

Nontarget Species (this index)

**ARYLALIPHATIC ACIDS**

Herbicides, 12:21

**ARYLOXYPHENOXY PROPRIONATES**

Herbicides, 15:19

**AUXINS**

Mode of chemical action, auxin-like effects,  
12:20-12:22

Plant growth regulators, 15:34

**AVICIDES**

Generally, 14:7-14:11

Chemosterilant, 14:11, 14:13

Diagram of chemicals controlling vertebrates,  
App 14D

Perch treatments, 14:9

Repellents, 14:8

Stressing agents, 14:14

Table of chemicals controlling vertebrates, App  
14T

Toxic baits, 14:10

**AXONIC POISONS**

Mode of chemical action, 12:9

**BACTERIA**

Generally, 1:2

Biorational pesticides, 17:4

Fungicides and Bactericides (this index)

**BACTO-FUNGICIDES**

Biorational pesticides, 17:15

**BEETLES**

Generally, 1:2

**BENZOIC ACIDS**

Herbicides, 15:7

**BENZOICS**

Herbicides, 12:21

**BENZONITRILES**

Herbicides, 15:8

**BENZOTHIADIAZOLES**

Herbicides, 15:9

**BENZOYLUREAS**

Insecticides, 13:27

**BIOACCUMULATION**

Nontarget species and toxicity of pesticides, 20:3

**BIOCIDES**

Generally, 16:22-16:39

Alcohols, 16:31

Aldehydes, 16:38

Bromine, 16:29

**BIOCIDES—Cont'd**

Chlorine, 16:25

Copper, 16:34

Fluorine, 16:29

Halogens, 16:24-16:29

Heavy metals, 16:32-16:36

Iodine, 16:28

Mercury, 16:33

Peroxides, 16:30

Phenols, 16:23

Quaternary ammonium compounds and  
detergents, 16:20, 16:37

Silver, 16:35

Wood preservatives, 16:39

Zinc, 16:36

**BIOCONCENTRATION**

Nontarget species and toxicity of pesticides, 20:3

**BIOMAGNIFICATION**

Nontarget species and toxicity of pesticides, 20:3

**BIORATIONAL PESTICIDES**

Generally, 17:1 et seq.

Bacteria, 17:4

Bacto-fungicides, 17:15

Diagrams, App 17D

Fungi, 17:6

Fungicides, 17:14-17:16

Herbicides, 17:12, 17:13

Microbials, 17:3-17:8

Miscellaneous Biopesticides, 17:16

Myco-fungicides, 17:14

Myco-herbicides, 17:13

Nematodes, 17:8

Protozoa, 17:7

Tables, App 17T

Viruses, 17:5

**BIPYRIDYLIUMS**

Defoliants and desiccants, 15:47

Herbicides, 15:10

**BIRDS**

Generally, 1:2

Avicides (this index)

**BOTANICALS**

Insecticides, 13:17-13:25

**BREAKFAST CEREALS**

Beetles, 1:2

**BROMINE**

Biocides, 16:29

**BULK SELLER DEFENSE**

Generally, 6:4

## INDEX

### CALIFORNIA TEST

Strict liability in tort, **5:12**

### CANCELLATIONS

Toxicity and hazards of pesticides, cancellations and reduced-use patterns for pesticides, **19:7**

### CANCER

History of pesticide regulation, **1:3**

### CARBAMATES

Herbicides, **15:11**  
Insecticides, **13:12**  
Nematicides, **13:48**

### CARBANILATES

Herbicides, **15:11**

### CARBARYL

History of pesticide regulation, **1:3**

### CARBOXYLIC ACIDS

Herbicides, **12:22, 15:26**

### CATEGORIES OF EXPERTS

Generally, **22:3**

### CATEGORIES OF TOXICITY

Toxicity and hazards of pesticides, **19:4**

### CATERPILLARS

Generally, **1:2**

### CATS

Generally, **1:2**

### CAUSATION

Generally, **7:1 et seq.**  
Animal studies, **7:9-7:11**  
Epidemiological links, generally, **7:6**  
Epidemiology, **7:3-7:8**  
Evidence, **7:2, 7:8**  
Federal Insecticide, Fungicide and Rodenticide Act, reporting adverse effects, **4:14**  
Limited use, animal studies admitted for, **7:11**  
Particularistic proof, epidemiology, **7:8**  
Reliability, **7:5**  
Statistical association, epidemiology, **7:4**  
“Strong” and “weak” causal relationships, **7:7**

### CERCLA EXCEPTIONS

Defenses, **6:12**  
Pesticide exception to CERCLA, effective use of, **App F**

### CEREALS

Beetles, **1:2**

### CERTIFICATES AND CERTIFICATION

Federal Insecticide, Fungicide and Rodenticide Act, certification of product’s chemistry, **2:7**

### CHEMICALS CONTROLLING MICROORGANISMS

Diagrams, **App 16A**

### CHEMICALS CONTROLLING VERTEBRATES

Diagrams, **App 14A**  
Table, **App 14B**

### CHEMOSTERILANT

Avicides, **14:13**

### CHIGGERS

Generally, **1:2**

### CHILDREN AND INFANTS

Generally, **1:3**  
Food Quality Protection Act of 1996, **3:11**

### CHLORINE

Algicides, **16:18**  
Biocides, **16:25**

### CHLOROACETAMIDES

Herbicides, **15:4**

### CITRIC ACID CYCLE

Mode of chemical, **12:13**

### CLASS ACTIONS

Medical monitoring claims, **9:9**

### CLASS OR CLASSIFICATION

Food Quality Protection Act of 1996, **3:4-3:6**

### COCKROACHES

Generally, **1:2**

### COLLEGES AND UNIVERSITIES

Directory of colleges of agriculture in state land grant universities, **App E**

### COMMERCIAL CODE

Defenses (this index)

### COMMON MECHANISM OF TOXICITY

Food Quality Protection Act of 1996, **3:13**

### COMPARATIVE SYMPTOMOLOGY

Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:20**

### CONFIDENTIAL INFORMATION

Federal Insecticide, Fungicide and Rodenticide Act, reporting adverse effects to EPA, **4:7**

### CONSUMER EXPECTATION TEST

Strict liability in tort, **5:9**

### CONTAINERS

Safe handling and storage, disposing of pesticide containers, **21:7, 21:8**

### COPPER AND COPPER COMPOUNDS

Algicides, **16:19**

**COPPER AND COPPER COMPOUNDS****—Cont'd**Biocides, **16:34**Fungicides and bactericides, **16:3****CROPS**Daubert v. Merrell-Dow Pharmaceuticals, Inc.,  
crop injury claims, **8:19-21**Discovery, crop injury cases, **10:7****Herbicides** (this index)**CYCLODIENES**Insecticides, **13:5****CYCLOHEXENONES**Herbicides, **15:13****CYTOKININS**Plant growth regulators, **15:36****CYTOLYTIC TOXINS**Mode of chemical action, **12:14****DATA MINING**Food Quality Protection Act of 1996, **3:14****DAUBERT v. MERRELL-DOW  
PHARMACEUTICALS, INC.**Generally, **8:1 et seq.**Comparative symptomology, **8:20**Conclusion, **8:25**Consequence distinct from sequence, temporary  
fallacy, **8:13**

Crop injury claims

generally, **8:19**“drift” cases, **8:21**E.I. du Pont de Nemours and Co., Inc. v.  
Robinson, comparative symptomology,  
**8:20**“Drift” cases, **8:21**Dursban cases, **8:12**E.I. DuPont de Nemours and Co. v. Robinson,  
**8:20**

Evidence

exclusion of evidence, **8:17, 8:18, 8:22-8:24**federal rules of evidence, **8:4**minimum evidence requirement, **8:15**relevance, **8:7**sufficiency of scientific evidence, challenging,  
**8:16**Exclusion of evidence, **8:17, 8:18, 8:22-8:24**Experts, exclusion of, **8:18, 8:22-8:24**Exposure and symptoms, temporal relationship  
between, **8:13**Federal rules of evidence, **8:4**Frye standard, **8:3**General Electric v. Joiner, **8:8**Hearings, exclusion of experts, **8:22**Kuhmo Tire v. Carmichael, **8:9****DAUBERT v. MERRELL-DOW****PHARMACEUTICALS, INC.—Cont'd**Medical diagnoses, exclusion of unrecognized,  
**8:17**Minimum evidence requirement, **8:15**Preserving Daubert issues for appeal, **8:24**Relevance, **8:7**Rule 706 panels, **8:23**Schmaltz v. Norfolk & Western Railway Corp.,  
**8:14**Scientific reliability, **8:6, 8:14**Sequence is not consequence, temporal fallacy,  
**8:13**Sorensen v. Shaklee, **8:15**Sufficiency of scientific evidence, challenging,  
**8:16**Symptomology, **8:20**Temporal fallacy, sequence is not consequence,  
**8:13**Toxic tort cases, generally, **8:11 et seq.**Trends forward, **8:10**Unrecognized medical diagnoses, **8:17****DDT AND ITS RELATIVES**Insecticides, **13:3****DEFENSES**Generally, **6:1 et seq.**Bulk seller defense, **6:4**CERCLA exceptions, **6:12**Commercial Code. Uniform Commercial Code,  
belowDisclaimers of warranties, **6:9**Economic loss doctrine, **6:8**Federal Insecticide, Fungicide and Rodenticide  
Act, preemption defense, **6:2**FIFRA preemption defense, **6:2**Instructions on label, failure to follow, **6:11**Label instructions, failure to follow, **6:11**Learned intermediary defense, **6:3**Limitation of actions, **6:6**Limitations of liability, **6:9**Notice, failure of, **6:10**Preemption defense, **6:2**Repose, statutes of, **6:7**Sophisticated user defense, **6:3**State-of-the-art defense, **6:5**Statutes of limitation, **6:6**Statutes of repose, **6:7**

Uniform Commercial Code

disclaimers of warranties and limitations of  
liability, **6:9**notice, failure of, **6:10**Warranties, disclaimers of, **6:9****DEFOLIANTS AND DESICCANTS**Generally, **15:39-15:52**

**DEFOLIANTS AND DESICCANTS—Cont'd**

- Bipyridyliums, **15:47**
- Inorganic defoliants and desiccants, **15:41, 15:46**
- Miscellaneous, **15:44**
- Organophosphates, **15:43**
- Paraquat, **15:42**

**DELANEY CLAUSE**

- Food Quality Protection Act of 1996, **3:4-3:6**

**DESIGN DEFECTS**

- Strict liability in tort, **5:8-5:14**

**DEVELOPMENT OF NEW PESTICIDES**

- Federal Insecticide, Fungicide and Rodenticide Act, **2:2**

**DIAGRAMS**

- Biorational pesticides, **App 17D**
- Identifying pesticides, **App 11D**
- Invertebrate control, **App 13D**
- Microorganism control, **App 16D**
- Mode of chemical action, **App 12D**
- Plant control, **App 15D**
- Resistance to fungicides, **App 18D**
- Safe handling and storage of pesticides, **App 21D**
- Toxicity and hazards, **App 19D**
- Vertebrates, diagram of chemicals controlling, **App 14D**

**DINITRONILINES**

- Herbicides, **15:14**

**DINITROPHENOLS**

- Herbicides, **15:15**
- Insecticides, **13:15**

**DIPHENYL ETHERS**

- Herbicides, **15:16**

**DIRECTORY OF COLLEGES OF  
AGRICULTURE IN STATE LAND  
GRANT UNIVERSITIES**

- Generally, **App E**

**DISCLAIMER**

- Defenses, disclaimers of warranties, **6:9**

**DISCOVERY**

- Generally, **10:1 et seq.**
- Application of product, **10:4**
- Crop injury cases, **10:7**
- Expert discovery, **10:8**
- Initial investigation, **10:2, 10:3**
- Investigation, **10:2, 10:3**
- Lone Pine Orders, **10:9**
- Personal injury cases, **10:6**
- Phased discovery, **10:9**
- Plaintiff's discovery, **10:5-10:9**

**DISEASE TRANSMITTING INSECTS**

- Generally, **1:2**

**DISINFECTANTS**

- Generally, **1:2**
- Biocides** (this index)

**DISPOSAL REQUIREMENTS**

- Federal Insecticide, Fungicide and Rodenticide Act, **2:26**
- History of pesticide regulation, **1:3**
- Safe handling and storage, disposing of pesticide containers, **21:7**

**DITHIOCARBAMATES**

- Fungicides and bactericides, **16:5**

**D-LIMONENE**

- Insecticides, **13:22**

**DOGS**

- Generally, **1:2**

**DOMESTIC ANIMALS**

- Nontarget species, pesticide effects on pets, **20:8**

**DRAINAGE DITCHES**

- Aquatic plants, **1:2**

**“DRIFT”**

- Daubert v. Merrell-Dow Pharmaceuticals, Inc., crop injury cases, **8:21**
- Federal Insecticide, Fungicide and Rodenticide Act, pesticide spray drift evaluation, **2:13**

**DURSBAN CASES**

- Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:12**

**DUSTS**

- Identifying pesticides and finding information, **11:16**

**EBDCs**

- Fungicides and bactericides, **16:5**

**ECONOMIC LOSS DOCTRINE**

- Defenses, **6:8**

**E.I. DUPONT DE NEMOURS AND CO. v.  
ROBINSON**

- Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:20**

**ELECTRON TRANSPORT CHAIN  
INHIBITORS**

- Mode of chemical action, **12:23, 12:26**

**EMERGENCIES**

- Safe handling and storage of pesticides, **21:10**

**EMERGENCY SUSPENSION ORDERS**

- Food Quality Protection Act of 1996, registration, **3:24**

**EMULSIFIABLE CONCENTRATES**

Identifying pesticides and finding information, **11:6**

**ENVIRONMENTAL MATTERS**

**Federal Insecticide, Fungicide and Rodenticide Act** (this index)

Food Quality Protection Act of 1996, EPA implementation, **3:7**

History of pesticide regulation, **1:3**

**EPIDEMIOLOGY**

Causation, **7:3-7:8**

**ETHYLENEBIS-DITHIOCARBAMATES**

Fungicides and bactericides, **16:5**

**ETHYLENE GENERATORS**

Plant growth regulators, **15:37**

**ETIOLOGY**

*Daubert v. Merrell-Dow Pharmaceuticals, Inc.*, exclusion of medical diagnoses with unknown etiology, **8:17**

**EVIDENCE**

Causation, **7:2, 7:8**

**Daubert v. Merrell-Dow Pharmaceuticals, Inc.** (this index)

**Discovery** (this index)

**EXCEPTIONS**

**Exemptions and Exceptions** (this index)

**EXCLUSION OF EVIDENCE**

*Daubert v. Merrell-Dow Pharmaceuticals, Inc.*, **8:17, 8:18, 8:22-8:24**

**EXEMPTIONS AND EXCEPTIONS**

**CERCLA Exceptions** (this index)

Food Quality Protection Act of 1996, exemptions to tolerances, **3:9, 3:15- 3:17**

**EXPERIMENTAL USE**

Federal Insecticide, Fungicide and Rodenticide Act, **2:2**

**EXPERT DISCOVERY**

Generally, **10:8**

**EXPERTS**

Generally, **22:1 et seq.**

Agricultural pesticide experts, **22:2**

Categories of experts, **22:3**

*Daubert v. Merrell-Dow Pharmaceuticals, Inc.*, exclusion of experts, **8:18, 8:22-8:24**

Finding experts, generally, **22:1-22:4**

Pesticide residue analysis, **22:4**

Residue analysis, **22:4**

Table: finding pesticide experts, **App 22T**

**FEAR OF FUTURE DISEASE CLAIMS**

Novel damage claims, **9:2-9:6**

**FECAL MATTER**

Generally, **1:2**

**FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT**

Generally, **2:1 et seq.**

Antimicrobials, manufacturers and manufacturing, **2:16**

Applicators

human exposure, **2:12**

requirements for, **2:23**

Biopesticides, manufacturers and manufacturing, **2:16**

Causation, reporting adverse effects, **4:14**

Certification of product's chemistry, **2:7**

Confidential information, reporting adverse effects to EPA, **4:7**

Development of new pesticides, **2:2**

Disposal requirements, **2:26**

Environmental matters

manufacturers, environmental fate, **2:14**

reporting adverse effects to EPA, **4:6-4:8**

Experimental use, **2:2**

Exposure, applicator and post-application, **2:12**

Field reentry protection, **2:25**

**Food Quality Protection Act of 1996** (this index)

Formulators, requirements for, **2:22**

Fraud on the EPA/consumer, **4:15**

History of pesticide regulation, **1:3**

Human exposure, applicator and post-application, **2:12**

Initial screening, **2:2**

Labels and labeling

manufacturers, **2:20**

user requirements, **2:24**

Manufacturers and manufacturing

antimicrobials, **2:16**

applicator human exposure, **2:12**

biopesticides, **2:16**

certification of product's chemistry, **2:7**

environmental fate, **2:14**

generally, **2:5-2:20**

human exposure, applicator and post application, **2:12**

labeling obligations, **2:20**

miscellaneous testing requirements, **2:17**

nontarget organisms, hazards to, **2:11**

packaging, **2:21**

performance data, **2:9**

pesticide spray drift evaluation, **2:13**

post-application human exposure, **2:12**

product performance data, **2:9**



**FEDERAL INSECTICIDE, FUNGICIDE AND RODENTICIDE ACT—Cont'd**

- Manufacturers and manufacturing—Cont'd
  - record keeping requirements, **2:18**
  - registration of establishments, **2:6**
  - reporting adverse effects, **2:19**
  - residue chemistry, **2:15**
  - tests and citing of test data, **2:8-2:16**
  - toxicology data, **2:10**
- New pesticides
  - development, **2:2**
  - registration, **2:3**
- Non-reportable information, **4:9**
- Nontarget organisms, hazards to, **2:11**
- Opinions, reporting adverse effects to EPA, **4:6**
- Other information, reporting adverse effects to EPA, **4:8**
- Packaging, **2:21**
- Performance data, **2:9**
- Pesticide spray drift evaluation, **2:13**
- Post-application human exposure, **2:12**
- Preemption defense, **6:2**
- Previously registered pesticides, **2:4**
- Private right of action, reporting adverse effects, **4:13-4:15**
- Privileged information, reporting adverse effects to EPA, **4:7**
- Recordkeeping requirements for manufacturers, **2:18**
- Reentry protection, user requirements, **2:25**
- Registration
  - generally, **1:2, 2:3, 2:4**
  - Food Quality Protection Act of 1996, **3:3**
  - manufacturers, **2:6**
  - new pesticides, **2:3**
  - previously registered pesticides, **2:4**
  - reporting adverse effects, **4:4, 4:5**
- Reporting adverse effects, **2:19, 4:1 et seq.**
- Reporting mechanisms, **4:10, 4:11**
- Residue chemistry, **2:15**
- Sanctions for violation of reporting adverse effects, **4:12**
- Screening, **2:2**
- Spray drift evaluation, **2:13**
- Storage requirements, **2:26**
- Tests and testing
  - manufacturers, **2:8-2:16**
  - preemption defense, **2:8-2:16**
- Toxicology data, **2:10**
- Users, requirements for, **2:24, 2:25**

**FEDERAL RULES OF EVIDENCE**

- Daubert v. Merrell-Dow Pharmaceuticals, Inc.*, **8:4**

**FFDCA'S TWO-TIERED CLASSIFICATION**

- Food Quality Protection Act of 1996, **3:4-3:6**

**FIELD REENTRY PROTECTION**

- Federal Insecticide, Fungicide and Rodenticide Act, **2:25**

**FIELD REENTRY SAFETY INTERVALS**

- Toxicity and hazards of pesticides, **19:5**

**FIFRA**

- Federal Insecticide, Fungicide and Rodenticide Act** (this index)

**FINDING EXPERTS**

- Experts** (this index)

**FIPROLES**

- Insecticides, **13:30**

**FISH**

- Piscicides** (this index)

**FLEA POWDERS**

- Generally, **1:2**

**FLIES**

- Generally, **1:2**

**FLOWABLE OR SPRAYABLE SUSPENSIONS**

- Identifying pesticides and finding information, **11:12**

**FLUORINE**

- Biocides, **16:29**

**FOAMS**

- Identifying pesticides and finding information, **11:15**

**FOGGING CONCENTRATES**

- Identifying pesticides and finding information, **11:14**

**FOOD**

- Generally, **1:2**
- Food Quality Protection Act of 1996** (this index)
- History of pesticide regulation, **1:3**

**FOOD QUALITY PROTECTION ACT OF 1996**

- Generally, **3:1 et seq.**
- Aggregate exposure, **3:13**
- Antimicrobial pesticides, registration of, **3:20**
- Children and infants, specific protection of, **3:11**
- Classification, **3:4-3:6**
- Common mechanism of toxicity, **3:13**
- Data mining, **3:14**
- Delaney clause, **3:4-3:6**
- Difficulties in implementation, **3:12-3:14**
- Emergency suspension orders, registration, **3:24**
- EPA implementation, **3:7**
- Exemptions to tolerance, **3:9, 3:15- 3:17**

## **FOOD QUALITY PROTECTION ACT OF 1996—Cont'd**

- Federal Insecticide, Fungicide and Rodenticide Act
  - period review of existing tolerances and exemptions, **3:16**
  - registration requirements, **3:3**
- FFDCA's two-tiered classification, **3:4-3:6**
- Infants, specific protection of, **3:11**
- Les v. Reilly, **3:7**
- Limited exemption to tolerance standard, **3:9**
- Local regulation of pesticides restricted, **3:25**
- Minor use pesticides, registration, **3:19**
- Periodic review of existing tolerances and exemptions, **3:15-3:17**
- Pre-FQPA regulatory regime, **3:2-3:7**
- Public health pesticides, registration of, **3:21**
- Reduced risk pesticides, registration of, **3:22**
- Registration
  - generally, **3:18-3:25**
  - antimicrobial pesticides, **3:20**
  - emergency suspension orders, **3:24**
  - Federal Insecticide, Fungicide and Rodenticide Act, **3:3**
  - local regulation of pesticides restricted, **3:25**
  - minor use pesticides, **3:19**
  - public health pesticides, **3:21**
  - reduced risk pesticides, **3:22**
  - sterilant products, **3:23**
- Re-review and periodic review of existing tolerances and exemptions, **3:15-3:17**
- Review of existing tolerances and exemptions, **3:15-3:17**
- Science review board, **3:17**
- Specific criteria used to determine tolerances, **3:10**
- Sterilant products, registration of, **3:23**
- Suspension orders, registration, **3:24**
- Tolerances, **3:8-3:10, 3:15-3:17**
- Two-tiered classification, **3:4-3:6**

## **FORMAMIDINES**

- Insecticides, **13:13**

## **FORMULAS AND FORMULATIONS**

- Federal Insecticide, Fungicide and Rodenticide Act, **2:22**
- Identifying pesticides and finding information, **11:2, 11:5-11:20**

## **FQPA**

- Food Quality Protection Act of 1996** (this index)

## **FRAUD**

- See also **Misrepresentation** (this index)
- Federal Insecticide, Fungicide and Rodenticide Act, fraud on the EPA/consumer, **4:15**

## **FRAUD—Cont'd**

- Strict liability in tort, **5:3**

## **FRUIT TREES**

- Generally, **1:2**

## **FRYE STANDARD**

- Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:3**

## **FUMIGANTS**

- Fungicides and bactericides, **16:15**
- Identifying pesticides and finding information, **11:19**
- Insecticides, **13:40**

## **FUNGI**

- Generally, **1:2**
- Biorational pesticides, **17:6**
- Fungicides and Bactericides** (this index)

## **FUNGICIDES AND BACTERICIDES**

- Generally, **16:1-16:16, App C**
- See also **Federal Insecticide, Fungicide and Rodenticide Act** (this index)
- Antibiotics, **16:16**
- Aromatics, **16:7**
- Biorational pesticides, **17:14-17:16**
- Copper, **16:3**
- Dithiocarbamates, **16:5**
- EBDCs, **16:5**
- Ethylenebis-dithiocarbamates, **16:5**
- Federal Insecticide, Fungicide and Rodenticide Act** (this index)
- Fumigants, **16:15**
- Guanidines, **16:14**
- Inorganic fungicides, **16:2-16:4**
- Mode of chemical action, **12:20-12:23**
- Morpholines, **16:11**
- Organic fungicides, generally, **16:4-16:14**
- Organotin, **16:13**
- Phtalimides, **16:8**
- Quinones, **16:12**
- Resistance to pesticides, **18:5**
- Strobilurins (methoxy-acrylates), **16:10**
- Substituted aromatics, **16:7**
- Sulfur, **16:2**
- Systemic fungicides, **16:9**
- Thiadiazoles, **16:6**

## **GARDENS**

- Generally, **1:2**

## **GENERAL ELECTRIC v. JOINER**

- Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:8**

## **GENUINENESS**

- Novel damage claims, **9:4**



## **GIBBERELLINS**

Plant growth regulators, **15:35**

## **GLOSSARY**

Generally, **App G**

## **GLYCOLYSIS**

Mode of chemical action, **12:13**

## **GRANULAR PESTICIDES**

Identifying pesticides and finding information, **11:18**

## **GROUNDWATER CONTAMINATION**

History of pesticide regulation, **1:3**

## **GROWTH REGULATORS**

Biorational pesticides, insect growth regulators, **17:11**

Plant control, **15:33-15:38, App C**

## **GUANIDINES**

Fungicides and bactericides, **16:14**

## **HALOGENATED HYDROCARBONS**

Nematicides, **13:45**

## **HALOGENS**

Biocides, **16:24-16:29**

## **HAZARDS OF PESTICIDES**

Generally. **Toxicity and Hazards of Pesticides** (this index)

Handling and storage, **21:8**

## **HEARINGS**

Daubert v. Merrell-Dow Pharmaceuticals, Inc., exclusion of experts, **8:22**

## **HEAVY METALS**

Biocides, **16:32-16:36**

## **HERBICIDES**

As to particular herbicides or plants controlled, see specific index topics

Generally, **15:1-15:32, App B**

Acetanilides, **15:4**

Amides, **15:5**

Arsenicals, **15:6**

Arylaliphatic acids, **12:21**

Aryloxyphenoxy propionates, **15:19**

Benzoic acids, **15:7**

Benzoics, **12:21**

Benzonitriles, **15:8**

Benzothiadiazoles, **15:9**

Biorational herbicides, **17:12, 17:13**

Bipyridyliums, **15:10**

Carbamates, **15:11**

Carboxylic acids (formerly pyridinoxy and picolinic acids), **12:22, 15:26**

Chloroacetamides, **15:4**

Crop tolerance, resistance to pesticides, **18:4**

## **HERBICIDES—Cont'd**

Cyclohexenones, **15:13**

Dinitronilines, **15:14**

Dinitrophenols, **15:15**

Diphenyl ethers, **15:16**

Imidazolinones, **15:17**

Inorganic herbicides, **15:2**

Mode of chemical action, **12:18-12:24**

Nitriles, **15:8**

Nitroanilines, **15:14**

Nontarget species, toxicity of pesticides, **20:17**

Organic herbicides, generally, **15:3-15:32**

Organoarsenicals, **15:6**

Phenoxy acids, **12:20**

Phenoxys, **15:20**

Phenyl-carbamates, **15:12**

Phosphono amino acids, **15:22**

Phthalic acids, **15:23**

Picolinic acids, **12:22**

Pyridazinones, **15:24**

Pyridines, **15:25**

Pyridinoxy and picolinic acids, **12:22**

Resistance to pesticides

crop tolerance, **18:4**

weed tolerance, **18:3**

Safeners, **App B**

Soaps, **15:27**

Sulfonylureas, **15:28**

Thiocarbamates, **15:28, 15:29**

Tolerance. Resistance to pesticides, above

Triazines, **15:30**

Triazinones, **15:31**

Triazolopyrimidines, **15:18**

Uracils, **15:32**

Ureas, **15:21**

Weed tolerance, resistance to pesticides, **18:3**

## **HETEROCYCLIC DERIVATIVES**

Insecticides, **13:10**

## **HEXACHLOROCYCLOHEXANE (HCH)**

Insecticides, **13:4**

## **HISTORY OF PESTICIDE REGULATION**

Generally, **1:3**

## **HUMANS**

Federal Insecticide, Fungicide and Rodenticide Act, human exposure, **2:12**

Toxicity and hazards of pesticides, effects of pesticides on humans, **19:2, 19:3**

## **IDENTIFYING PESTICIDES AND FINDING INFORMATION**

Generally, **11:1 et seq.**

Aerosols, **11:17**

Diagrams, **App 11D**

Different identities of pesticides, **11:4**

**IDENTIFYING PESTICIDES AND FINDING INFORMATION—Cont'd**

- Dusts, **11:16**
- Emulsifiable concentrates, **11:6**
- Flowable or sprayable suspensions, **11:12**
- Foams, **11:15**
- Fogging concentrates, **11:14**
- Formulas and formulations, **11:2, 11:5-11:20**
- Fumigants, **11:19**
- Granular pesticides, **11:18**
- Miscellaneous formulations, **11:20**
- Oil solutions, **11:10**
- Required basic chemistry, **11:1**
- Soluble pellets, **11:11**
- Sprayable suspensions, **11:12**
- Tables, **App 11T**
- Ultralow-volume concentrates, **11:13**
- Understanding and using vocabulary of pesticides, **11:3**
- Water-miscible liquids, **11:7**
- Water-soluble powders, **11:9**
- Wettable powders, **11:8**

**IMIDAZOLINONES**

- Herbicides, **15:17**

**IMPACT RULE**

- Novel damage claims, **9:5**

**INCREASED RISK OF DISEASE**

- Novel damage claims, **9:7**

**INFANTS**

- Children and Infants** (this index)

**INHIBITORS AND RETARDANTS**

- Electron transport chain inhibitors, **12:23, 12:26**
- Metabolic inhibitors, **12:11-12:13, 12:20-12:23**
- Mitochondrial electron transport inhibitors, **12:11**
- Nucleic acid metabolism and protein synthesis inhibitors, **12:22**
- Plant growth regulators, **15:38**
- Polysubstrate monooxygenases inhibitors, **12:12**
- Protein synthesis inhibitors, **12:22**
- Sterol synthesis inhibitors, **12:23**

**INITIAL INVESTIGATION**

- Discovery, **10:2, 10:3**

**INITIAL SCREENING**

- Federal Insecticide, Fungicide and Rodenticide Act, **2:2**

**INORGANICS**

- Algicides, inorganic chlorines, **16:18**
- Defoliants and desiccants, **15:41, 15:46**
- Fungicides, **16:2-16:4**
- Herbicides, **15:2**
- Insecticides, **13:42**

**INSECT GROWTH REGULATORS**

- Generally, **App A**

**INSECTICIDES**

- As to particular insecticides or insects controlled, see specific index topics

- Generally, **13:1 et seq., App A**

- Activators, **13:38**
- Aliphatic derivatives, **13:8**
- Antibiotics, **13:39**
- Benzoylureas, **13:27**
- Biorational pesticides
  - growth regulators, **17:11**
  - pheromones, **17:10**
  - plant-incorporated protectants, **17:9**
- Botanicals, **13:17-13:25**
- Carbamates, **13:12**
- Cyclodienes, **13:5**
- DDT and its relatives, **13:3**
- Diagrams of chemicals controlling invertebrates, **App 13D**
- Dinitrophenols, **13:15**
- D-Limonene, **13:22**
- Federal Insecticide, Fungicide and Rodenticide Act** (this index)
- Fiproles, **13:30**
- Formamidines, **13:13**
- Fumigants, **13:40**
- Heterocyclic derivatives, **13:10**
- Hexachlorocyclohexane (HCH), **13:4**
- Inorganics, **13:42**
- Jobba and rosemary oils, **13:24**
- Limonene or d-Limonene, **13:22**
- Mode of chemical action, **12:3-12:17**
- Neem, **13:23**
- Nicotine, **13:18**
- Nicotinoids, **13:28**
- Nontarget species, resistance to pesticides, **20:11**
- Nontarget species, toxicity of pesticides, **20:16**
- Organochlorines, **13:2-13:6**
- Organophosphates, **13:7-13:10**
- Organosulfurs, **13:11**
- Organotins, **13:16**
- Phenyl derivatives, **13:9**
- Polychloroterpene insecticides, **13:6**
- Pyrazoles, **13:32**
- Pyrethroids, **13:26**
- Pyrethrum, **13:25**
- Pyridazinones, **13:33**
- Pyrroles, **13:31**
- Quinazolines, **13:34**
- Repellents, **13:41**
- Resistance to pesticides, **18:2**
- Rosemary oils, **13:24**
- Rotenone, **13:19**
- Ryania, **13:21**

**INSECTICIDES—Cont'd**

Sabadilla, **13:20**  
Soaps, **13:37**  
Spinosyns, **13:29**  
Sulfoximines, **13:36**  
Synergists, **13:38**  
Tetronic acids, **13:35**  
Thiocyanates, **13:14**

**INSTRUCTIONS**

Defenses, failure to follow label instructions,  
**6:11**

**INVERTEBRATE CONTROL**

Diagrams of chemicals controlling invertebrates,  
**App 13D**  
**Insecticides** (this index)  
Molluscicides, **13:43**  
**Nematicides** (this index)

**INVESTIGATION**

Discovery, **10:2, 10:3**

**IODINE**

Biocides, **16:28**

**IRRIGATION**

Aquatic plants, **1:2**

**ISOTHIOCYANATES**

Nematicides, **13:46**

**JOJOBA**

Insecticides, jojoba and rosemary oils, **13:24**

**KUHMO TIRE v. CARMICHAEL**

Daubert v. Merrell-Dow Pharmaceuticals, Inc.,  
**8:9**

**LABELS AND LABELING**

Defenses, failure to follow label instructions,  
**6:11**  
**Federal Insecticide, Fungicide and  
Rodenticide Act** (this index)  
History of pesticide regulation, **1:3**  
Safe handling and storage of pesticides, **21:9**  
Toxicity and hazards of pesticides, **19:4**

**LAND GRANT UNIVERSITIES**

Directory of colleges of agriculture in state land  
grant universities, **App E**

**LAWNS**

Generally, **1:2**

**LEARNED INTERMEDIARY DEFENSE**

Generally, **6:3**

**LEATHER GOODS**

Beetles, **1:2**

**LES v. REILLY**

Food Quality Protection Act of 1996, **3:7**

**LIMITATION OF ACTIONS**

Defenses, **6:6**

**LIMITATIONS OF LIABILITY**

Defenses, **6:9**

**LIMITED EXEMPTION**

Food Quality Protection Act of 1996, limited  
exemption to tolerance standard, **3:9**

**LIMITED USE**

Causation, animal studies, **7:11**  
**Toxicity and Hazards of Pesticides** (this index)

**LIMONENE OR D-LIMONENE**

Insecticides, **13:22**

**LIVER ENZYME INDUCTION**

Nontarget species and toxicity of pesticides, **20:6**

**LOCAL REGULATION**

Food Quality Protection Act of 1996, pesticides,  
**3:25**

**LOCATING EXPERTS**

**Experts** (this index)

**LONE PINE ORDERS**

Discovery, **10:9**

**MANUFACTURERS AND MANUFACTURING**

**Federal Insecticide, Fungicide and  
Rodenticide Act** (this index)  
Strict liability in tort, **5:7, 5:10**

**MEDICAL DIAGNOSES**

Daubert v. Merrell-Dow Pharmaceuticals, Inc.,  
exclusion of unrecognized medical  
diagnoses, **8:17**

**MEDICAL MONITORING CLAIMS**

Class actions, **9:9**  
Novel damage claims, **9:8**

**MERCURY**

Biocides, **16:33**

**METABOLIC INHIBITORS**

Mode of chemical action, **12:11-12:13, 12:20-  
12:23**

**METHOXY-ACRYLATES**

Fungicides and bactericides, **16:10**

**MICE**

Generally, **1:2**

**MICROBIALS**

Biorational pesticides, **17:3-17:8**

**MICROORGANISM CONTROL**

**Algicides** (this index)  
**Biocides** (this index)  
Diagrams, **App 16D**

**MICROORGANISM CONTROL—Cont'd**

**Fungicides and Bactericides** (this index)  
Tables, **App 16T**

**MICROORGANISMS**

Aquatic microorganisms and plankton, **20:15**  
Nontarget species, toxicity of pesticides, **20:14, 20:15**

**MILDEW CONTROL**

Generally, **1:2**

**MILLER AMENDMENT**

History of pesticide regulation, **1:3**

**MINIMUM EVIDENCE REQUIREMENT**

Daubert v. Merrell-Dow Pharmaceuticals, Inc.,  
**8:15**

**MINORS**

**Children and Infants** (this index)

**MINOR USE PESTICIDES**

Food Quality Protection Act of 1996, registration,  
**3:19**

**MISREPRESENTATION**

See also **Fraud** (this index)  
Strict liability in tort, **5:3**  
Theories of liability, **5:18**

**MITES**

Generally, **1:2**

**MITOCHONDRIAL ELECTRON  
TRANSPORT INHIBITORS**

Mode of chemical action, **12:11**

**MIXING**

Safe handling and storage of pesticides, **21:3**

**MODE OF CHEMICAL ACTION**

Generally, **12:1 et seq.**  
Alkylating agents, **12:16**  
Arylalphatic acids, **12:21**  
Auxin-like effects, **12:20-12:22**  
Axonic poisons, **12:9**  
Benzoic or arylalphatic acids, **12:21**  
Carboxylic acids (formerly pyridinoxy and  
picolinic acids), **12:22**  
Citric acid cycle, **12:13**  
Cytolytic toxins, **12:14**  
Diagrams, **App 12D**  
Electron transport chain inhibitors, **12:23, 12:26**  
Explanation of mode of action, **12:2**  
Fungicides, **12:20-12:23**  
Glycolysis, **12:13**  
Herbicides, **12:18-12:24**  
Insecticides, **12:3-12:17**  
Metabolic inhibitors, **12:11-12:13, 12:20-12:23**  
Midgut targets, **12:7**

**MODE OF CHEMICAL ACTION—Cont'd**

Mitochondrial electron transport inhibitors, **12:11**  
Muscle poisons, **12:15**  
Narcotics, **12:6**  
Nerve poisons, **12:6-12:10**  
Nucleic acid metabolism and protein synthesis  
inhibitors, **12:22**  
Phenoxy acids, **12:20**  
Physical toxicants, **12:4, 12:19**  
Polysubstrate monooxygenases inhibitors, **12:12**  
Protein suppression, **12:8**  
Protein synthesis inhibitors, **12:22**  
Protoplasmic poisons, **12:5**  
Pyridinoxy and picolinic acids, **12:22**  
Selective homopteran feeding blockers, **12:17**  
Sterol synthesis inhibitors, **12:23**  
Synaptic poisons, **12:10**

**MOLLUSCICIDES**

Invertebrate control, **13:43, App 13D**

**MORPHOLINES**

Fungicides and bactericides, **16:11**

**MOSQUITOES**

Generally, **1:2**

**MOTHS**

Wool, **1:2**

**MUSCLE POISONS**

Mode of chemical action, **12:15**

**MYCO-FUNGICIDES**

Biorational pesticides, **17:14**

**MYCO-HERBICIDES**

Biorational pesticides, **17:13**

**NARCOTICS**

Mode of chemical action, **12:6**

**NEEM**

Insecticides, **13:23**

**NEGLIGENCE AND NEGLIGENCE PER SE**

Strict liability in tort, **5:4**  
Theories of liability, generally, **5:17**

**NEMATICIDES**

Generally, **13:44-13:51, App A**  
Carbamates, **13:48**  
Diagrams of chemicals controlling invertebrates,  
**App 13D**  
Halogenated hydrocarbons, **13:45**  
Isothiocyanates, **13:46**  
Organophosphates, **13:47**

**NEMATODES**

Generally, **1:2**  
Biorational pesticides, **17:8**

**NEMATODES—Cont'd**

Nematicides (this index)

**NERVE POISONS**

Mode of chemical action, **12:6-12:10**

**NEW PESTICIDES**

Federal Insecticide, Fungicide and  
Rodenticide Act (this index)

**NICLOSAMIDE**

Piscicides, **14:18**

**NICOTINE**

Insecticides, **13:18**

**NICOTINOIDS**

Insecticides, **13:28**

**NITRILES**

Herbicides, **15:8**

**NITROANILINES**

Herbicides, **15:14**

**NONTARGET SPECIES**

Generally, **20:1 et seq., App 20T**

Additivity, **20:4**

Agricultural arthropods

generally, **20:9-20:11**

insecticide resistance, **20:11**

minor pests that become major pests, **20:10**

predators and parasites, **20:9**

Annelids, **20:13**

Antagonism, **20:4**

Aquatic microorganisms and plankton, **20:15**

Arthropods

agricultural arthropods, above

soil organisms, pesticide effects on, **20:14**

Bioaccumulation, **20:3**

Bioconcentration, **20:3**

Biological interactions of nontargets and  
pesticides

generally, **20:2-20:6**

additivity, **20:4**

antagonism, **20:4**

bioaccumulation, **20:3**

bioconcentration, **20:3**

biomagnification, **20:3**

liver enzyme induction, **20:6**

potentiation, **20:5**

synergism, **20:4**

Biomagnification, **20:3**

Domestic animals, pesticide effects on, **20:8**

Federal Insecticide, Fungicide and Rodenticide  
Act, **2:11**

Historical background, **20:1**

Insecticide resistance, **20:11**

Liver enzyme induction, **20:6**

**NONTARGET SPECIES—Cont'd**

Microorganisms, **20:14**

Minor pests that become major pests, **20:10**

Parasites, **20:9**

Pets, pesticide effects on, **20:8**

Plankton, **20:15**

Plants, **20:16, 20:17**

Pollinators, **20:12**

Potentiation, **20:5**

Predators, **20:9**

Resistance to pesticides, **20:11**

Soil organisms, pesticide effects on, **20:13, 20:14**

Summary, **20:18**

Synergism, **20:4**

Table: toxicity to nontarget species, **App 20T**

Toxicity of pesticides. See entries throughout this  
topic

Wildlife, pesticide effects on, **20:7**

**NOTICE**

Defenses, failure to notify, **6:10**

**NOVEL DAMAGE CLAIMS**

Generally, **9:1 et seq.**

Fear of future disease claims, **9:2-9:6**

Genuineness, **9:4**

Impact rule, **9:5**

Increased risk of disease, **9:7**

Medical monitoring claims, **9:8, 9:9**

Medical monitoring class actions, **9:9**

Physical injury requirement, **9:6**

Reasonableness requirement, **9:3**

**NUCLEIC ACID METABOLISM AND  
PROTEIN SYNTHESIS INHIBITORS**

Mode of chemical action, **12:22**

**OIL SOLUTIONS**

Identifying pesticides and finding information,  
**11:10**

**OPINIONS**

Federal Insecticide, Fungicide and Rodenticide  
Act, reporting adverse effects to EPA, **4:6**

**ORGANICS**

Algicides (this index)

Fungicides and Bactericides (this index)

Herbicides (this index)

**ORGANOARSENICALS**

Herbicides, **15:6**

**ORGANOCHLORINES**

Insecticides, **13:2-13:6**

**ORGANOPHOSPHATES**

Defoliants and desiccants, **15:43**

Insecticides, **13:7-13:10**

Nematicides, **13:47**

**ORGANOSULFURS**Insecticides, **13:11****ORGANOTINS**Fungicides and bactericides, **16:13**Insecticides, **13:16****ORNAMENTAL PLANTS**Generally, **1:2****PACKAGING**Federal Insecticide, Fungicide and Rodenticide Act, **2:21****PARAQUAT**Defoliants and desiccants, **15:42****PARASITES**Nontarget species and toxicity of pesticides, **20:9****PARTICULARISTIC PROOF**Causation, epidemiology, **7:8****PEOPLE**Toxicity and hazards of pesticides, effects of pesticides on humans, **19:2, 19:3****PERFORMANCE OF PRODUCT DATA**Federal Insecticide, Fungicide and Rodenticide Act, **2:9****PERIODIC REVIEW**Food Quality Protection Act of 1996, re-review and periodic review of existing tolerances and exemptions, **3:15-3:17****PEROXIDES**Biocides, **16:30****PERSONAL INJURY CASES**Discovery, **10:6****PETS**Nontarget species, pesticide effects on pets, **20:8****PHASED DISCOVERY**Lone Pine Orders, **10:9****PHENOLS**Biocides, **16:23****PHENOXY ACIDS**Herbicides, **12:20****PHENOXY S**Herbicides, **15:20****PHENYL-CARBAMATES**Herbicides, **15:12****PHENYL DERIVATIVES**Insecticides, **13:9****PHEROMONES**Biorational pesticides, **17:10****PHOSPHONO AMINO ACIDS**Herbicides, **15:22****PHTHALIMIDES**Fungicides and bactericides, **16:8****PTHALIC ACIDS**Herbicides, **15:23****PHYSICAL INJURY REQUIREMENT**Novel damage claims, **9:6****PHYSICAL TOXICANTS**Mode of chemical action, **12:4, 12:19****PICOLINIC ACIDS**Herbicides, **12:22****PISCICIDES**Generally, **14:12-14:19**Antimycin, **14:17**

Diagram of chemicals controlling vertebrates,

**App 14D**Niclosamide, **14:14, 14:18**Rotenone, **14:13, 14:16**Table of chemicals controlling vertebrates, **App 14T**TFN, **14:19**TFN, **14:15****PLANKTON**Nontarget species, toxicity of pesticides, **20:15****PLANT CONTROL**

As to particular plants and their control, see more specific topics

Generally, **15:1 et seq.****Defoliants and Desiccants** (this index)Diagrams, **App 15D**Growth regulators, **15:33-15:38, App C****Herbicides** (this index)**PLANT GROWTH REGULATORS**Generally, **App B****PLANT-INCORPORATED PROTECTANTS**Insecticides, **17:9****PLANTS AND PLANT CONTROL**Nontarget species, toxicity of pesticides, **20:16, 20:17****POLLINATORS**Nontarget species and toxicity of pesticides, **20:12****POLYCHLOROTERPENE INSECTICIDES**Generally, **13:6****POLYSUBSTRATE MONOOXYGENASES INHIBITORS**Mode of chemical action, **12:12**



**POTENTIATION**

Nontarget species and toxicity of pesticides, **20:5**

**PREDATORS**

Nontarget species and toxicity of pesticides, **20:9**

**PREEMPTION**

Federal insecticide, Fungicide and Rodenticide Act, defenses, **6:2**

**PREVIOUSLY REGISTERED PESTICIDES**

Federal Insecticide, Fungicide and Rodenticide Act, **2:4**

**PRIVATE RIGHT OF ACTION**

Federal Insecticide, Fungicide and Rodenticide Act, reporting adverse effects, **4:13-4:15**

**PRIVILEGED INFORMATION**

Federal Insecticide, Fungicide and Rodenticide Act, reporting adverse effects to EPA, **4:7**

**PRODUCTS LIABILITY**

Strict liability in tort, Uniform Product Liability Act test, **5:13**

**PROOF**

**Evidence** (this index)

**PROTEIN SYNTHESIS INHIBITORS**

Mode of chemical action, **12:22**

**PROTOPOLASMIC POISONS**

Mode of chemical action, **12:5**

**PROTOZOA**

Biorational pesticides, **17:7**

**PROXIMATE CAUSE**

**Causation** (this index)

**PRUDENT MANUFACTURER TEST**

Strict liability in tort, **5:10**

**PYRAZOLES**

Insecticides, **13:32**

**PYRETHROIDS**

Insecticides, **13:26**

**PYRETHRUM**

Insecticides, **13:25**

**PYRIDAZINONES**

Herbicides, **15:24**  
Insecticides, **13:33**

**PYRIDINES**

Herbicides, **15:25**

**PYRIDINOXY AND PICOLINIC ACIDS**

Herbicides, **12:22**

**PYRROLES**

Insecticides, **13:31**

**QUATERNARY AMMONIUM COMPOUNDS**

Algicides, quaternary ammonium halides, **16:20**  
Biocides, **16:20, 16:37**

**QUINAZOLINES**

Insecticides, **13:34**

**QUINONES**

Fungicides and bactericides, **16:12**

**RAINBOW REPORT**

History of pesticide regulation, **1:3**

**RATS**

Generally, **1:2**

**REASONABLENESS REQUIREMENT**

Novel damage claims, **9:3**

**RECORDS AND RECORDING**

Federal Insecticide, Fungicide and Rodenticide Act, recordkeeping requirements for manufacturers, **2:18**

**REDUCED RISK PESTICIDES**

Food Quality Protection Act of 1996, registration, **3:22**

**REDUCED-USE PATTERNS**

See also **Limited Use** (this index)  
Toxicity and hazards of pesticides, reduced-use patterns for pesticides, **19:7**

**REENTRY PROTECTION**

**Federal Insecticide, Fungicide and Rodenticide Act** (this index)

**REGISTRATION**

**Federal Insecticide, Fungicide and Rodenticide Act** (this index)  
**Food Quality Protection Act of 1996** (this index)

**RELEVANCE**

Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:7**

**RELIABILITY**

Causation, epidemiology, **7:5**

**REPELLENTS**

Insecticides, **13:41**

**REPORTS AND REPORTING**

Adverse effects that must be reported, **4:3-4:5**  
Federal Insecticide, Fungicide and Rodenticide Act, reporting adverse effects, **2:19, 4:1et seq.**  
Imputed to registrant, information, **4:5**  
Information in registrant's possession, **4:4**  
Who must report, **4:2**

**REPOSE, STATUTES OF**

Defenses, **6:7**

**RE-REVIEW**

Food Quality Protection Act of 1996, re-review and periodic review of existing tolerances and exemptions, **3:15-3:17**

**RESIDUE ANALYSIS**

Experts, **22:4**

**RESIDUE CHEMISTRY**

Federal Insecticide, Fungicide and Rodenticide Act, **2:15**

**RES IPSA LOQUITUR**

Theories of liability, **5:19**

**RESISTANCE TO FUNGICIDES**

Diagrams, **App 18D**

**RESISTANCE TO HERBICIDES**

Tables, **App 18T**

**RESISTANCE TO PESTICIDES**

Generally, **18:1 et seq.**

Fungicides, **18:5**

**Herbicides** (this index)

Insecticides, **18:2**

Nontarget species, **20:11**

Rodenticides, **18:6**

**RESTATEMENT (THIRD) OF TORTS**

Strict liability in tort, **5:14**

**RESTRICTED ENTRY INTERVALS**

Toxicity and hazards of pesticides, field reentry safety intervals, **19:5**

**RESTRICTED-USE PESTICIDES**

**Limited Use** (this index)

**RETARDANTS**

**Inhibitors and Retardants** (this index)

**REVIEW**

Food Quality Protection Act of 1996, re-review and periodic review of existing tolerances and exemptions, **3:15-3:17**

**RISK/UTILITY TEST**

Strict liability in tort, **5:11**

**RODENTICIDES**

As to particular rodenticides or rodents controlled, see specific index topics

Generally, **14:1-14:6, App D**

Benzenamines, **14:4**

Botanicals, **14:5**

Coumarins, **14:2**

Diagram of chemicals controlling vertebrates, **App 14D**

**Federal Insecticide, Fungicide and Rodenticide Act** (this index)

Indandiones, **14:3**

**RODENTICIDES—Cont'd**

Miscellaneous rodenticides, **14:6**

Resistance to pesticides, **18:6**

Table of chemicals controlling vertebrates, **App 14T**

**RODENTS**

Generally, **1:2**

**ROSEMARY OILS**

Insecticides, **13:24**

**ROTENONE**

Insecticides, **13:19**

Piscicides, **14:16**

**RULE 706 PANELS**

Daubert v. Merrell-Dow Pharmaceuticals, Inc., exclusion of experts, **8:23**

**RYANIA**

Insecticides, **13:21**

**SABADILLA**

Insecticides, **13:20**

**SAFE HANDLING AND STORAGE**

Generally, **21:1 et seq.**

Application of pesticides, **21:4**

Containers, disposal of, **21:7, 21:8**

Diagrams, **App 21D**

Disposing of pesticide containers, **21:7**

Emergencies, **21:10**

Federal Insecticide, Fungicide and Rodenticide Act, storage requirements, **2:26**

Hazardous containers, **21:8**

Introduction, **21:1**

Labels, **21:9**

Mixing and handling, **21:3**

Selecting pesticides, **21:2**

Shelf life, **21:6**

Storage, generally, **21:5**

Unwanted pesticides and hazardous containers, **21:8**

**SANCTIONS**

Federal Insecticide, Fungicide and Rodenticide Act, violation of reporting adverse effects, **4:12**

**SCHMALTZ v. NORFOLD & WESTERN RAILWAY CORP.**

Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:14**

**SCIENCE REVIEW BOARD**

Food Quality Protection Act of 1996, **3:17**

**SCIENTIFIC RELIABILITY**

Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:6, 8:14**

## INDEX

### SCREENING

Federal Insecticide, Fungicide and Rodenticide Act, **2:2**

### SELECTIVE HOMOPTERAN FEEDING BLOCKERS

Mode of chemical action, **12:17**

### SELECTIVITY

Safe handling and storage of pesticides, **21:2**

### SEVIN

History of pesticide regulation, **1:3**

### SHELF LIFE

Safe handling and storage of pesticides, **21:6**

### SILVER

Biocides, **16:35**

### SLUGS

Generally, **1:2**

### SNAILS

Generally, **1:2**

### SOAPS

Herbicides, **15:27**

Insecticides, **13:37**

### SOD PRODUCERS

Generally, **1:2**

### SOIL ORGANISMS

Nontarget species, pesticide effects on soil organisms, **20:14**

### SOLUBLE PELLETS

Identifying pesticides and finding information, **11:11**

### SOPHISTICATED USER DEFENSE

Generally, **6:3**

### SORENSEN v. SHAKLEE

Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:15**

### SPINOSYNS

Insecticides, **13:29**

### SPRAY

Federal Insecticide, Fungicide and Rodenticide Act, **2:13**

### SPRAYABLE SUSPENSIONS

Identifying pesticides and finding information, **11:12**

### STATE LAND GRANT UNIVERSITIES

Directory of colleges of agriculture in state land grant universities, **App E**

### STATE-OF-THE-ART DEFENSE

Generally, **6:5**

### STATISTICAL ASSOCIATION

Causation, epidemiology, **7:4**

### STATUTES OF LIMITATION

Defenses, **6:6**

### STATUTES OF REPOSE

Defenses, **6:7**

### STERILANT PRODUCTS

Food Quality Protection Act of 1996, registration, **3:23**

### STEROL SYNTHESIS INHIBITORS

Mode of chemical action, **12:23**

### STORAGE

**Safe Handling and Storage** (this index)

### STORAGE REQUIREMENTS

History of pesticide regulation, **1:3**

### STRESSING AGENTS

Avicides, **14:14**

### STRICT LIABILITY IN TORT

Generally, **5:2-5:15**

California test, **5:12**

Consumer expectation test, **5:9**

Design defects, **5:8-5:14**

Fraud, **5:3**

Manufacturers and manufacturing, **5:7, 5:10**

Misrepresentation, **5:3**

Negligence, **5:4**

Prudent manufacturer test, **5:10**

Restatement (Third) of Torts, **5:14**

Risk/utility test, **5:11**

Uniform Product Liability Act test, **5:13**

Warning defects, **5:15**

Warranty theory, **5:5**

### STROBILURINS

Fungicides and bactericides, **16:10**

### SUBSTITUTED AROMATICS

Fungicides and bactericides, **16:7**

### SUFFICIENCY OF EVIDENCE

Daubert v. Merrell-Dow Pharmaceuticals, Inc., **8:16**

### SULFONYLUREAS

Herbicides, **15:28**

### SULFOXIMINES

Insecticides, **13:36**

### SULFUR

Fungicides, **16:2**

### SUSPENSION ORDERS

Food Quality Protection Act of 1996, registration, **3:24**

**SWIMMING POOLS**Generally, **1:2****SYMPTOMOLOGY**Daubert v. Merrell-Dow Pharmaceuticals, Inc.,  
**8:20****SYNAPTIC POISONS**Mode of chemical action, **12:10****SYNERGISM**Nontarget species and toxicity of pesticides, **20:4****SYNERGISTS**Insecticides, **13:38****SYSTEMIC FUNGICIDES**Generally, **16:9****TABLES**

Biorational pesticides, **App 17T**  
 Experts, finding pesticide experts, **App 22T**  
 Identifying pesticides, **App 11T**  
 Microorganism control, **App 16T**  
 Nontarget species, **App 20T**  
 Resistance to herbicides, **App 18T**  
 Toxicity and hazards, **App 19T**  
 Vertebrates, table of chemicals controlling, **App 14T**

**TEMPORAL FALLACY**Daubert v. Merrell-Dow Pharmaceuticals, Inc.,  
sequence is not consequence, **8:13****TERMITES**Generally, **1:2****TESTS AND TESTING**Federal Insecticide, Fungicide and  
Rodenticide Act (this index)**TETRONIC ACIDS**Insecticides, **13:35****TFN**Piscicides, **14:19****THEORIES OF LIABILITY**

Generally, **5:1 et seq.**  
 Misrepresentation, **5:18**  
 Negligence and Negligence Per Se (this index)  
 Res ipsa loquitur, **5:19**  
 Strict Liability in Tort (this index)  
 Warranties (this index)

**THIADIAZOLES**Fungicides and bactericides, **16:6****THIOCARBAMATES**Herbicides, **15:28, 15:29****THIOCYANATES**Insecticides, **13:14****TOLERANCES**Food Quality Protection Act of 1996, **3:8 -3:10, 3:15-3:17****Herbicides** (this index)History of pesticide regulation, **1:3****TOXICITY AND HAZARDS OF PESTICIDES**Generally, **19:1 et seq.**Cancellations and reduced-use patterns for  
pesticides, **19:7**Categories of toxicity, **19:4**Diagram of toxicity and hazards, **App 19D**EPA toxicity categories and labeling, **19:4**Estimation of toxicity to humans, **19:3**Federal Insecticide, Fungicide and Rodenticide  
Act, toxicology data, **2:10**Field reentry safety intervals, **19:5**Humans, effects of pesticides on, **19:2, 19:3**Introduction, **19:1**Labeling, **19:4**

Limited use

generally, **19:6**patterns, reduced-use patterns for pesticides,  
**19:7**restricted entry intervals (field reentry safety  
intervals), **19:5****Nontarget Species** (this index)People, effects of pesticides on, **19:2, 19:3**

Reduced use, generally. Limited use, above

Reduced-use patterns for pesticides, **19:7**Restricted entry intervals (field reentry safety  
intervals), **19:5**Restricted-use pesticides, **19:6**Table of toxicity and hazards, **App 19T****TRIAZINES**Herbicides, **15:30****TRIAZINONES**Herbicides, **15:31****TRIAZOLOPYRIMIDINES**Herbicides, **15:18****TURF PRODUCERS**Generally, **1:2****TWO-TIERED CLASSIFICATION**Food Quality Protection Act of 1996, **3:4-3:6****ULTRALOW-VOLUME CONCENTRATES**Identifying pesticides and finding information,  
**11:13****UNIFORM COMMERCIAL CODE****Defenses** (this index)**UNIFORM PRODUCT LIABILITY ACT**Strict liability in tort, **5:13**

## INDEX

### UNIVERSITIES

Directory of colleges of agriculture in state land grant universities, **App E**

### URACILS

Herbicides, **15:32**

### UREAS

Herbicides, **15:21**

### USER REQUIREMENTS

Federal Insecticide, Fungicide and Rodenticide Act, **2:25**

### VERTEBRATES CONTROL

**Avicides** (this index)

**Piscicides** (this index)

**Rodenticides** (this index)

### VIRUSES

Generally, **1:2**

Biorational pesticides, **17:5**

### WARNINGS

Strict liability in tort, **5:15**

### WARRANTIES

**Defenses** (this index)

Strict liability in tort, **5:5**

### WARRANTIES—Cont'd

Theories of liability, generally, **5:16**

### WATER-MISCIBLE LIQUIDS

Identifying pesticides and finding information, **11:7**

### WATER-SOLUBLE POWDERS

Identifying pesticides and finding information, **11:9**

### WEEDS

Generally, **1:2**

**Herbicides** (this index)

### WETTABLE POWDERS

Identifying pesticides and finding information, **11:8**

### WILDLIFE

Nontarget species, pesticide effects on wildlife, **20:7**

### WOOD PRESERVATIVES

Biocides, **16:39**

### WOOL

Moths, **1:2**

### ZINC

Biocides, **16:36**