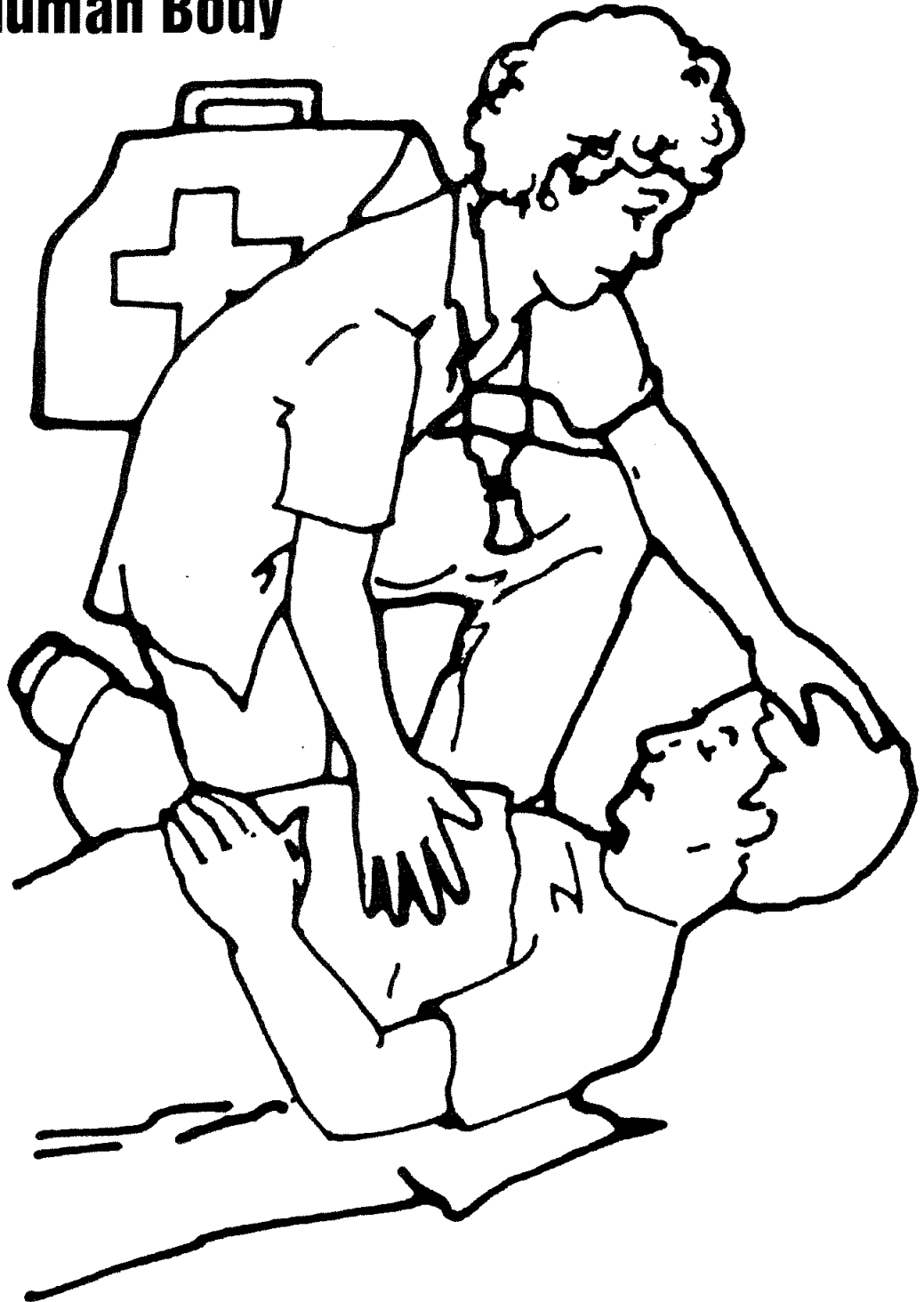


Appendix

Effects of Pesticides on the Human Body



June 21, 2017

Note about this document,
***Appendix: Effects of Pesticides
on the Human Body***

The information on the following pages is **NOT** covered in the pesticide certification exam given by the Hawaii Department of Agriculture. However, you may find it interesting if you handle pesticides because it describes symptoms and signs of exposure to common pesticide active ingredients.

* * *

It's best to read the next 12 pages as pairs (two pages together, side-by-side), like the example below showing PAGE 2 paired with PAGE 3. On each pair of pages, you should see six columns, with Chemical Family in column 1 and Irritation Effects in column 4.

Appendix Effects of Pesticides on the Human Body					
Chemical Family	Action on Human System	Acute Systemic Effects	Irritation Effects	Delayed/Allergic Effects	Type of Pesticide
1. Organophosphates	Inhibits acetylcholinesterase enzyme in tissues.	Headache, dizziness, weakness, shaking, nausea, stomach cramps, diarrhea, sweating.	Minimal rashes, but readily absorb into the skin.	Loss of appetite, weakness, weight loss, and general feeling of sickness. Occasionally permanent harm to brain and nerve system.	Insecticides, Acaricides
2. Nematodes	Reversible changes in acetylcholinesterase enzyme in tissues.	Headache, dizziness, weakness, shaking, nausea, stomach cramps, diarrhea, sweating.	Minimal rashes, but readily absorb into the skin.	Loss of appetite, weakness, weight loss, and general feeling of sickness.	Insecticides, Acaricides
3. Organohydrocarbons (Chlorinated)	Disrupt function of nervous system, mainly the brain.	Headache, dizziness, weakness, shaking, nausea, excitability, disorientation.	Minimal rashes, but readily absorb into the skin.	Some buildup in the fat tissues. May cause nervousness, weakness, and shaking. Some buildup in glands and damage cells and hormone production.	Insecticides, Acaricides
4. Pyrethroids	Allergen	Slight toxic reaction.	Minimal rashes, but readily absorb into the skin.	Skin and respiratory tract allergic effects.	Insecticides, acaricides
5. Nicotinic	Harms nervous system.	Nausea, headache, diarrhea, dizziness, shaking, abdominal pain, lack of coordination, sweating, salivation.	Minimal rashes, but readily absorb into the skin.	—	Insecticides
6. Rotenone	Irritant	Minimal	Irritates skin, eyes, and respiratory tract.	—	Insecticides, acaricides
7. Bacillus			—	—	Insecticide
8. Gibberella			—	—	Growth regulator
9. Pyrethrin					
10. Fluor					
11. Boric Acid	Irritates, blood system	Headache, weakness, restlessness.			
12. Chlordimeform	Harms bladder; Sometimes harms skin.	Blood in urine, frequent and painful urination, abdominal and back pain, hot sensation, sleepiness.	Skin rash, sweet taste.		Insecticide, miticides

EXAMPLE

Appendix

Effects of Pesticides on the Human Body

Chemical Family	Action on Human System	Acute Systemic Effects
1. Organophosphates	Inhibits acetylcholinesterase enzyme in tissues.	Headache, dizziness, weakness, shaking, nausea, stomach cramps, diarrhea, sweating.
2. N-Methyl Carbamates	Reversible changes in acetylcholinesterase enzyme in tissues.	Headache, dizziness, weakness, shaking, nausea, stomach cramps, diarrhea, sweating.
3. Organochlorines (Chlorinated Hydrocarbons)	Disrupt function of nervous system, mainly the brain.	Headache, dizziness, weakness, shaking, nausea, excitability, disorientation.
4. Pyrethrum and Pyrethrins	Allergen	Slight toxic reaction.
5. Nicotine	Harms nervous system.	Nausea, headache, diarrhea, dizziness, shaking, abdominal pain, lack of coordination, sweating, salivation.
6. Rotenone	Irritant	Minimal
7. Bacillus thuringiensis	None known	—
8. Gibberellic Acid	None known	—
9. Pyrethroids	Irritant	Minimal
10. Fluorides	Harms brain and stomach.	Thirst, abdominal pain, vomiting, diarrhea, headache, weakness, salivation, dilated pupils, lethargy.
11. Boric Acid	Irritants; Harms stomach, intestines, blood system, and brain.	Nausea, vomiting, abdominal pain, diarrhea, blood in vomit and feces, headache, weakness, tremors, restlessness.
12. Chlordimeform	Harms bladder; Sometimes harms skin.	Blood in urine, frequent and painful urination, abdominal and back pain, hot sensation, sleepiness.

Irritation Effects	Delayed/Allergic Effects	Type of Pesticide
Minimal rashes, but readily absorbed through the skin.	Loss of appetite, weakness, weight loss, and general feeling of sickness, Occasionally permanent harm to brain and nerve system.	Insecticides, Acaracides
Minimal rashes, but readily absorbed through the skin.	Loss of appetite, weakness, weight loss, and general feeling of sickness.	Insecticides, Acaricides
Minimal rashes, but readily absorbed through the skin.	Some buildup in the fat tissues. May cause nervousness, weakness, and shaking. Some buildup in glands and damage cells and hormone production.	Insecticides, Acaricides
Minimal	Skin and respiratory tract allergic effects.	Insecticides, acaricides
Minimal, but readily absorbed through the skin.	—	Insecticides
Irritates skin, eyes, and respiratory tract.	—	Insecticides, acaricides
—	—	Insecticide
—	—	Growth regulator
Stinging, burning, itching, tingling, numbness of skin.	—	Insecticides
—	—	Insecticides
Irritates and burns skin and respiratory tract.	—	Insecticide
Skin rash, sweet taste.	—	Insecticide, miticides

Chemical Family	Action on Human System	Acute Systemic Effects
13. Propargite	Irritants; Low systemic toxicity.	Minimal
14. Diflubenzuron, Teflubenzuron	Low systemic toxicity.	Minimal
15. Chlorobenzilate	Irritants; Low systemic toxicity.	Minimal
16. Cyhexatin	Irritants; Probable harm to nervous system.	Probable headache, nausea, vomiting, dizziness, avoidance of light.
17. Methoprene	Very low systemic toxicity.	Minimal
18. Sulfur	Irritant; Low systemic toxicity.	Minimal
19. Diethyltoluamide	Irritants; Low systemic toxicity, except to children.	Headache, restlessness, crying spells, stupor, tremors.
20. Alkyl Phthalates	Irritants; Low systemic toxicity.	Stomach- and intestine-lining irritation.
21. Benzyl Benzoate	Irritants; Low systemic toxicity.	Minimal
22. Arsenicals	Irritants; Harms liver, kidney, brain, bone marrow, and nervous system.	Headache, burning stomach pain, vomiting, diarrhea, dizziness; garlic odor on breath and feces.
23. Chlorophenoxy Compounds	Irritants; Harms liver, kidney, and nervous system; May cause skin to discolor.	Do not remain in body; passed out within hours or days.
24. Nitrophenolic and Nitrocresolic Pesticides	Harms liver, kidneys, and nervous system.	Headache, weakness, thirst, excessive sweating, feeling of overall illness; Yellow stain on skin, hair, and urine is characteristic.
25. Pentachlorophenol	Irritants; Harms liver, kidneys, and nervous system.	Headache, weakness, nausea, excessive sweating, dizziness, fever, rapid breathing, intense thirst, vomiting, restlessness.

Irritation Effects	Delayed/Allergic Effects	Type of Pesticide
Severe skin and eye irritant.	Probable skin sensitizer.	Acaricide
—	—	Insecticide
Skin and eye irritant.	Tumors observed in laboratory animals.	Acaricide
Mild skin irritant.	—	Acaricide
—	—	Insecticide
Irritates eyes, skin, and respiratory tract.	—	Acaricide; Fungicide
Very irritating to eyes, mild skin irritation and peeling, except severe skin irritation in tropical conditions.	—	Insect repellent
Severely irritating to eyes and mucous membranes, not irritating to skin.	—	Insect repellent
Occasionally irritating to skin.	—	Acaricide
Swelling of mouth and throat, irritating to eyes, nose, and throat.	Accumulates in body; Chronic headaches, dizziness, stomach aches, salivation, low fever, garlic breath; Skin, liver, kidney, and blood system disorders; Possible skin and lung cancer.	Rodenticides, Insecticides, Acaricides, Marine antifouling compounds, Desiccants, Herbicides, Fungicides
Irritating to eyes, skin, lungs, mucous membranes.	Severe disfiguring skin condition (chloracne) in manufacturing workers.	Fungicides
Moderately irritating sensations to skin, eyes, nose, and throat.	Weight loss, cataracts, glaucoma.	Herbicides
Highly irritating to skin, eyes, nose, and throat.	Weight loss, weakness, anemia. Severe disfiguring skin disorder in manufacturing workers.	Herbicides, Defoliants, Molluscicides, Germicides, Fungicides, and Wood preservatives.

Chemical Family	Action on Human System	Acute Systemic Effects
26. Paraquat and Diquat	Irritants; Harms skin, nails, cornea, liver, kidney, linings of stomach and intestine, and heart. Severe delayed harm to lungs.	Burning pain in mouth, throat, stomach, and intestine, nausea, vomiting, diarrhea, giddiness, fever.
27. Acetamides	Irritants	Minimal
28. Anilides	Irritants	Minimal
29. Aliphatic Acids	Irritants	Minimal
30. Benzamide	Irritants; Low systemic toxicity.	Minimal
31. Benzoic Acid and Anisic Acid Derivatives	Irritants	Minimal
32. Benzonitriles	Irritants	Minimal
33. Benzothiadiazinone Dioxide	Irritants	Minimal
34. Dithio and Thio Carbamates	Irritants; Very weak or no inhibition of cholinesterase enzyme in tissues.	Nausea, vomiting, diarrhea, weakness.
35. Carbanilate	Irritants; Very weak or no inhibition of cholinesterase enzyme in tissues.	Minimal
36. Chloropyridinyl	Irritants	Minimal
37. Cyclohexenone Derivative	Irritants	Minimal
38. Dinitronaminobenzene Derivatives	Irritants	Minimal
39. Fluorodinitrotoluidine Compounds	Irritants	Minimal
40. Isoxazolidinone	Irritants	Minimal
41. Nicotinic Acid Isopropylamine Derivative	Irritants	Minimal
42. Oxadiazolinone	Low systemic toxicity.	—
43. Phosphonates	Irritants	Minimal
44. Phthalates (except endothall)	Irritants	Minimal

Irritation Effects	Delayed/Allergic Effects	Type of Pesticide
Irritates and harms skin, nails, nose, and eyes.	—	Herbicides
Moderately irritating to skin and eyes.	—	Herbicides
Irritates skin, eyes, and respiratory tract.	Skin sensitizers.	Herbicides
Irritates skin, eyes, and respiratory tract.	—	Herbicides
Occasionally irritating to skin.	—	Herbicide
Irritating to skin and respiratory tract.	—	Herbicides
Moderately irritating to skin and respiratory tract.	Skin sensitizers.	Herbicides, Fungicides
Irritates eyes and respiratory tract.	—	Herbicide
Irritates skin, eyes, mucous membranes, and respiratory tract.	Skin sensitizers.	Herbicides, Fungicides
Irritates skin, eyes, mucous membranes, and respiratory tract.	Skin sensitizers.	Herbicides
Irritates skin and eyes.	—	Herbicides
Irritant	—	Herbicides
Moderately irritating.	—	Herbicides
Mildly irritating.	—	Herbicides
Moderately irritating.	—	Herbicides
Irritating to eyes and skin.	—	Herbicides
—	—	Herbicides
Irritating to eyes, skin, and respiratory tract.	—	Herbicides
Moderately irritating to eyes	—	Herbicides

Chemical Family	Action on Human System	Acute Systemic Effects
45. Endothall	Harms heart, blood vessels, nervous system, and stomach and intestinal lining.	Convulsions, shock, lack of coordination, severe burning of stomach and intestine.
46. Picolinic Acid Compounds	Irritants	Minimal
47. Triazines	Irritants; Low systemic toxicity.	Minimal
48. Triazole	Minimal	Minimal
49. Uracils	Irritants	Minimal
50. Urea derivatives	Irritants	Minimal
51. Thiophthalimides	Irritants; Low systemic toxicity	Minimal
52. Copper	Irritants; Harms stomach and intestinal lining, brain, liver, kidneys, and blood system.	Prompt vomiting, burning pain in chest, diarrhea, headache, sweating.
53. Organomercuric Compounds	Harms nervous system and kidneys.	Delirium, muscle weakness, lack of coordination, numbness in fingers and face, slurred speech, hearing loss.
54. Organotin	Irritants; Harms brain, stomach, and intestines.	Headache, vomiting, dizziness, convulsions, stomach pain.
55. Cadmium	Irritants; Harms lungs, kidney, blood system, liver, stomach and intestinal lining.	Headache, cough, labored breathing, chest pain, nausea, vomiting, diarrhea, abdominal pain.
56. Anilazine	Irritants; Low systemic toxicity.	Minimal
57. Cycloheximide	Low systemic toxicity.	—
58. Diodine	Irritants; Low systemic toxicity.	Nausea, vomiting, diarrhea, harm to stomach and intestinal lining.
59. Iprodione, Metalaxyl, Terrazole, Thiabendazole, Triadimefon, Triforine	Slight Irritants; Low systemic toxicity.	Minimal
60. Coumarins, Indandiones, and Other Anticoagulants	Prevents blood from clotting.	Minimal, blood in urine.

Irritation Effects	Delayed/Allergic Effects	Type of Pesticide
Irritating to eyes, skin, and mucous membranes.	—	Herbicides, Algicides
Irritating to skin, eyes, and respiratory tract.	—	Herbicides
Moderately irritating to skin, eyes, and respiratory tract.	—	Herbicides
Slight irritant effect.	—	Herbicide
Irritate skin, eyes, and respiratory tract.	—	Herbicides
Irritate eyes, skin, and mucous membranes.	—	Herbicides
Irritates skin, eyes, and respiratory tract.	Skin sensitizers.	Fungicides
Irritates skin, respiratory tract, and particularly the eyes. Corrosive to eyes.	—	Fungicides
Minimal	Weakness and lack of coordination in arms and legs; difficulty talking and swallowing; permanent nerve and brain damage.	Fungicides
Irritates eyes, skin, and respiratory tract.	—	Fungicides, Antifouling paints
Very irritating to respiratory tract.	Harm to kidneys, liver, blood system, bone structure.	Fungicides
Irritates skin.	—	Fungicides
—	—	Fungicides
Irritates skin and eyes.	—	Fungicides
Slightly irritating to eyes and skin.	—	Fungicides
Bleeding gums and nose.	—	Rodenticides

Chemical Family	Action on Human System	Acute Systemic Effects
61. Yellow Phosphorous	Corrosive; Highly toxic; Harms heart, blood system, liver, brain, and kidneys.	Breath has garlic odor; Feces may glow and smoke; Vomiting, diarrhea, lethargy, restlessness, irritability, burning pain in throat, stomach, and intestines.
62. Zinc Phosphide	Highly toxic; Harms liver, kidneys, nervous system, heart; Severe respiratory and intestinal irritation.	Intense nausea, stomach pain, excitement, chills, cough.
63. Thallium sulfate	Harms nervous system, lungs, heart, blood vessels, kidney, liver, and lining of stomach and intestines.	Stomach pain, nausea, diarrhea, salivation, headache, lethargy, tremors, muscle weakness.
64. Sodium Fluoroacetate	Extremely toxic. Harms heart and brain.	Stomach pain, vomiting, hallucination, nervousness.
65. Strychnine and Crimidine	Acts directly on cells in the brain and spinal cord.	Blue skin color, violent convulsions.
66. ANTU and Norbormide	Low systemic toxicity, except in huge doses.	—
67. Red Squill	Low systemic toxicity.	Prompt vomiting and nausea.
68. Pyriminil	Very toxic; Harms nervous system, brain, and area around the heart.	Nausea, vomiting, diarrhea, stomach cramps, chills, confusion, weakness, chest pains.
69. Cholecalciferol	Harms liver, kidney, and heart tissue.	Weakness, headache, nausea, excess thirst and urine.
70. Napthalene	Irritants; Harms kidneys and blood system.	Headache, dizziness, nausea, vomiting.
71. Methylene Chloride	Harms stomach, intestines, liver, and kidney.	Fatigue, weakness.
72. Methyl Bromide	Irritants; Serious harm to lungs; Harms nervous system.	Coughing of frothy fluid; Severe shortness of breath, drowsiness, shaking, weakness.
73. Chloroform, Carbon Tetrachloride, Ethylene Dichloride	Irritants; Harms liver and kidneys.	Dizziness, loss of sensation and motor power, unconsciousness.
74. Ethylene dibromide	Severe irritants; Harms lungs, liver, kidney, and lining of stomach and intestine.	Dizziness, headache, fatigue, cough, abdominal pain.
75. Dibromochloropropane	Severe irritant; Harms liver and kidney.	Headache, nausea, vomiting, slurred speech, confusion.

Irritation Effects	Delayed/Allergic Effects	Type of Pesticide
Corrosive to skin, eyes, and mucous membranes.	—	Rodenticides
Irritates skin and mucous membranes; very irritating to respiratory tract.	—	Rodenticides
Minimal	Confusion, damage to nervous system, partial paralysis, damage to sight.	Rodenticides
Minimal	—	Rodenticides
Minimal	—	Rodenticides
—	—	Rodenticides
—	—	Rodenticides
Minimal	—	Rodenticides
—	—	Rodenticides
Irritates eyes and respiratory tract.	Skin sensitizer	Rodenticides
—	—	Fumigants
Severe burns, itching and blisters on skin.	Lack of coordination, muscle weakness, confusion.	Fumigants
Irritates respiratory tract.	—	Fumigants
Severely irritates respiratory tract. Corrosive to eyes and skin.	Damage to male reproductive organs.	Fumigants
Irritating to skin, eyes, and respiratory tract.	Sterility, eye damage.	Fumigants

Chemical Family	Action on Human System	Acute Systemic Effects
76. Dichloropropene, Dichloropropane	Strong irritants; Harms liver, kidney and heart tissue.	Breathing spasms.
77. Paradichlorobenzene	Irritants; Low systemic toxicity.	Minimal
78. Ethylene Oxide, Propylene Oxide	Irritants; Harms lungs and heart.	Headache, nausea, vomiting, weakness, cough of frothy, bloody fluid.
79. Formaldehyde, Paraformaldehyde	Irritants; Harms kidney, blood systems and lining of stomach and intestine.	Asthma, abdominal pain.
80. Acrolein	Irritants; Harms lungs, kidneys, blood system and lining of stom- ach and intestine.	Asthma, abdominal pain.
81. Sulfur Dioxide	Strong irritant to lungs and throat.	Respiratory distress.
82. Chloropicrin	Irritants	Vomiting, abdominal pain.
83. Sulfuryl Fluoride	Harms lungs and kidneys.	Weakness, nausea, vomiting, cough, muscle twitching, convul- sions.
84. Carbon Disulfide	Irritants; Harms nervous system; Delayed harm to kidney and liver.	Dizziness, headache, nausea, and disorientation.
85. Phosphine	Irritants; Harms lungs, liver, kidneys, heart, and nervous system.	Nausea, vomiting, dizziness, weakness, shaking, cough, diffi- culty in breathing, intense thirst.
86. Hydrogen Cyanide, Acrylonitrile	Irritants; Harms brain and heart tissues.	Headache, nausea, constriction of throat, dizziness, nervousness, sudden unconsciousness.
87. Metaldehyde	Harms stomach lining, kidney, liver.	Salivation, cramps, vomiting, tremors.
88. Aminopyridine	Disrupts nervous system func- tions.	Thirst, nausea, dizziness, weak- ness, excessive sweating.
89. Calcium Cyanamide	Irritants	Flushing, headache, low blood pressure, difficulty breathing.
90. Sodium Chlorate	Irritants; Harms intestinal lining, nervous system, and kidneys.	Swelling of mouth and throat, pain in esophagus, stomach and intes- tine, restlessness, nausea, vomit- ing, diarrhea.

Irritation Effects	Delayed/Allergic Effects	Type of Pesticide
Severely irritate skin, eyes, and respiratory tract.	—	Fumigants
Mildly irritating to nose and eyes.	—	Fumigants
Blistering and erosion to skin.	Skin sensitizer.	Fumigants
Irritating to eyes and respiratory tract; hardens and roughens skin.	Systemic sensitizer	Fumigants
Severe eye and respiratory tract irritant; Blisters on skin.	—	Fumigants, Herbicides
Severely irritating to eyes and respiratory tract.	—	Fumigants
Severely irritating to eyes, skin, and respiratory tract.	—	Fumigants
Irritating to eyes, nose, and throat.	Harm to lungs and kidneys.	Fumigants
Irritates eyes, nose, and throat.	Painful tingling and weakness in arms and legs; loss of mental functions; blindness, deafness, paralysis.	Fumigants
Mildly irritating to respiratory tract.	—	Fumigants
—	—	Fumigants, Rodenticides
—	—	Molluscicides
—	—	Avicides
Irritates skin: May be caustic to skin and severely irritating to mucous membranes.	—	Fungicides and Herbicides
Irritates skin, eyes, and respiratory tract.	—	Herbicides, Defoliants

Chemical Family**Action on Human System****Acute Systemic Effects**

91. Creosote	Irritants; Harms brain tissue, lining of stomach and intestine.	Salivation, vomiting, abdominal pain, headache, dizziness, chills, convulsions.
92. Hexachlorobenzene	Irritants; Low systemic toxicity; chronic systemic effects.	—
93. Pentachloronitrobenzene	Minimal	—
94. Dichloran	Minimal	—
95. Chlorothalonil	Irritants	—
96. Chloroneb	Irritants	—
97. Benomyl	Low systemic toxicity.	—

Irritation Effects**Delayed/Allergic Effects****Type of Pesticide**

Severely irritates skin, eyes, and mucous membranes.

Skin irritation, skin discoloration; Rarely gangrene and skin cancer.

Wood preservatives, Insecticides, Disinfectants

Minimal

Injures liver and blood system.

Fungicides

—

Possible skin sensitizers

Fungicides

—

—

Fungicides

Irritates eyes, mucous membranes, and respiratory tract.

Skin sensitizer, rarely.

Fungicides

Moderately irritating to skin and mucous membranes.

—

Fungicides

—

Skin sensitizer.

Fungicides

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