

INDEX OF SIGNS AND SYMPTOMS
OF
INDUSTRIAL DISEASES

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Preface

Historically, industrial intoxications have been defined by substance or cause in terms of signs and symptoms. Many classical texts on occupational disease and industrial toxicology approach the discussion of etiology from the standpoint of specific agents. The recent text by Key, *et al*,* describes conditions caused by exposure to over 300 chemical, physical, and biological agents. While this information is useful, a problem arises when a patient presents a group of signs and symptoms to a health professional with no knowledge of potential exposures in the occupational environment. It is in these situations that an index of signs and symptoms related to exposure can be useful. Such an index is comparable to texts of differential diagnosis for common infectious and idiopathic disease processes.

This is not a comprehensive index of all symptoms and their possible causes. Rather it is an Index to the NIOSH book, *Occupational Diseases: A Guide To Their Recognition*, by Key, *et al** relating signs and symptoms to the agents found in the occupational setting that are responsible for their onset. The index should inform occupational

physicians, nurses, and industrial hygienists as to the relation between exposure and toxic manifestation. It has been prepared to serve as one tool, to aid in evaluating the cause of particular signs and symptoms and to simplify the diagnostic process. As identified, this index was developed by private resources and was given to NIOSH for use with *Occupational Diseases: A Guide to Their Recognition*. The relationships of signs and symptoms to occupational exposure that are indicated by the authors do not necessarily constitute the official position of NIOSH. The index, although limited by the scope of the NIOSH book, can stand alone as a source of information relating signs and symptoms to exposure.

Medical terminology used in this index was taken from *Taber's Cyclopedic Medical Dictionary*, edited by Clayton L. Thomas, M.D., M. P. H., 1973.

J. Daugaard, *Symptoms and Signs in Occupational Disease: A Practical Guide*. 1978, and E. R. Plunkett, *Occupational Diseases: A Syllabus of Signs and Symptoms*, 1977, may also be useful in relating signs and symptoms to occupational exposure.

*M. M. Key, *et al*, Eds., *Occupational Diseases: A Guide to Their Recognition*, USDHEW, PHS, CDC, NIOSH Publication No. 77-181, June 1977.

Key to Symbols

* Finding from animal studies

+ Reported but not confirmed

① From use as a therapeutic

② Sign or symptom is *associated*
with agent

③ Increased risk

ABDOMEN – see 'Gastrointestinal Tract'

ABSCCESS:

Coccidioidomycosis 65
also see affected anatomical
parts

ABSENTMINDEDNESS:

Manganese 369

ACETYL CARBONIC ACID –

see 'Blood Chemistry,
changes in'

ACIDOSIS:

Methyl alcohol 158

ACRO-OSTEOLYSIS

Vinyl chloride 220
also see 'Raynaud's Syndrome'

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ADENOMA – see affected anatomical
parts

ADRENAL CORTEX:

suppression:
Nickel carbonyl 378

AGING EFFECTS:

Ozone* 429

AGGLUTINATION TITER – see
'Blood Chemistry, changes in'

AGGRESSIVENESS:

Manganese 369

ALBUMINURIA:

Carbon tetrachloride 195
Ethylene chlorohydrin 156
Ethyl ether 173
Heat 500
Picric acid 288
Tetrachloroethane 213
Turpentine 149

ALCOHOL:

increases reaction:
Calcium cyanamide 230
Dinitrobenzene 275
Dinitrotoluene 279
Inorganic lead 363
Nitrobenzene 280
intolerance:
Tetramethylthiuram disulfide
313

ALVEOLITIS:

hemorrhagic:
Zinc chloride 407

AMINOACIDURIA:

Cadmium 347
Phosphorus 384

ANALGESIC:

Dimethyl sulfate 309

ANEMIA:

nonspecific:

ANEMIA (cont.)

- Antimony 332
- Arsine 330
- Benzene 237
- Cadmium 347
- Dinitrobenzene 275
- Dinitrotoluene 279
- Ethylene glycol monomethyl ether 163
- Ethyl silicate* 176
- Histoplasmosis 67
- Hookworm disease 73
- Inorganic lead 363
- Mercaptans 311
- Naphthalene 240
- Nitrobenzene 280
- Tetrachloroethane 213
- Tetryl 289
- aplastic:
 - Benzene 237
 - Trinitrotoluene 290
- hemolytic:
 - Aniline+ 265
 - Arsine 330
 - Leptospirosis 57
 - Stibine 391
- hypochromic:
 - Cadmium 347
 - Carbon disulfide 307

ANESTHETIC:

- Chloroform 196
- Chloroprene 197
- Cold 502
- Ethyl ether 173
- Tetrachloroethylene 214

ANGER:

- Carbon disulfide 307

ANGINA:

- Carbon disulfide 307
- Ethylene glycol dinitrate 283
- Nitroglycerin 283

ANOREXIA:

- Antimony 332
- Arsenic 327
- Arsenite 461
- Boron 341
- Chlorinated hydrocarbons 457

Chlorinated naphthalenes 259

- Chlorodiphenyls 256
- Cresol 247
- Dimethylformamide 293
- Dinitrophenol 278
- Dioxane 169
- Ethylene glycol 161
- Ethylene glycol ethers 163
- Ethyl ether 173
- Graphite 420
- n-Heptane 141
- Hypobaric environments 507
- Inorganic lead 363
- Lead arsenate 461
- Manganese 369
- Mercury, inorganic 371
- Naphtha 145
- Nitroparaffins 285
- Phenol 252
- Phosphine 381
- Pyridine 301
- Q fever 52
- Rabies 46
- Tellurium 394
- Tetrachloroethane 213
- Turpentine 149
- Viral hepatitis 50
- Xylene 245

ANOSMIA:

- Ammonia 413
- Cadmium 346
- Carbon disulfide 307

ANOXIA – see 'Hypoxia'

ANURIA:

- Acetic acid 179
- Arsine 330
- Boron 341
- Picric acid 287
- Stibine 391

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- Chlorine 318
- Heat 499
- Mercury, inorganic 371
- Tetraethyl lead 364
- Turpentine 149

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- APPETITE:** loss of – see
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- APPREHENSION** – see ‘Anxiety’
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- ARRHYTHMIA** – see ‘Circulatory System’
- ARTERIAL PRESSURE** – see
‘Blood Pressure’
- ARTHRITIS:**
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- ASPHYXIA:**
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Acrylonitrile 228
Carbon dioxide 416
Chlorine 318
Fluorocarbons 205
n-Hexane 142
Hydrogen cyanide 232
Natural gas 147
Strychnine 459
Sulfur dioxide 437
- ASTHMA:**
Isocyanates 234
Phthalic anhydride 185
Platinum 387
- ASTHMA-like symptoms:**
Cobalt 356
Vanadium 406
- ATAXIA** – see ‘Incoordination’
- ATHEROSCLEROSIS:**
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- ATROPINE REFRACTORINESS:**
Organophosphates 455
- AZOTEMIA:**
Lead 363
also see ‘Uremia’
- BACK PAIN:**
Pyridine 301
- BALANCE:**
disturbed: Manganese 369
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‘Psychological Disorders’
- BELCHING:**
Phosphorus 384
- BLACKHEADS (Comedones)** – see
‘Skin Conditions’
- BLADDER:**
cancer:
2-Acetylaminofluorene* 262
Aminodiphenyl 263
Benzidine 267
 α -Naphthylamine 272
 β -Naphthylamine 273
4-Nitrobiphenyl 282
constriction:
Barium 334
disease:
Brucellosis 56
Turpentine 149
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ulcers:
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- BLEPHARITIS:**
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Ammonia 413
o-Chlorobenzylidene malonitrile
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- BLINDNESS:**
Acetic acid 179
Cresol 247
Dimethyl sulfate 309
Hydrazine 297
Hydrogen chloride 323
Mercury, alkyl 373
Methyl alcohol 158
Osmium tetroxide 380
Phenol 251
Silver nitrate 392
Sulfuric acid 439

BLINKING:

Calcium oxide 415

BLISTERS – see 'Skin Conditions
– Lesions'**BLOOD CHEMISTRY:** changes in:
nonspecific:

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Uranium 404

Acetyl Carbonic Acid, decrease:

Halogenated borons* 341

Agglutination Titer, increase:

Brucellosis 56

Blood Elements, decrease – see
'Pancytopenia'

Calcium, abnormal level:

Phosphorus 384

Carboxyhemoglobin, increase:

Carbon monoxide 418

Methylene chloride 210

Cholesterol – see 'Cholesterol'

Complement Fixing Antibody

Titer, increase:

Ornithosis 53

Granulocytes, increase:

Vibration* 516

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Heinz Bodies:

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2-Nitropropane 285

Hematocrit, changes:

increase:

Beryllium 337

decrease:

Naphthalene 240

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Hemoglobin, decrease:

Naphthalene 240

also see 'Anemia'

Inorganic Phosphorus, decrease:

Halogenated* borons 341

Magnesium, increase:

Magnesium 367

Nitrogen, increase:

Boron hydride 343

Inorganic lead 363

pH, decrease:

Nitrogen oxides 427

Phosphate, abnormal level:

Phosphorus 384

Platelets:

increase – see 'Thrombocytosis'

decrease – see 'Thrombocytopenia'

Proteins, decrease:

Nitrogen oxides 427

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Sulfhemoglobin, presence of:

Nitrobenzene 280

Urea, increase:

Boron hydride 343

Inorganic lead 363

White Cells:

increase – see 'Leukocytosis'

decrease – see 'Leukopenia'

BLOOD PRESSURE:

arterial pressure, decrease:

Boron 340

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abscess:

Brucellosis 56

fracture susceptibility:

Phosphorus 384

functional damage:

Thorium 398

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morphological damage:

Thorium 398

Vibration+ 517

pain:

Beryllium 337

Inorganic lead 362

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sequestration:

Phosphorus 384

BONE MARROW:

decreased activity:

Arsenic 328

Bromine 315

Hydrogen Bromide 315

Ionizing Radiation 471

Methyl chloride 208

BONE MARROW (cont.)

increased activity:

Sulfur dioxide 437

BRADYCARDIA (Brachycardia)

Barium 334

Dimethyl sulfate 309

Ozone 429

Tetraethyl lead 365

BRAIN – see ‘Central Nervous System’**BREATH:**

characteristic odor:

Bromine 315

Hydrogen bromide 315

Hydrogen sulfide 424 (rotten egg)

Phosphorus 384 (garlic)

Selenium 389 (garlic)

Tellurium 394 (garlic)

shortness of:

Beryllium 336

Carbon dioxide 416

Diborane 343

Nickel carbonyl 378

Ozone 429

Zinc oxide 409

also see ‘Breathing’

BREATHING:

cessation:

Ethylene glycol dinitrate 283

Nitroglycerin 283

labored:

Chlorinated hydrocarbons 457

Epichlorohydrin 170

rapid:

Cresol 247

slow:

Stibine 390

also see ‘Breath’

BRONCHI – see ‘Respiratory System’**BRONCHIOLITIS:**

Mercury, inorganic 371

Ozone* 429

BRONCHIOLITIS FIBROSA

OBLITERANS:

Nitrogen oxides 427

Sulfur dioxide 437

BRONCHITIS:

Acetic acid 179

Acrolein 188

Arsenic 327

Ammonia 413

Bromine 315

Calcium cyanamide 229

Calcium oxide 415

Carbon disulfide 307

Chlorine 318

Chromium 354

Coccidioidomycosis 65

Dichloroethyl ether 168

Dimethyl sulfate 309

Germanium tetrachloride 359

Hydrogen bromide 315

Hydrogen chloride 323

Hydrogen peroxide 421

Hydrogen sulfide 423

Isocyanates 234

Mercury, inorganic 371

Osmium tetroxide 380

Ozone* 429

Phosphorus 384

Phthalic anhydride 185

Tetramethylthiuram disulfide 313

Titanium tetrachloride 402

Vanadium 406

BRONCHOPHARYNGEAL SECRETION:

Organophosphates 454

BRONCHOPNEUMONIA:

Acetic acid 179

Ascariasis 74

Osmium tetroxide 380

Sulfur dioxide 437

Zinc chloride 407

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contacted area:

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Calcium oxide 415

Carbon disulfide 307

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Fluorine 320
Hydrazine 297
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Zinc chloride 407

also see affected anatomical parts

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CAPILLARIES – see 'Circulatory System'

CARBOXYHEMOGLOBIN – see 'Blood Chemistry, changes in'

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Ionizing radiation 470
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CARDIAC ARRHYTHMIA – see 'Circulatory System – Heart'

CARDIOMYOPATHY – see 'Circulatory System – Myocardium'

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CATARACTS – see 'Eye'

CENTRAL NERVOUS SYSTEM:

general effects on:
degeneration:
Iron pentacarbonyl 361

depression:

Alicyclic hydrocarbons 137
Benzene 236
Carbon tetrachloride 195
1,2-Dibromoethane 199
1,2-Dichloroethylene 201
Ethanolamine* 224
Ethylene glycol 161
Fluorocarbons 205
Gasoline 140
Mercaptans 311
Methyl chloride 208
Naphtha 145
Nitrophenol* 286
Phosphine 381
n-Propyl alcohol 159
Tetrachloroethylene 214
Toluene 243
1,1,1-Trichloroethane 216
1,1,2-Trichloroethane* 217
Trichloroethylene 218
Turpentine 149
Vinyl chloride 220
Xylene 245

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Boron 340
Nitroparaffins* 285

stimulation:

Fluoroacetate 459

toxicity:

Cadmium* 347
Carbonyls* 350
1,2-Dichloroethylene 202
Dimethyl sulfate 309
Diphenyl 239
Fluorine 320
Inorganic lead 363
Mercury, alkyl 373
Stibine 390
Tetraethyl lead 364
Thallium 396
Trichloroethylene 218
Vinyl chloride 220

Brain:

abscess:

Aspergillosis 64

damage:

Ethylene chlorohydrin 156
Ethylene glycol 161
Mercury, alkyl 373
Methyl bromide 207
Nickel* 377

CENTRAL NERVOUS SYSTEM

(cont.)

degeneration:

Alicyclic hydrocarbons 137

dysfunction – see 'Encephalopathy'

granuloma:

Aspergillosis 64

hemorrhage:

Benzene 237

Coumarins 459

Indandiones 459

inflammation – see 'Encephalitis'

Cerebrum:

edema:

Dimethyl sulfate 309

effects in offspring:

Mercury, alkyl 373

Meninges:

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Leptospirosis 57

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CHEST – see 'Respiratory System'

CHILLS:

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Coccidioidomycosis 65

Diborane 343

Leptospirosis 57

Nitrogen oxides 426

Phosgene 430

Rocky Mountain spotted fever 51

Tularemia 62

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CHLORACNE – see 'Skin Conditions'

CHOKING:

Chlorine 319

Ozone 429

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abnormal:

Carbon disulfide 307

decreased blood level – see

'Hypocholesterolemia'

synthesis inhibited:

Vanadium 406

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CHROMOSOMAL

ABERRATIONS:

Benzene 237

Ozone* 429

CIRCULATORY SYSTEM:

general effects on:

Antimony 332

Carbon disulfide 307

Heart:

abscess:

Aspergillosis 64

arrhythmia:

Fluoroacetate 459

Fluorocarbons 205

Methylene chloride* 210

Tetrachloroethylene* 214

Trichloroethylene 218

Trinitrotoluene 290

cor pulmonale:

Cadmium 347

damage:

Arsine 330

Nickel* 376

degeneration:

Alicyclic hydrocarbons* 137

disease:

Carbon disulfide 307

failure:

Beryllium 337

Chloroform 196

Ethylene glycol 161

Phosgene 431

Phosphine 381

Phosphorus 384

granuloma:

Aspergillosis 64

palpitations:

Ethylene glycol dinitrate 283

Nitroglycerin 283

rate:

increase – see 'Tachycardia'

decrease – see 'Brachycardia'

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Myocardium:

cardiomyopathy:

Cobalt+ 356

damage:

Antimony trisulfide 332

Chloroprene 198

Tetrachloroethane* 213

epinephrine sensitivity:

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n-Hexane 142

Pericardium:

hemorrhage:

Benzene 237

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pain:

Diborane 343

Vasculature:

capillary permeability, increase:

Arsenic 327

collapse:

Alicyclic hydrocarbons* 137

Calcium cyanamide 230

constriction:

Barium 334

injury:

Iron pentacarbonyl 361

Phosphorus 384

CIRRHOsis – see 'Liver'

CO-CARCINOGENIC AGENT:

Sulfur dioxide* 437

COLIC – see 'GI Tract'

COLLAPSE:

Carbon monoxide 418

Ethylene chlorohydrin 156

Heat 500

Hydroquinone 250

Nitrogen oxides 426

Oxalic acid 183

β -Propiolactone 303

Toluene 243

COMA:

Alicyclic hydrocarbons 137

Antimony 332

Benzene 236

Carbon monoxide 418

Carbon tetrachloride 195

Chlorinated hydrocarbons 457

Chloroform 196

Ethylene glycol dinitrate 283

Fluorine 320

Gasoline 140

Heat 500

Hydrogen sulfide 423

Hydroquinone 250

Inorganic lead 363

Kerosene 144

Mercaptans 311

Methyl bromide 207

Methyl chloride 208

Methylene chloride 210

Nitrobenzene 280

Nitroglycerin 283

Phosphine 381

Picric acid 287

Turpentine* 149

Toluene 243

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see 'Skin Conditions'

COMPLEMENT FIXING ANTIBODY –
see 'Blood Chemistry, changes in'

CONFUSION:

Cresol 247

1,2-Dichloroethane 200

Gasoline 140

Heat 500

Hydrogen cyanide 232

Kerosene 144

Manganese 369

Naphthalene 240

Nickel carbonyl 378

Oxygen (>2 atm.) 505

Tetrachloroethane 213

Turpentine 149

CONJUNCTIVA – see 'Eye'

CONJUNCTIVITIS:

nonspecific:

Acetic anhydride 180

Alicyclic hydrocarbons 137

Aluminum 324

Arsenic 327

Beryllium 336

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Boron 341
Calcium cyanamide 229
Chlorinated lime 316
Chloroprene 197
Chromium 354
Copper 357
Creosote 249
Decaborane 343
Dimethyl sulfate 309
Ethylene glycol ethers 162
Leptospirosis 57
Newcastle disease 49
OCBM 231
Osmium tetroxide 380
Pentaborane 343
Phosgene 430
Phthalic anhydride 184
Selenium 388
Sulfur dioxide 437
Sulfuric acid 439
Tetryl 289
Titanium tetrachloride 402
1,1,1-Trichloroethane 215
1,1,2-Trichloroethane* 217
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bulbar:

Hydrogen sulfide 423

CONNECTIVE TISSUE:

Tumor:

β -Propiolactone* 303

CONSTIPATION:

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Dimethylformamide 293
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Allyl alcohol* 151
Benzene 236
Boron hydrides 343
Chlorinated hydrocarbons 457
Creosote 249
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Hydrogen sulfide 423
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Methyl bromide 207
Methyl chloride 208
Naphtha 145
Nickel carbonyl 378
Oxalic acid 183
Oxygen ($>2\text{atm.}$) 505
Phosphine 381
 β -Propiolactone 303
Strychnine 459
Tetrachloroethane 213
Tetraethyl lead 365
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Turpentine 149

COPPER DEFICIENCY:

Molybdenum 375

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CORNEA—see 'Eye'

CORYZA:

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Arsenic 327
Beryllium 336
Bromine 315
1,3- Butadiene 139
Cadmium 347
Chlorine 318
Chromium 353
Cobalt 356
Coccidioidomycosis 65
Decompression 506
Diborane 343
Dichloroethyl ether 168
Epichlorohydrin 170
Formaldehyde 189
Formic acid 182
Graphite 420
Hydrogen bromide 315
Iron pentacarbonyl 361
Isocyanates 234
Magnesium oxide 367
Nickel carbonyl 378
Nitrogen oxides 426
OCBM 231
Ozone 429
Phosgene 430

COUGH (cont.)

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Phthalic anhydride 184
Platinum 387
Sulfur dioxide 437
Sulfuric acid 439
Tetramethylthiuram disulfide 313
Tetryl 289
Trinitrotoluene 290
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Vanadium 406
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CRAMPS:

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CYANOSIS:

Aminodiphenyl 263
Aniline 265
Boron 340
Chlorine 318
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Creosote 249
Dinitrotoluene 279
Epichlorohydrin 170
Ethylene glycol dinitrate 283
Hydroquinone 250
Iron pentacarbonyl 361
Nickel carbonyl 378
Nitrobenzene 280
Nitrogen oxides 426
Nitroglycerin 283
Organophosphates 454
Oxalic acid 183
Phenol 251
Phosgene 431
Trinitrotoluene 290

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CYST:

sebaceous:
Chlorinated naphthalenes 259
Chlorodiphenyls 256

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Mercury 373
Noise 509

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Food poisoning 59
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Ethylene chlorohydrin 156
Heat 500
Inorganic lead 365
Mercury, inorganic 371
Methyl bromide 207
Ornithosis 53
Tetrachloroethane 213
Tetraethyl lead 365

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Tetraethyl lead 365

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Disorders – Psychoses’

DERMATITIS:

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Acetic anhydride 181
Acrolein 188
Aluminum 324
Antimony 332
Arsenic 326
Arsenite 461
Benzene 236
Benzidine 267
Benzyl chloride 254
Beryllium 336
Brass dust 345
1,3-Butadiene 139
Calcium cyanamide 229
Calcium oxide 415
Carbon tetrachloride 195
Chlorinated lime 316
Chloroprene 197
Chromium 353
Cobalt 355
Copper 357
Creosote 249

DERMATITIS (cont.)

1,2-Dibromoethane 199
1,2-Dichloroethane 200
1,2-Dichloroethylene 201
Dimethylformamide 293
Dinitrophenol 277
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Ethyl alcohol 155
Ethylene oxide 172
Ethyl ether 173
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Formaldehyde 189
Furfural 191
Gasoline 140
n-Heptane 141
n-Hexane 142
Hydrazine 297
Hydrogen chloride 322
Ionizing radiation 470
Ketones 192
Lead arsenate 461
Mercaptans 311
Mercury, alkyl 373
Methyl alcohol 158
Methyl bromide 206
Methylene chloride 209
Naphthalene 240
 β -Naphthylamine 273
Nickel carbonyl 378
Osmium tetroxide 380
Paraffin 148
Phosphorus 384
Phthalic anhydride 184
Picric acid 287
Platinum 387
Portland cement 432
Potassium hydroxide 434
Propylene dichloride 211
Pyrethrum 462
Rotenone 462
Selenium 388
Sodium hydroxide 434
Styrene 242
Tetrachloroethylene 214
Tetryl 289
Tin 400
Toluene 243
Trichloroethylene 218
Trinitrotoluene 290
Turpentine 149
Xylene 245

Zinc chloride 407

Zinc oxide 409

Zirconium+ 411

actinic:

UV radiation

contact:

Acetaldehyde 186
Acetic anhydride 181
Arsenic 327
Chromium 353
Cobalt 355
3,3-Dichlorobenzidine 268
Dinitrophenol 277
Epichlorohydrin 170
Ethylene oxide 172
Formaldehyde 189
Furfural 191
Pyrethrum 462
Rotenone 462
Tetramethylthiuram
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Tetryl 289

eczema:

Aluminum 324
Arsenic 327
Nickel 376
Phosphorus 384
Turpentine 149
also see 'Skin Conditions'

DESQUAMATION – see 'Skin
Conditions'

DIARRHEA:

Acetic acid 179
Alicyclic hydrocarbons* 137
Allyl alcohol* 151
Arsenic 326
Arsenite 461
Arsine 330
Bipyridyl 458
Boron 340
Bromine 315
Carbamates 456
Carbon tetrachloride 195
Cobalt 356
Copper salts 357
Cresol 247
Dimethylformamide 293
Fluorine 320

DIARRHEA (cont.)

Food poisoning 59
Formic acid 182
Hydrogen bromide 315
Hydrogen sulfide 423
Ionizing radiation 471
Lead arsenate 461
Mercury, inorganic 371
Molybdenum trioxide* 375
Nitroparaffins 285
n-Nitrosodimethylamine 299
Organophosphates 454
Ornithosis 53
Phenol 252
Phosphine 381
Picric acid 287
Pyridine 301
Tricresyl phosphates 305

DIGESTION DISTURBED – see 'Indigestion'

DIPLOPIA (Double Vision): Amyl alcohol 152

DISCOMFORT – see 'Malaise'

DISORIENTATION:

Arsenite 461
Boron hydrides 343
Endrin 457
Lead arsenate 461
Thallium 396

DIZZINESS:

Antimony 332
Benzene 236
Boron hydrides 343
n-Butyl alcohol 153
Carbon disulfide 307
Carbon monoxide 418
Chlorinated hydrocarbons 457
Chloroform 196
Cresol 247
1,2-Dichloroethane 200
1,2-Dichloroethylene 201
Dichloroethyl ether* 168
Dinitrobenzene 275
Dinitrophenol 278
Dinitrotoluene 279

Dioxane 169
Ethyl chloride 203
Ethylene chlorohydrin 156
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n-Hexane 142
Hydrazine 298
Hydrogen sulfide 423
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Ketones 193
Mercaptans 311
Methyl chloride 208
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Organophosphates 455
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Phosgen 430
Pyridine 301
Tellurium 394
Tetrachloroethylene 214
Tetramethylthiuram disulfide 313
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1,1,1-Trichloroethane 216
Trichloroethylene 218
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DROOLING:

Rabies 46

DROWSINESS

Acetates 175
Aminodiphenyl 263
Aniline 265
Boron hydrides 343
1,3-Butadiene 139
n-Butyl alcohol 153
Carbon monoxide 418
Chlorinated benzenes 258
Dichloroethyl ether* 168
Dimethylacetamide ① 302
Dimethyl sulfate 309
Dinitrobenzene 275
Dinitrotoluene 279
Dioxane 169
Ethyl alcohol 155
Ethylene glycol ethers 163

DROWSINESS (cont.)

Ethylene oxide 172
Ethyl ether 173
Kerosene 144
Methyl bromide 207
Methyl formate 178
Ornithosis 53
Ozone 429
Tellurium 394
Tetrachloroethane 213
Toluene 243
1,1,1-Trichloroethane 216
Trichloroethylene 218
Trinitrotoluene 290
Xylene 245

DYSPEPSIA – see 'Indigestion'

DYSPHAGIA:

Cresol 247
Phenol 251
Phosphine 381

DYSPHASIA:

Arsenic 326
Dimethyl sulfate 309
Hydroquinone 250
Manganese 369
Mercury, alkyl 373
Methyl bromide 207
Methyl chloride 208
Organophosphates 454

DYSPNEA:

Aniline 265
Arsenic 327
Beryllium 337
Cadmium 347
Calcium cyanamide 230
Chlorine 318
Chromium 353
Cobalt 356
Diborane 343
Dinitrobenzene 275
Dinitrotoluene 279
Formaldehyde 189
Graphite 420
Hydroquinone 250
Isocyanates 234
Nitrogen oxides 426

Nitrophenol* 286
Organophosphates 454
Phosgene 431
 β -Propiolactone* 303
Sulfur dioxide 437
Trinitrotoluene 290
Vanadium 406

DYSPROTEINEMIA:

Halogenated borons* 341

DYSURIA:

β -Naphthylamine 273

EAR:

irritation:
Arsenic 326
ringing – see 'Tinnitus'

ECCHYMOSIS – see 'Skin
Conditions-Lesions'

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EDEMA:

Aminodiphenyl 263
Anthrax 55
Bromine 315
Chlorodiphenyls 256
Cold 502
Dimethyl sulfate 309
Hookworm disease 73
Hydrogen bromide 315
Tetryl 289
also see affected anatom-
ical parts

ELECTROCARDIOGRAM:

abnormal:
Arsine 330
Carbon disulfide 307
Hydrogen sulfide 424
Phosphorus 384

ELECTROENCEPHALOGRAM:

abnormal:
Carbon disulfide 307
Organic tin 400

ELEPHANTIASIS:
Chromblastomycoses 69

EMACIATION:
Histoplasmosis 67
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EMBRYOTOXIC – see
‘Teratogenesis’

EMPHYSEMA:
Cadmium 347
Carbon disulfide 307
Cerium 352
Ozone* 429
Phosgene 431
Phthalic anhydride 185
Sulfuric acid 439

ENCEPHALITIS:
Rabies 46

ENCEPHALOPATHY:
Ethylene glycol monomethyl
ether 163
Methyl chloride 210
Tetraethyl lead 364
Thallium sulfate 459

ENDOCARDITIS:
Candidiasis 64
Histoplasmosis 67
Q fever 52

ENDOCRINE IMPAIRMENT:
Carbon disulfide 307

ENZYME CHANGES:
cholinesterase activity, decrease:
Halogenated borons* 341
Vanadium 406
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(LDH), increase:
Zinc oxide 409
leukocyte alkaline phosphatase
activity, increase:
Vibration* 516

EPIGASTRIC PAIN – see
‘GI Tract’

EPISTAXIS – see ‘Nosebleed’

EQUILIBRIUM:
loss of:
Alicyclic hydrocarbons 137
also see ‘Balance’ and
‘Dizziness’

ERYTHEMA:
nonspecific:
Antimony 332
Benzene 236
Boron 340
Calcium cyanamide 229
Chlorinated naphthalenes 259
Creeping eruption 73
Creosote 248
Copper 357
1,2-Dibromoethane 199
Erysipeloid 61
Formic acid 182
Hookworm disease 73
Ionizing radiation 470
Laser 494
Naphthalene 240
OCBM 231
Phthalic anhydride 184
Picric acid 287
Platinum 387
 β -Propiolactone 303
Swimmer’s itch 72
Tetramethylthiuram
disulfide 313
Tin 400
UV radiation 474

multiforme:
Coccidioidomycosis 65
nodosum:
Coccidioidomycosis 65
also see affected anatomical
parts

ESCHAR (scab) – see ‘Skin
Conditions’

ESOPHAGUS – see ‘GI Tract’

EUPHORIA:
Gaseous nitrogen (>4 atm) 505
Manganese 369

EXCITEMENT:
Acetaldehyde 186

EXCITEMENT (cont.)

- Alicyclic hydrocarbons 137
- Arsenite 461
- Ethyl ether 173
- Hydrogen sulfide 423
- Lead arsenate 461
- Mercury, inorganic 371
- Naphthalene 240
- Phenol 251
- Tetraethyl lead 364
- Turpentine 149

EXHAUSTION:

- Carbamates 456
- Chloroform 196
- Ethyl ether 173
- Heat 499
- Selenium 389
- Tetryl 289

EXPECTORATION:

- Tuberculosis 60
- Vanadium 406

EYE: general effects on:

- atrophy:

- Thallium 396

- burn:

- Bromine 314
 - Calcium oxide 415
 - Cresol 247
 - Ethyleneimine 294
 - Formaldehyde 189
 - Hydrogen bromide 314
 - Trichloroethylene 218

- cataracts — see 'Lens'

- damage:

- Arsine 329
 - n-Butylamine 222
 - Creosote 249
 - Cresol 247
 - 1,2-Dichloroethane 200
 - Hydrogen peroxide 421
 - Hydroquinone 250
 - Infrared radiation 479
 - Laser 494
 - Methyl chloride 208
 - Methylene bisphenyl isocyanate (MDI) 234
 - Phenol 251
 - Sulfuric acid 439
 - Toluene 243

- Toluene diisocyanate (TDI) 234

- Trichloroethylene 218

- Xylene 245

- discharge in infants:

- Chlorodiphenyls 256

- discoloration:

- Acridine 292 (yellow)
 - Alkyl lead 364 (redness)
 - Dinitrobenzene 275 (yellow)
 - Silver nitrate 392

- inflammation:

- Zinc chloride 407

- irritation:

- Acetaldehyde 186
 - Acetates 175
 - Acetic acid 179
 - Acetonitrile 226
 - Acrolein 188
 - Acrylonitrile 228
 - Allyl alcohol 151
 - Ammonia 413
 - Amyl alcohol 152
 - Aniline 265
 - Antimony 332
 - Arsenic 326
 - Barium 334
 - Benzene 236
 - Benzyl chloride 254
 - Beryllium 336
 - Boron 340
 - Bromine 314
 - 1,3-Butadiene 139
 - n-Butylamine 222
 - Calcium cyanamide 229
 - Calcium oxide 415
 - Carbon disulfide 307
 - Carbon tetrachloride 195
 - Chlorinated lime 316
 - Chlorine 318
 - Chlorodiphenyls 256
 - Chloromethyl methyl ether (CMME) 166
 - Cobalt 355
 - 1,2-Dibromoethane 199
 - Dichloroethyl ether 168
 - Dimethyl sulfate 309
 - Dioxane 169
 - Diphenyl 239
 - Dithiocarbamates 460

EYE (cont.)

Epichlorohydrin 170
 Ethanolamine* 224
 Ethyl alcohol 154
 Ethyl chloride 203
 Ethylene chlorohydrin 156
 Ethylenediamine* 225
 Ethylene glycol ethers 162
 Ethylene oxide 172
 Ethyl ether 173
 Ethyl silicate 176
 Fluorine 320
 Formaldehyde 189
 Formates 178
 Formic acid 182
 Furfural 191
 Germanium dioxide 359
 Hydrazine 297
 Hydrogen bromide 314
 Hydrogen chloride 322
 Hydrogen cyanide 232
 Hydrogen peroxide 421
 Isocyanates 234
 Manganese 368
 Mercaptans 311
 Methyl bromide 206
 Methylene chloride 209
 Molybdenum trioxide 374
 Naphthalene 240
 Nitrobenzene 280
 Nitrogen oxides 426
 Nitroparaffins 285
 OCBM 230
 Osmium tetroxide 380
 Oxalic acid 183
 Ozone 429
 Phosphorus 384
 Phthalic anhydride 184
 Picric acid 287
 Portland cement 432
 Propylene dichloride 211
 Quinone 253
 Selenium 388
 Silver nitrate 392
 Styrene 242
 Sulfur chloride 435
 Sulfuric acid 439
 Tetrachloroethylene 214
 Tetraethyl lead 364
 Tetryl 289

Toluene 243
 1,1,1-Trichloroethane 215
 1,1,2-Trichloroethane* 217
 Trichloroethylene 218
 Trinitrotoluene 290
 Turpentine 149
 Vanadium 405
 Vinyl chloride 220
 Xylene 245
 Zinc chloride 407

lesions:

Bipyridyls 458
 Hydrogen sulfide 423
 Silver nitrate 392

pain:

OCBM 231
 Zinc chloride 407

perforation:

Calcium oxide 415

pressure, increase:

Ammonia 413

swelling:

Zinc chloride 407

ulcers:

Nitrogen oxides 426

Conjunctiva:

bleeding into:

Coumarins 459
 Indandiones 459

brown stains:

Hydroquinone 250
 Quinone 253

burn:

Calcium oxide 415
 Silver nitrate 392

burning sensation:

Vanadium 405

edema:

Acetic anhydride 180
 Tributyl tin 400

inflammation – see

'Conjunctivitis' and
 'Keratoconjunctivitis'

irritation:

Acridine 292
 Arsenic 326
 Beryllium 336
 n-Butyl alcohol 153
 Calcium oxide 415
 Chlorinated benzenes 257

EYE (cont.)

- Chloroprene 197
- Dichloroethyl ether 168
- Ethyleneimine 294
- Gasoline 140
- Ketones 192
- Magnesium 367
- Naphtha 145
- Nickel 376
- Propyl alcohol 159
- Pyridine 300

lesion:

- Silver nitrate 392

Cornea:

burn:

- Acetic anhydride 180
- Calcium oxide 415
- Infrared radiation 479
- Sulfur dioxide 437
- Turpentine 149

clouding:

- Copper 357
- Ethylene glycol ethers 162
- Titanium tetrachloride 402

damage:

- Aluminum 324
- Aniline 265
- Benzyl chloride 254
- Bipyridyls 458
- Bis (chloromethyl) ether 164
- Chloroprene 197
- Creosote 249
- Ethylenediamine* 225
- Hydroquinone 250
- Infrared radiation 479
- Osmium tetroxide 380
- Picric acid 287
- Quinone 253
- Sulfuric acid 439

inflammation – see 'Keratitis'
and 'Keratoconjunctivitis'

irritation:

- Ethyleneimine 294
- Pyridine 300

lesion:

- Hydrazine 297
- Silver nitrate 392
- UV radiation 474

opacities:

- Decaborane 343

- Dimethyl sulfate 309

- Pentaborane 343

- β -Propiolactone 303

- Quinone 253

- Sulfur dioxide 437

reflexes, loss of:

- Bromine 315

- Hydrogen bromide 315

ulcer:

- Ammonia 413

- Calcium cyanamide 229

- Chlorinated lime 316

- Copper 357

- Zinc chloride 407

Eyelid:

discoloration:

- Selenium 388 (pink)

edema:

- Ammonia 413

- Boron 341

- Hydrogen sulfide 423

- Newcastle disease 49

- Tetryl 289

erythema:

- OCBM 231

inflammation – see

'Blepharitis'

scarring:

- Sulfuric acid 439

Lens:

cataracts:

- Dinitrophenol 278

- Infrared radiation 478

- Ionizing radiation 470

- Laser² 494

- Naphthalene 240

- Trinitrotoluene 290

proliferative changes:

- Bipyridyls 458

Pupil:

contraction, abnormal – see
'Miosis'

reflexes, loss of:

- Creosote 249

- Organophosphates 454

reflexes, slowed:

- Thallium 396

FACE:

congestion:

FACE (cont.)

- Chlorinated hydrocarbons 457
- scarring:
 - Sulfuric acid 439
- spasms:
 - Boron hydrides 343
- tingling:
 - Ethylenediamine 225

FAINTING (Syncope):

- 1,3-Butadiene 139
- Chlorine 318
- Cresol 247
- Heat 500
- Hypobaric environment 507
- Phenol 252

FATIGUE:

- Arsine 330
- Beryllium 336
- 1,3-Butadiene 139
- Calcium cyanamide 230
- Chlorinated naphthalenes 259
- Chlorodiphenyls 256
- Diborane 343
- Dinitro-o-cresol 276
- Dinitrophenol 278
- Diphenyl 239
- Ethyl alcohol 155
- Ethylene glycol ethers 163
- Furfural 191
- Inorganic lead 362
- Mercury, inorganic 371
- Nitrobenzene 280
- Organophosphates 455
- Ozone 429
- Phosphine 381
- Sulfur dioxide 437
- Tetrachloroethane 213
- Tetrachloroethylene 214
- Tetryl 289
- Thallium 394
- Toluene 243
- Trichloroethylene 218
- Viral hepatitis 50
- Zinc oxide 409

FETAL EFFECTS — see
 'Teratogenesis'

FEVER:

nonspecific:

- Anthrax 55
 - Brucellosis 56
 - Cat-scratch disease 47
 - Chromium 353
 - Coccidioidomycosis 65
 - Diborane 343
 - Dinitro-o-cresol 276
 - Food poisoning 59
 - Histoplasmosis 67
 - Ionizing radiation 471
 - Iron pentacarbonyl 361
 - Leptospirosis 57
 - Magnesium oxide 367
 - Milker's nodules 48
 - Newcastle disease 49
 - Nitrogen oxides 426
 - n-Nitrosodimethylamine 299
 - Orf 48
 - Organophosphates 454
 - Ornithosis 53
 - Q fever 52
 - Rabies 46
 - Rocky Mountain spotted fever 51
 - Tuberculosis 60
 - Tularemia 62
 - Viral hepatitis 50
 - Zinc oxide 409
- nocturnal:
- Brucellosis 56

FIBROSIS:

- Chromoblastomycoses 69
 - Cobalt 356
 - Ozone* 429
 - Phosgene 430
- also see affected anatomical parts and Table 3, 119

FLUID LOSS:

- Arsenic 327

FLUOROSIS:

- Halogenated borons* 341

FLUSHING:

- Acetonitrile 226

FLUSHING (cont.)

- Amyl alcohol 152
- n-Butylamine 222
- Dimethylformamide 293
- Gasoline 140
- Tetramethylthiuram disulfide 313

FOLLICULITIS:

- Paraffin 148

FROSTBITE:

- 1,3-Butadiene 139
- Carbon dioxide 416
- Cold 50
- Ethyl chloride 203
- Ethylene oxide 172
- Methyl chloride 208
- Natural gas 147
- Vinyl chloride 220

GAIT:

- spastic:
 - Mercury, alkyl 373

GANGRENE:

- nonspecific:
 - Cold 502
 - Creosote 249
 - Cresol 247
 - Oxalic acid 183
- gas:
 - Magnesium* 367

GASTRITIS – see 'Gastroenteritis'

GASTROENTERITIS:

- Carbon disulfide 307
- Copper salts 357
- Hydrogen sulfide 423
- Thallium sulfate 459

GASTROINTESTINAL TRACT

(GI Tract):

- general effects on:
 - disturbances:
 - Vibration*+ 517
 - epigastric pain:
 - Arsenic 326
 - Carbamates 456
 - irritation:

Antimony 332

Boron 340

Carbon tetrachloride 195

Chlorinated lime 317

Copper salts 357

Formaldehyde 189

Hexamethylenetetramine 296

Hookworm disease 73

Selenium 388

Silver nitrate 392

Zinc chloride 407

motility, loss of:

Cerium* 352

necrosis:

Hydrogen chloride 323

pain:

Copper salts 357

Diphenyl 239

peristalsis, increase:

Barium 334

ulcers:

Candidiasis 64

Carbon disulfide 307

Abdomen:

colic:

Arsenite 461

Lead arsenate 461

Thallium 396

cramps:

Ethyl chloride 203

Fluorine 320

Food poisoning 59

Inorganic lead 363

n-Nitrosodimethylamine 299

Organophosphates 455

pain:

Acetonitrile 227

Arsenite 461

Arsine 329

Ascariasis 74

Bipyridyl 458

Boron 340

Bromine 315

Carbon tetrachloride 195

Chlorinated hydrocarbons 457

Chlorodiphenyls 256

Dimethylformamide 293

Hydrogen bromide 315

Inorganic lead 363

Isocyanates 234

- GASTROINTESTINAL TRACT (cont.)**
- Lead arsenate 461
 - Naphthalene 240
 - Organophosphates 454
 - Phosphine 381
 - Stibine 390
 - Tetrachloroethane 213
 - Tricresyl phosphates 305
 - Xylene 245
- Esophagus:**
- corrosive effects:
 - Sulfuric acid 439
 - Zinc chloride 407
- Stomach:**
- burns:
 - Toluene diisocyanate (TDI) 234
 - corrosive effects:
 - Sulfuric acid 439
 - Zinc chloride 407
 - inflammation – see ‘Gastroenteritis’
 - pain:
 - Dioxane 169
 - Epichlorohydrin 170
 - Food poisoning 59
 - Formaldehyde 189
 - Tetrachloroethane 213
 - tumors:
 - β -Propiolactone* 303
- GIDDINESS:**
- Arsenic 327
 - Arsine 329
 - Iron pentacarbonyl 361
 - Methyl alcohol 158
 - Methylene chloride 209
 - Nickel carbonyl 378
 - Selenium 389
- GINGIVITIS:**
- Antimony 332
 - Chlorinated lime 316
 - Mercury, inorganic 371
- GLOTTIS – see ‘Larynx’**
- GONADS – see ‘Reproductive System’**
- GRANULOCYTES – see ‘Blood Chemistry, changes in’**
- GRANULOMAS – see affected anatomical parts**
- GRIP:**
- decreased strength:
 - Inorganic lead 363
- GUMS – see ‘Oral Cavity’**
- HAIR:**
- discoloration:
 - Copper 357
 - Dinitrobenzene 275 (yellow)
 - Dinitro-o-cresol 276
 - Tetryl 289 (yellow)
 - Trinitrotoluene 290 (yellow)
 - lesions:
 - Dermatophytoses 70
 - loss of:
 - Arsenic 327
 - Boron 341
 - Chloroprene 197
 - Ionizing radiation 470
 - β -Propiolactone* 303
 - Thallium 396
 - Thallium sulfate 459
- HALLUCINATIONS:**
- Dimethylacetamide 302
 - Manganese 369
 - Mercury, inorganic 371
 - Methylene chloride 210
 - Oxygen (>2 atm) 505
 - Tetraethyl lead 365
- HEADACHE:**
- Acetates 175
 - Acrylonitrile 228
 - Aminodiphenyl 263
 - Ammonia 413
 - Amyl alcohol 152
 - Aniline 265
 - Antimony 332
 - Arsenic 327
 - Arsine 329
 - Benzene 236
 - Boron 340
 - Boron hydrides 343
 - Bromine 315
 - Brucellosis 56
 - 1,3-Butadiene 139
 - n-Butyl alcohol 153

HEADACHE (cont.)

n- Butylamine 222
Calcium cyanamide 230
Carbon dioxide 416
Carbon disulfide 307
Carbon monoxide 418
Cat-scratch disease 47
Chlorinated naphthalenes 259
Chromium 353
Creosote 249
Cresol 247
Diborane 343
Dinitrobenzene 275
Dinitrophenol 278
Dinitrotoluene 279
Dioxane 169
Diphenyl 239
Ethyl alcohol 155
Ethyl chloride 203
Ethylene chlorohydrin 156
Ethylene glycol dinitrate 283
Ethylene glycol ethers 163
Ethyleneimine 295
Ethyl ether 173
Furfural 191
Graphite 420
Heat 500
n-Hexane 142
Hydrogen bromide 315
Hydrogen cyanamide 232
Hydrogen sulfide 423
Hydroquinone 250
Hypobaric environment 507
Inorganic lead 362
Iron pentacarbonyl 361
Kerosene 144
Ketones 193
Leptospirosis 57
Manganese 369
Mercaptans 311
Methyl alcohol 158
Methyl bromide 206
Methyl chloride 208
Methylene chloride 209
Milker's nodules 48
Naphtha 145
Naphthalene 240
Newcastle disease 49
Nickel carbonyl 378
Nitrobenzene 280

Nitrogen oxides 426
Nitroglycerin 283
Nitroparaffins 285
Nitrosodimethylamine 299
Organic tin 400
Organophosphates 454
Ornithosis 53
Ozone 429
Phenol 251
Phosphine 381
Picric acid 287
Pyridine 301
Q-Fever 52
Rabies 46
Rocky Mountain spotted
fever 51
Stibine 390
Tellurium 394
Tetrachloroethane 212
Tetrachloroethylene 214
Tetraethyl lead 364
Tetryl 289
Toluene 243
Trichloroethylene 218
Tularemia 62
Turpentine 149

HEARING:

impaired:
Dinitrobenzene 275
Noise 510
Vinyl chloride 220

HEART – see 'Circulatory System'

HEINZ BODIES – see 'Blood Chemistry, changes in'

HEMATEMESIS:

Acetonitrile 227
Arsenic 326
Arsine 330
Boron 340
Tetrachloroethane 213

HEMATOCRIT – see 'Blood Chemistry, changes in'

HEMATOMA – see 'Skin Conditions'

HEMATOPOIETIC**DYSFUNCTION:**

Benzene 237

Ethylene glycol 161

Thorium 398

also see 'Anemia'

HEMATURIA:

Aminodiphenyl 263

Benzidine 267

Carbon tetrachloride 195

Coumarins 459

Ethylene chlorohydrin 156

Ethyleneimine* 295

Indandiones 459

Naphthalene 240

 β -Naphthylamine 273

Picric acid 288

Turpentine 149

HEMOGLOBIN – see 'Blood Chemistry, changes in'**HEMOGLOBINURIA:**

Acetic acid 179

Arsine 330

Naphthalene 240

Stibine 391

HEMOLYSIS:

Acetic acid 179

Aniline+ 265

Arsine 329

Naphthalene 240

HEMOLYTIC ANEMIA – see 'Anemia'**HEMOPTYSIS:**

Chlorine 318

HEMORRHAGE:

Benzene 236

Gasoline 140

n-Heptane 141

Leptospirosis 57

Xylene 245

also see affected anatomical parts

HEPATITIS:

Arsenic 327

Arsenite 461

Lead arsenate 461

Picric acid 288

Trinitrotoluene 290

HICCUPS:

Boron hydrides 343

HOARSENESS:

Arsenic 327

Bromine 315

Dimethyl sulfate 309

Hydrogen bromide 315

HIVES (Urticaria) – see 'Skin Conditions'**HOT SENSATION:**

Cobalt 356

HYDROPHOBIA:

Rabies 46

HYPERCALCIURIA:

Beryllium 337

Cadmium 347

Phosphorus 384

HYPEREMIA:

Aminodiphenyl 263

Vibration* 516

HYPEREXCITABILITY:

Boron hydrides 343

HYPERKERATOSIS:

Chromoblastomycoses 69

Paraffin 148

HYPERPLASIA; epidermal:

Chromoblastomycoses 69

HYPERSENSITIVITY:

Dinitrophenol 278

HYPERSONMIA:

Manganese 369

HYPERTENSION:

Cadmium* 347

HYPERTENSION (cont.)

Carbon disulfide 307
Dimethylformamide 293
Organophosphates 454

HYPERTHERMIA:

Chlorinated hydrocarbons 457
Dinitro-*o*-cresol 276
Dinitrophenol 278
Heat 500

HYPERVENTILATION:

Diborane 343

HYPOCHOLESTEREMIA:

Vibration+ 517

HYPOGLYCEMIA:

Vibration+ 517

HYPOTENSION:

Ethylene chlorohydrin 156
Tetraethyl lead 365
Tetramethylthiuram disulfide 313

HYPOTHERMIA:

Cold 502
Creosote 249

HYPOXIA:

Aniline 265
Dinitrotoluene 279
Hypobaric environment 507

ICTERUS – see 'Jaundice'**IMMUNOLOGICAL ACTIVITY:**

decreased:
Thorium 398

IMPOTENCY:

Carbon disulfide 307

IMPULSIVENESS:

Manganese 369

INCOHERENCE:

Manganese 369

INCOORDINATION:

Boron hydrides 343

Carbamates 456

Carbon disulfide 307
Chlorinated benzenes 258
Ethyl chloride 203
Fluorocarbons 205
Gasoline 140
n-Heptane
Ketones 193
Mercury, alkyl 373
Molybdenum trioxide* 375
Thallium sulfate 459
Toluene 243
1,1,1-Trichloroethane 216

INDIGESTION:

Boron 341
Bromine 315
Diphenyl 239
Hydrogen bromide 315
Magnesium+ 367
Mercury, inorganic 371
Selenium 389
Sulfuric acid 439

INDURATION:

Creeping eruption 73

INEBRIATION:

Ethyl alcohol 155
Naphtha 145

INFECTION:

increased susceptibility to:
Ionizing radiation 471
secondary:
Rabies 46

INFLAMMATION; local:

Rocky Mountain spotted
fever 51
also see affected anatomical
parts

INORGANIC PHOSPHORUS –

see 'Blood Chemistry,
changes in'

INSOMNIA:

Antimony 332
Carbon disulfide 307
Diphenyl 239

INSOMNIA (cont.)

- Mercury, inorganic 371
- Ornithosis 53
- Pyridine 301
- Tetrachloroethane 213
- Tetraethyl lead 364
- Tetryl 289

INTESTINAL OBSTRUCTION:

- Ascariasis 74
- also see 'GI Tract'

INTRAOCULAR PRESSURE – see 'Eye'

IRRITABILITY:

- Aniline 265
- Carbon disulfide 307
- Chlorinated hydrocarbons 457
- Dinitrobenzene 275
- Dinitrotoluene 279
- Heat 499
- Hypobaric environment 507
- Manganese 369
- Mercury, inorganic 371
- Methylene chloride 209
- Selenium 389
- Tetrachloroethane 213
- Tetryl 289
- also see 'Psychological Disorders'

IRRITATION – see affected anatomical parts

ITCHING (Pruritus):

- Alkyl lead 364
- Antimony 332
- Cold 502
- Copper 357
- Creeping eruption 73
- Creosote 249
- Hookworm disease 73
- Rocky Mountain spotted
fever 51
- Swimmer's itch 72
- Vanadium 405
- Zinc oxide 409
- also see affected anatomical
parts

JAUNDICE:

- nonspecific:
Arsine 330

- Carbon tetrachloride 195
- Chlorinated naphthalenes 259
- Chlorodiphenyls 256
- Dimethylacetamide 302
- Dinitrophenol 278
- Leptospirosis 57
- Naphthalene 240
- Nitrobenzene 280
- n-Nitrosodimethylamine 299
- Ornithosis 53
- Stibine 391
- Tetrachloroethane 213
- Viral hepatitis 50
- hemolytic:
Nitrobenzene 280

JAW – see 'Oral Cavity'

JOINT:

- abscess:
Brucellosis 56
- hematoma:
Coumarins 459
- Indandiones 459
- pain:
Beryllium 337
- Boric acid 341
- Bromine 315
- Decompression 506
- Hydrogen bromide 315
- Manganese 369
- Thallium 396
- Zinc oxide 409

KERATITIS:

- Acetic anhydride 180
- n-Butyl alcohol 153
- Calcium cyanamide 229
- Copper 357
- Creosote 249
- Dimethyl sulfate 309
- Titanium tetrachloride 402

KERATOCONJUNCTIVITIS:

- Hydrogen sulfide 423

KERATOLYSIS:

- Dermatophytoses 70

KERATOSIS:

- Arsenic 326

KIDNEY:

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- 1,2-Dichloroethylene 201
- Dichloroethyl ether 168
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- Ethyleneimine 294
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Food poisoning 59
Heat 500
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Hypobaric environment 507
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Ionizing radiation 471
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Methyl bromide 206
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Nickel carbonyl 378
Nitrogen oxides 426
Nitroglycerin 283
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Organophosphates 454
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Ornithosis 53
Oxygen (>2 atm) 505
Phosphine 381
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Tetrachloroethane 213
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Copper 357

Mercury, inorganic 371

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Tetraethyl lead 364

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Mercury, inorganic 371

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Zinc oxide 409

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n-Heptane 141
Histoplasmosis 67
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Mercury, inorganic 371
Nickel carbonyl 378
Ornithosis 53
Phosgene* 431
Phosphorus 384
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Vanadium 406
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Osmium tetroxide 380

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Hydrogen cyanide 232

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Diborane 343

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Cadmium 347

Calcium cyanamide 230

Chlorinated lime 317

Chlorine 318

CMME 166

Chromium 354

1,2-Dichloroethane 200

Dichloroethyl ether* 168

Dimethyl sulfate 309

Ethyl bromide 206

Ethylene glycol ethers 162

Ethyleneimine 295

Ethylene oxide 172

Fluorine 320

Formaldehyde 189

Gasoline 140

n-Heptane 141

Hydrazine* 298

Hydrogen bromide 315

Hydrogen chloride 323

Hydrogen peroxide 421

Hydrogen sulfide 423

Hypobaric environment 508

Iron pentacarbonyl 361

Isocyanates 234

Kerosene 144

Mercaptans 311

Methyl bromide 206

Methylene chloride 210

Nickel carbonyl 350

Nitrogen oxides 426

Ozone 429

Phosgene 430

Phosphine 381

Phosphorus 384

Selenium 389

Sulfuric acid 439

Tellurium hexafluoride* 394

Tetrachloroethane 213

Turpentine 149

Vanadium 406

Xylene 245

Zinc chloride 407

tracheobronchial:

Sulfuric acid 439

Lung (Pulmonary):

abscess:

Coccidioidomycosis 65

cancer:

nonspecific:

Arsenic 328

Chromium ③ 354

Ethyleneimine* 295

Hematite iron ③ 360

Metal carbonyls* ② 350

4,4-Methylenebis (2-chloroaniline) (MOCA)* 270

Nickel 376

n-Nitrosodimethylamine* 299

Uranium + 404

Vinyl chloride 220

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- Hydrazine 298
- carcinoma:
 - Bis(chloromethyl)ether 164
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 - Beryllium 337
 - Cerium 352
 - Inorganic tin 400
 - Nitrogen oxides 427
 - Pneumoconiosis 116
 - Silicosis 116
- congestion:
 - Antimony 332
- damage:
 - Cadmium 347
 - Chlorinated benzenes* 258
 - Chloroprene 197
 - Epichlorohydrin* 156
 - Ethanolamine* 224
 - Ethylene chlorohydrin 156
 - Ethylenediamine* 225
 - Ethyl silicate* 176
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 - Thorium 398
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 - Alicyclic hydrocarbons* 137
- disease:
 - Beryllium 337
 - Histoplasmosis 66
- eosinophilia:
 - Nickel 377
- fibrosis:
 - Bipyridyl 458
 - Cerium 352
- function, decrease:
 - Beryllium 337
 - Nitrogen oxides 427
 - TDI 234
- hemorrhage:
 - Kerosene 144
 - Ozone* 429
 - Turpentine 149
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 - Osmium tetroxide 380
- proliferative changes:
 - Bipyridyls 458
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 - Sulfur dioxide 437
 - Sulfuric acid 439

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- cancer:
 - Metal carbonyls ② 350
 - Nickel 376
- congestion:
 - Chromium 354
 - Copper 357
- discharge:
 - Bromine 315
 - Formic acid 182
 - Hydrogen bromide 315
 - OCBM 231
 - Phenol 251
 - Phthalic anhydride 184
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 - 'Nasopharyngitis'
- irritation:
 - Acetaldehyde 186
 - Acetates 175
 - Acetic acid 179
 - Acetic anhydride 180
 - Acetonitrile 226
 - Alkyl lead 364
 - Aluminum 324
 - Ammonia 413
 - Amyl alcohol 152
 - Antimony 330
 - Arsenic 326
 - Barium 334
 - Benzene 236
 - Benzyl chloride 254
 - Boron 340
 - 1,3-Butadiene 139
 - n-Butyl alcohol 153
 - n-Butylamine 222
 - Calcium oxide 415
 - Chlorodiphenyls 256
 - CMME 166
 - Copper 357
 - Dioxane 169
 - Dithiocarbamates 460
 - Ethyl alcohol 154
 - Ethyl ether 173
 - Ethyl silicate 176
 - Ethylene chlorohydrin 156
 - Ethylene diamine 225
 - Ethylene glycol ethers 162
 - Ethyleneimine 294
 - Ethylene oxide 172
 - Fluorocarbons 204
 - Furfural 191

RESPIRATORY SYSTEM (cont.)

Germanium tetrachloride 359
 Hydrazine 297
 Hydrogen cyanide 232
 Ketones 192
 Magnesium 367
 Mercaptans 311
 Methyl bromide 206
 Methylene chloride 209
 Molybdenum trioxide 374
 Nickel 376
 Nitroparaffins 285
 OCBM 230
 Ozone 429
 Phosgene 430
 Phosphorus 384
 Platinum 386
 Portland cement 432
 Propyl alcohol 159
 Quinone 253
 Selenium 388
 Styrene 242
 Sulfur chloride 435
 Sulfur dioxide 437
 Tetrachloroethylene 214
 1,1,2-Trichloroethane* 217
 Trichloroethylene 218
 Tinitrotoluene 290
 Turpentine 149
 Xylene 245
 itch:
 Chromium 354
 Sulfuric acid 439
 mucosa:
 proliferative changes:
 Bipyridyls 458
 ulceration:
 Calcium oxide 415
 septum:
 deviated:
 Calcium cyanamide 229
 perforated:
 Arsenic 326
 Calcium oxide 415
 Chromium 354
 Copper salts 357
 Dimethyl sulfate 309
 pigmented:
 Silver nitrate 392
 ulcers:
 Antimony 332

Chromium 354
 Copper salts 357
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 Chromium 354
 Peribronchi:
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 Zirconium* 411
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 Zirconium* 411
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 ‘Pharyngitis’
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 Beryllium 336
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 Respiratory Passages (Tract):
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 Ozone* 429
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 Ozone 429
 inflammation:
 Calcium oxide 415
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 Acetaldehyde 186
 Acetic acid 179
 Allyl alcohol 151
 Ammonia 413
 Amyl alcohol 152
 Arsenic 326
 Benzyl chloride 254
 Boron 340
 Cadmium 347
 Calcium cyanamide 229
 Calcium oxide 415
 Carbonyls* 350
 Chlorinated lime 316
 Chromium 354
 Dichloroethyl ether 168
 Diphenyl 239
 Epichlorohydrin 170
 Ethanolamine* 224
 Ethyl chloride 203
 Ethylene oxide 172
 Fluorine 320
 Formaldehyde 189
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 Gasoline 140
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RESPIRATORY SYSTEM (cont.)

- Hydrogen sulfide 423
- Iron salts 360
- Isocyanates 234
- Nitrogen oxides 426
- Osmium tetroxide 380
- Phosphine 381
- Phosphorus 384
- Phthalic anhydride 184
- Potassium hydroxide 434
- Sodium hydroxide 434
- Sulfur chloride 435
- Tellurium* 394
- Toluene 243
- Turpentine 149
- Vanadium 406
- Zinc chloride 407
- paralysis:
 - 1,3-Butadiene 139
 - Chloroprene 197
- ulcers:
 - Calcium oxide 415
- Throat:
 - burning:
 - Ammonia 413
 - Bipyridyl 458
 - OCBM 231
 - constriction:
 - Arsenic 326
 - dryness:
 - Antimony 332
 - Dinitrobenzene 275
 - Phosphine 381
 - Sulfur dioxide 437
 - Zinc oxide 409
 - inflammation:
 - Acetic acid 179
 - Oxalic acid 183
 - irritation:
 - Acetic acid 179
 - Acetic anhydride 180
 - Acetonitrile 226
 - Alkyl lead 364
 - Amyl alcohol 152
 - Antimony 332
 - Barium 334
 - Benzene 236
 - 1,3-Butadiene 139
 - n-Butyl alcohol 153
 - n-Butylamine 222
 - Calcium oxide 415
 - Chlorodiphenyls 256
 - Copper 357
 - Dioxane 169
 - Dithiocarbamates 460
 - Ethylene chlorohydrin 156
 - Ethylene glycol ethers 162
 - Ethyleneimine 294
 - Ethylene oxide 172
 - Ethyl ether 173
 - Formaldehyde 189
 - Formic acid 182
 - Furfural 191
 - Germanium tetrachloride 359
 - Hydrazine 297
 - Hydrogen cyanide 232
 - Ketones 192
 - Mercaptans 311
 - Methyl bromide 206
 - Methylene chloride 209
 - Molybdenum trioxide 374
 - Nickel 376
 - Nitroparaffins 285
 - OCBM 230
 - Ozone 429
 - Phosgene 430
 - Phosphorus 384
 - Platinum 386
 - Propyl alcohol 159
 - Quinone 253
 - Selenium 388
 - Styrene 242
 - Sulfur chloride 435
 - Sulfur dioxide 437
 - Trichloroethylene 218
 - Trinitrotoluene 290
 - Xylene 245
 - Zinc oxide 409
 - itching:
 - Furfural 191
 - soreness:
 - Dimethyl sulfate 309
 - Fluorine 320
 - Mercury, inorganic 371
 - Vanadium 406
 - tickling:
 - Sulfuric acid 439
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 - obstruction:
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Rhonci (rales) – see 'Rales'

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RETROSTERNAL PAIN:

Nickel carbonyl 378

RHINITIS:

nonspecific:

Calcium cyanamide 229

Dimethyl sulfate 309

Hydrogen sulfide 423

Sulfur dioxide 437

Tetramethylthiuram
disulfide 313

hemorrhagic:

Vanadium 406

RHINORRHEA:

Sulfuric acid 439

SALIVATION:

Ammonia 413

Carbamates 456

Copper salts 357

Creosote 249

Cresol 247

Formic acid 182

Mercury, inorganic 371

OCBM 231

Organophosphates 454

SARCOMA:

Benzyl chloride* 254

Cadmium* 347

Ethyleneimine* 295

also see affected anatomical
parts

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nonspecific:

Chlorinated hydrocarbons 457

Organophosphates 455

epileptiform:

Chlorinated hydrocarbons 457

SENSITIZATION:

Acrolein 188

Arsenic 326

Benzidine 267

Beryllium 336

Calcium cyanamide 229

Carbon disulfide 307

Chromium 353

1,2-Dibromoethane 199

Dinitrophenol 277

Diphenyl 239

Ethylenediamine 225

Ethyleneimine 294

Hydrazine 297

Hydroquinone 250

Isocyanates 234

Mercury, alkyl 373

Mercury, inorganic 371

Nickel 376

OCBM* 231

Picric acid 287

Platinum 386

Portland cement 432

Pyridine 301

Sulfur dioxide 437

Tetryl 289

Thallium salts 396

Zinc chloride 407

SENSORY IMPAIRMENT:

Diphenyl 239

Mercury, alkyl 373

Tricresyl phosphates 305

SEPTICEMIA:

Anthrax 55

Erysipeloid 61

Food poisoning 59

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Arsine 329

Calcium cyanamide 230

Cold 502

Diborane 343

SHOCK:

Acetonitrile 227

Anthrax 55

SHOCK (cont.)

Arsenic 327
Boron 340
Coumarins 459
Indandiones 459
Ionizing radiation 471
Oxalic acid 183
Phenol 251

SKIN CONDITIONS:

abscesses:

Chromoblastomycoses 69

actinic – see 'Dermatitis'

bleaching:

Hydrogen peroxide 421

boils:

Paraffin 148

burns:

Acetic anhydride 180
Acrolein 188
Allyl alcohol 151
Ammonia 413
Bromine 315
n-Butylamine 222
Calcium oxide 415
Chlorinated benzenes 258
Chloroform 196
Cresol 247
Ethylene oxide 172
Hydrogen bromide 315
Laser 494
Magnesium 367
Mercury, alkyl 373
Methyl bromide 206
Methylene chloride 209
Nitrogen oxides 426
OCBM 231
Organic tin 400
Phenol 251
Phosphorus 384
Phthalic anhydride 184
Sulfuric acid 438
Titanium tetrachloride 402

cancer

nonspecific:

Arsenic 326
Chloroprene 198
Creosote 249
 β -Propiolactone 303

carcinoma:

Bis(chloromethyl)ether* 164
CMME* 166

sarcoma:

β -Propiolactone* 303

caruncle:

Silver nitrate 392

chloracne:

Chlorinated naphthalenes 259
Chlorine 318
Chlorodiphenyls 256

cold and clammy:

Heat 500

Nickel carbonyl 378

comedones (Blackheads):

Chlorinated naphthalenes 259
Chlorodiphenyls 256

damage:

Acetic acid 179
Selenium 388

darkening:

Acetic acid 179

dermatitis – see 'Dermatitis'

desquamation:

Calcium oxide 415
Picric acid 287

discoloration,

nonspecific:

Chromium 354
Copper 357
Dinitrobenzene 275
Dinitro-o-cresol 276
Dinitrophenol 277
Nitrogen oxides 426
Osmium tetroxide 380
Phenol 252
Picric acid 287
Quinone 253
Silver 392

grey, brown on infants:

Chlorodiphenyls 256

melanoderma (pigmentation):

Arsenic 327
Creosote 249
Paraffin 148

white:

Cresol 247
Phenol 251

yellow:

Nitrogen oxides 426
Picric acid 287
Tetryl 289
Trinitrotoluene 290

drying, cracking:

Alicyclic hydrocarbons 137
Benzene 236
Boron 341

SKIN CONDITIONS (cont.)

Carbon tetrachloride 195
 1,2-Dichloroethane 200
 Dioxane 169
 Ethyl alcohol 155
 Ethyl oxide 173
 Gasoline 140
 Kerosene 144
 Ketones 192
 Methyl alcohol 158
 Methylene chloride 209
 Naphtha 145
 Nitroparaffins 285
 Platinum 387
 Propylene dichloride 211
 Styrene 242
 Tetrachloroethane 212
 Tetrachloroethylene 214
 Toluene 243
 1,1,1-Trichloroethane 215
 Xylene 245
 eczema – see 'Dermatitis'
 eschar (scab):
 Anthrax 55
 granuloma:
 Beryllium 336
 hematoma:
 Coumarins 459
 Indandiones 459
 hemorrhage:
 Benzene 237
 Ionizing radiation 471
 Rocky Mountain spotted fever 51
 hot, dry:
 Heat 500
 irritation:
 Acetaldehyde 186
 Acetates 175
 Acetic acid 179
 Acridine 292
 Acrylonitrile 228
 Allyl alcohol 151
 Ammonia 413
 Amyl alcohol 152
 Antimony 332
 Arsenic 326
 Barium 334
 Benzene 236
 Bis(chloromethyl)ether 164
 Boron hydrides 342

Bromine 314
 n-Butyl alcohol 153
 Calcium cyanamide 229
 Calcium oxide 415
 Carbon disulfide 307
 Chlorinated benzenes 257
 Chlorinated lime 316
 Chlorine 318
 CMME 166
 Chloroprene 197
 Cobalt 355
 Copper 357
 Dimethyl sulfate 309
 Diphenyl 239
 Dithiocarbamates 460
 Epichlorohydrin 170
 Ethanolamine* 224
 Ethylene chlorohydrin 156
 Ethylene glycol ethers 162
 Ethyleneimine 294
 Ethylene oxide 172
 Ethyl bromide 206
 Ethyl chloride 203
 Ethyl formate 178
 Fluorine 320
 Formic acid 182
 Furfural 191
 Gasoline 140
 Germanium tetrachloride 359
 Hexamethylenetetramine 296
 Hydrazine 297
 Hydrogen bromide 314
 Hydrogen chloride 322
 Hydrogen cyanide 232
 Hydrogen peroxide 421
 Iron salts 360
 Isocyanates 234
 Kerosene 143
 Mercaptans 311
 Mercury, alkyl 373
 Mercury, inorganic 371
 Methyl bromide 206
 Naphtha 145
 β-Naphthylamine 273
 Nitroparaffins 285
 Oxalic acid 183
 Phosphorus 384
 Phthalic anhydride 184
 Picric acid 287
 Platinum 387
 Propylene dichloride 211

SKIN CONDITIONS (cont.)

Pyridine 300
 Quinone 253
 Silver nitrate 392
 Styrene 242
 Sulfur chloride 435
 Sulfuric acid 439
 Tetramethylthiuram disulfide 313
 Thallium salts 396
 Tin 400
 Titanium tetrachloride 402
 Toluene 243
 Vanadium 405
 Vinyl chloride 220
 Zinc chloride 407

lesions:

nonspecific:

Antimony 332
 Arsenic 327
 Beryllium 336
 Bromine 314
 Candidiasis 63
 Chromoblastomycoses 69
 Dermatophytoses 70
 Hydrogen bromide 314
 Ionizing radiation 471
 Mycetoma 67
 Tin 400
 Vanadium 405
 Zinc oxide 409

blisters:

Acrylonitrile 228
 Ammonia 413
 Bromine 314
 Carbon disulfide 307
 Cold 502
 1,2-Dibromoethane 199
 Epichlorohydrin 170
 Ethylene oxide 172
 Formic acid 182
 Hydrogen bromide 314
 Hydrogen peroxide 421
 Laser 494
 Toluene diisocyanate (TDI) 234

macule:

nonspecific:

Arsenic 326
 Cat-scratch disease 47
 Rocky Mountain spotted fever 51
 Swimmer's itch 72

eczchymosis:

Coumarins 459

Indandiones 459

papule:

Antimony 332
 Cat-scratch disease 46
 Chlorinated naphthalenes 259
 Paraffin 148
 Picric acid 287
 Quinone 253
 Rocky Mountain spotted fever 51
 Swimmer's itch 72

pustule:

Antimony 232
 Arsenic 326
 Cat-scratch disease 47
 Chlorinated naphthalenes 259
 Chlorodiphenyls 256
 Orf 48

ulcer:

Bromine 314
 Calcium cyanamide 229
 Chromium 354
 Cold 502
 Creosote 249
 1,2-Dibromoethane 199
 Hydrogen bromide 314
 Nitrogen oxides 426
 Osmium tetroxide 380
 Quinone 253

vesicle (bullae):

Anthrax 55
 Arsenic 326
 Arsenite 461
 Benzene 236
 Bromine 314
 Calcium oxide 415
 Cat-scratch disease 47
 Creosote 249
 Dermatophytoses 70
 Dimethyl sulfate 309
 Ethyleneimine 294
 Heat 500
 Hydrogen bromide 314
 Lead arsenate 461
 Methyl bromide 206
 OCBM 231
 Picric acid 287
 β -Propiolactone 303
 Quinone 253
 Selenium 388

SKIN CONDITIONS (cont.)

loss of feeling – see 'Numbness'

melanoderma – see 'Skin, discoloration'

necrosis:

CMME* 166

Cold 502

Decaborane 343

Nitrogen oxides 426

Pentaborane 343

numbness:

Cresol 247

papilloma:

Bis(chloromethyl)ether* 164

β -Propiolactone* 303

paresthesia:

Cold 502

Cresol 247

Toluene 243

peeling:

Boron 340

petechiae:

Coumarins 459

Indandiones 459

Rocky Mountain spotted fever 51

pigmentation – see 'Skin, discoloration'

proliferative changes:

Bipyridyls 458

rash:

nonspecific:

Boron 340

Bromine 315

Cresol 247

Dinitrophenol 278

Hexamethylenetetramine 296

Hydrogen bromide 315

Phenol 252

Selenium 388

macular – see 'Skin, lesions'

papular – see 'Skin, lesions'

purpuric:

Tetrachloroethane 213

vesicular – see 'Skin, lesions'

urticaria:

Ammonium 413

Formaldehyde 189

Phthalic anhydride 185

Platinum 387

Selenium 388

Tetramethylthiuram disulfide 313

Vanadium 405

redness:

Alkyl lead 364

Carbon monoxide 418

Cold 502

Ethanolamine 224

Toluene diisocyanate (TDI) 234

softening:

Cresol 247

swelling:

Quinone 253

Toluene diisocyanate (TDI) 234

wrinkling:

Cresol 247

yellowing:

Picric acid 288

SLEEP:

disturbed:

Inorganic lead 362

SMELL:

altered sense of:

Sulfur dioxide 437

loss of sense – see 'Anosmia'

SNEEZING:

Acridine 292

Acrylonitrile 228

Alkyl lead 364

Phthalic anhydride 184

Platinum 387

Sulfuric acid 439

Tetramethylthiuram disulfide 313

Tetryl 289

Trinitrotoluene 290

SOMNOLENCE – see 'Drowsiness'

SPASMS:

Manganese 369

β -Propiolactone* 303

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SPEECH: impaired – see 'Dysphasia'

SPLEEN:

abscess:

Aspergillosis 64

Brucellosis 56

congestion:

Gasoline 140

damage:

Chloroprene 198

Nitrobenzene 280

granulomas:

Aspergillosis 64

SPUTUM:

production of:

Phosgene 430

black:

Graphite 420

STAGGERING:

Carbon disulfide 307

Hydrogen sulfide 423

Mercaptans 311

Organophosphates 454

Phosphine 381

Toluene 243

Xylene 245

STERILITY:

Ionizing radiation 470

STILLBIRTH:

Chlorodiphenyls 256

STOOL:

bloody:

Antimony 332

Arsenic 326

Coumarins 459

Indandiones 459

STOMACH – see 'GI Tract'**STRABISMUS:**

Thallium 396

STUPOR:

Alicyclic hydrocarbons 137

Chlorinated hydrocarbons 457

Methylene chloride 209

Ornithosis 53

Tetrachloroethane 213

SUBSTERNAL PAIN:

Ammonia 413

Ozone 429

SUFFOCATION:

sense of:

Hydroquinone 250

SUICIDAL TENDENCIES:

Carbon disulfide 307

SULFHEMOGLOBIN – see

'Blood Chemistry, changes in'

SUNLIGHT:

symptoms enhanced:

Dinitrobenzene 275

SWALLOWING: difficulties –

see 'Dysphagia'

SWEATING:

nonspecific:

Ammonia 413

Cadmium 347

Carbamates 456

Dinitro-o-cresol 276

Dinitrophenol 278

Heat 500

Hypobaric environment 507

Naphthalene 240

Nickel carbonyl 378

Organophosphates 454

Tellurium 394

Tetrachloroethane 212

Tetrachloroethylene 214

nocturnal:

Tuberculosis 60

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anatomical parts

SYMPATHETIC NERVOUS

SYSTEM – see 'Neurological Disorders'

SYNCOPE – see 'Fainting'**TACHYCARDIA:**

Boron 340

Chlorinated hydrocarbons 457

TACHYCARDIA (cont.)

Dimethyl sulfate 309
Dinitro-o-cresol 276
Dinitrophenol 278

TASTE:

loss of:
Furfural 191

TEETH:

corrosion:
Chlorine 318
Sulfuric acid 439
discoloration:
Cadmium 346
Hydrogen chloride 323
Nitrogen oxides 426
erosion:
Chromium 354
Sulfuric acid 439
increased susceptibility to caries
Phosphorus 384
loosening:
Mercury, inorganic 371
mottling of enamel:
Fluorine 320

TEMPERATURE: decrease – see

'Hypothermia'
increase – see 'Hyperthermia'

TENDON:

reflexes slowed:
Thallium 396

TENESMUS:

Phosphine 381

TERATOGENESIS

Cadmium* 347
Chlorodiphenyls 256
Chloroprene* 198
Molybdenum* 375
Tellurium* 394

TESTICLE – see 'Reproductive System'

THIRST:

Arsine 329
Dinitrobenzene 275
Dinitro-o-cresol 276

Dinitrophenol 278
Ethylene chlorohydrin 156
Phosgene 430
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THROAT – see 'Respiratory System'

THROMBOCYTOPENIA

(Thrombopenia):
Benzene 237

THROMBOCYTOSIS:

Tetrachloroethane 213

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'Thrombocytopenia'

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dysfunction:
Bromine 315
Hydrogen bromide 315

TINGLING – see 'Paresthesia'
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TINNITUS:

Cresol 247
Dinitrobenzene 275
Hydroquinone 250
Phenol 251
Turpentine 149

TONGUE – see 'Oral Cavity'

TONSILLAR PILLARS:

pigmented:
Silver nitrate 392

TRACHEA – see 'Respiratory System'

TRACHEOBRONCHIAL

EDEMA – see 'Respiratory System'

TRACHEITIS:

Vanadium 406

TREMORS:

Carbon disulfide 307

TREMORS (cont.)

Diborane 343
Diphenyl 239
Ethylene glycol ethers 163
Ethyl alcohol 155
Fluorocarbons 205
Furfural 191
Hydrogen sulfide 424
Hydroquinone 250
Manganese 369
Mercury, alkyl 373
Mercury, inorganic 371
Methyl bromide 206
Tetrachloroethane 212
Tetraethyl lead 365
Trichloroethylene 218

ULCERS:

Calcium oxide 415
Decaborane 343
Hydrogen chloride 322
Ionizing radiation 471
Oxalic acid 183
Pentaborane 343
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UNCONSCIOUSNESS:

Acetates 175
Acetonitrile 227
Aniline 265
Boron hydrides 343
Carbon dioxide 416
Chlorinated benzenes 258
Chlorinated hydrocarbons 457
Cresol 247
Dichloroethyl ether* 168
Dinitrobenzene 275
Dinitrotoluene 279
Ethylene chlorohydrin 156
Ethylene glycol 161
Ethylene oxide 172
Ethyl chloride 203
Ethyl ether 173
Fluorocarbons 205
Gasoline 140
Hydrogen cyanide 232
Hypobaric environment 507
Ketones 193
Methyl alcohol 158
Methyl formate 178

Naphtha 145
Natural gas 147
Nitrobenzene 280
Organophosphates 455
1,1,1-Trichloroethane 216
Trichloroethylene 218
Trinitrotoluene 290
Xylene 245

UREA – see 'Blood Chemistry,
changes in'

UREMIA:

Arsine 330

URINARY RETENTION:

Organic tin 400

URINARY TRACT:

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Aminodiphenyl 263
hemorrhages:
Benzene 237
irritation:
Hexamethylenetetramine 296

URINE:

acid mucopolysaccharides:
Nitrogen oxides 427
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amino acids – see
'Aminoaciduria'
blood – see 'Hematuria'
calcium – see 'Hypercalciuria'
casts:
Ethylene chlorohydrin 156
Tetrachloroethane 213
discoloration:
Hydroquinone 250
Phenol 251
glucose:
Cadmium 347
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'Hemoglobinuria'
hydroxyproline:
Nitrogen oxides 427
phosphates:
Cadmium 347
Phosphorus 384
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white cells:
Carbon tetrachloride 195

URTICARIA – see 'Skin
Conditions, Rash'

VAGINA – see 'Reproductive
System'

VAGUS STIMULATION:
Nitrophenol* 286

VASCULATURE – see
'Circulatory System'

VENTRICULAR FIBRILLATION:
Benzene 237

VERTIGO:
Amyl alcohol 152
Bromine 315
1,3-Butadiene 139
Chlorinated naphthalenes 259
Creosote 249
Diborane 343
Dinitrophenol 278
n-Heptane 141
Hydrogen bromide 315
Methyl bromide 206
Nitrobenzene 280
Oxygen (>2 atm) 505
Phosphine 381
Picric acid 287
Trichloroethylene 218

VESICLES – see 'Skin
Conditions, lesions'

VISION:
blurred:
Methyl chloride 208
Organophosphates 455
Trichloroethylene 218
impaired:
Cresol 247
Dimethyl sulfate 309
Dinitrobenzene 275
Hydrogen chloride 323
Hydroquinone 250

Mercury, alkyl 373
Methyl bromide 206
Methyl chloride 208
Oxygen (>2 atm) 505
Ozone 429
Quinone 253
Vinyl chloride 220

VOMITING:
Acetonitrile 227
Acrylonitrile 228
Ammonia 413
Amyl alcohol 152
Antimony 332
Arsenic 326
Arsenite 461
Arsine 329
Beryllium 336
Bipyridyl 458
Boron 340
Calcium cyanamide 230
Carbamates 456
Carbon monoxide 418
Carbon tetrachloride 195
Chlorinated hydrocarbons 457
Chlorine 318
Chlorodiphenyls 256
Cobalt 356
Copper salts 357
Creosote 249
Cresol 247
1,2-Dibromoethane 199
1,2-Dichloroethylene 202
Dimethylformamide 293
Dinitrobenzene 275
Dinitrophenol 278
Dinitrotoluene 279
Dioxane 169
Epichlorohydrin 170
Ethylene chlorohydrin 156
Ethylene glycol dinitrate 283
Ethyleneimine 295
Ethylene oxide 172
Ethyl oxide 173
Fluorine 320
Food poisoning 59
Formic acid 182
Hydrogen cyanide 232
Hydroquinone 250
Hypobaric environment 507
Inorganic lead 363

VOMITING (cont.)

Ionizing radiation 471
Isocyanates 234
Kerosene 144
Ketones 193
Lead arsenate 461
Leptospirosis 57
Mercaptans 311
Methyl bromide 206
Naphthalene 240
Nickel carbonyl 378
Nitrobenzene 280
Nitrogen oxides 426
Nitroglycerin 283
Nitroparaffins 285
n-Nitrosodimethylamine 299
OCBM 231
Organic tin 400
Organophosphates 454
Ornithosis 53
Phenol 252
Phosphine 381
Picric acid 287
Pyridine 301
Tetryl 289
Trichloroethylene 218
Tricresyl phosphates 305
Xylene 245
bloody - see 'Hematemesis'

WEAKNESS:

Acetonitrile 227
Acrylonitrile 228
Aniline 265
Arsenic 327
Arsenite 461
Beryllium 336
Boron 340
Brucellosis 56
Cadmium 347
Carbon disulfide 307
Dinitrobenzene 274
Dinitro-o-cresol 276
Dinitrophenol 278
Dinitrotoluene 279

Hydrogen cyanide 232
Hydrogen sulfide 424
Ionizing radiation 471
Lead arsenate 461
Manganese 369
Mercury, inorganic 371
Nickel carbonyl 378
Nitrobenzene 280
n-Nitrosodimethylamine 299
Organophosphates 454
Phenol 251
Phosphine 381
Picric acid 287
Stibine 390
Tellurium 394
Trinitrotoluene 290
Zinc chloride 409

WEIGHT LOSS:

Arsenic 327
Arsenite 461
Beryllium 336
Brucellosis 56
Chlorinated hydrocarbons 457
Chromium 353
Dinitro-o-cresol 276
Lead arsenate 461
Mercury, inorganic 371
Molybdenum trioxide 375
Tetraethyl lead 365

WHEEZING:

Chromium 353
Diborane 343
Isocyanates 234
Nitrogen oxides 427

WHITE CELL COUNT:

abnormal:
Ornithosis 53
also see 'Leukocytosis' (increase)
also see 'Leukopenia' (decrease)

WRIST DROP:

Inorganic lead 363