

1,1,1-trichloroethane	62	Anti-perspirants	45
1,2-dihydroxyanthraquinone	70	Ant venom	23
2,6-dichlorophenolindophenol	70	Aspirin	26
2-ethanoyloxybenzoic acid	26	Asthma	2, 82
2-hydroxybenzoic acid	26	Autoclave	99
2-hydroxypropane-1,2,3-tricarboxylic acid	25		
2-methylpropan-1-ol	66	Bacteria	1, 9, 76
2-methylpropan-2-ol	66	Bacteriophage lambda	77
3-methylbutan-1-ol	66	Baking powder	25
		Baking soda	33
Abattoirs	72	Barium chloride	42
Acetaldehyde	68	Barium compounds	42
Acetic acid	23	Barium sulfate(VI)	42
Acetone	61	Basic fuchsin	70
Acid blue 40	70	Bath salts	33
Acids	20, 21, 22, 23, 24, 25, 26	Batteries	10, 46, 48, 99
Acridine orange	70	Battery acid	22
Activated carbon	58	Benedict's solution	4, 40
Active chlorine	9	Beakers, handling hot	95
Agar plates	1, 9, 67	Bees	73
Air pollutants	52, 53	Benzene	63
Albustix	5	Beta (β) radiation	11
Alcohol	4, 8, 9, 60	Bicarbonate of soda / 'bicarb'	33
Aldehyde tests	46	Biogas	76
Alizarin	70	Biohazard symbol	91b
Alizarin red S	70	Biological detergents	2
Alkalis	30, 31, 32, 80	Biological waste	99
Alkali metals	80	Bioreactor	76
Alpha radiation (α)	11	Birds	73
Alum	38, 45, 47	Biuret test	4
Alumina	45	Blackboard chalk	33, 36
Aluminium (metal)	45	Blades	71
Aluminium chloride	45	Bleach	9, 41
Aluminium hydroxide	45	Blood	3
Aluminium oxide	45	Blood pressure	7
Aluminium potassium sulfate(VI)	45	Blue-green algae	75
Aluminium sulfate(VI)	45	Blue dextran	70
Aluminon	70	Bright lights	6
Ammeters	99	Brine shrimps	73
Ammonia	30	Body fluids	3
Ammonium carbonate	37	Body measurements	6
Ammonium chloride	37	Boiling chips	93, 94, 95
Ammonium dichromate(VI)	47	Boiling tubes	93, 94
Ammonium hydroxide	30	Bones	72
Ammonium iron(II) sulfate	38	Boracic acid	39
Ammonium iron(III) sulfate	38	Borax	39
Ammonium nitrate(V)	37	Boric acid	39
Ammonium purpurate	70	Bottles	98
Ammonium sulfate(VI)	37	Breathing	7
Ammonium sulfide	59	Brilliant yellow	70
Amphibia	73	Brimstone	82
Amyl alcohol	66	Bromine	55
Amylase	2	Bromine water	55
Aniline blue	70	Bromocresol green	70
Animals	72, 73, 75	Bromophenol blue	70
Anti-bumping granules	93, 94	Bromothymol blue	70

BSE	72	Citrus fruits	25
Buckminsterfullerene	58	Clinistix	5
Bunsen burners	92, 93, 94	Cobalt chloride	8
Butanal	68	Cobalt thiocyanate	8
Butane	63	Cochineal	70
Butan-1-ol	66	Cola drinks	8, 24
Butan-2-ol	66	Cole's modification of Millon's test	5
Butchers	72	Colour blindness	6
Butyl alcohol	66	Completely denatured alcohol	60
Butyraldehyde	68	Congo red	70
Cacti	74	Control measures	96a
Caffeine	8	Copper (metal)	40
Calcium (metal)	81	Copper(II) carbonate	40
Calcium chloride	36	Copper(II) chloride	40
Calcium bicarbonate	33	Copper(II) nitrate(V)	40
Calcium carbonate	33	Copper(I)/(II) oxide	40
Calcium ethanedioate	25	Copper pyrites	59
Calcium hydrogencarbonate	33	Copper(II) sulfate(V)	40, 82
Calcium hydroxide	32	Copper(II) sulfide	59
Calcium nitrate(V)	36	Corrosive	91a
Calcium oxalate	25	Cotton blue	70
Calcium oxide	32	Cresol red	70
Calcium sulfate(VI)	36	Crystal violet	70
Calor gas	63	Cultures	1
Camping gas	63	Cupric oxide	40
Cane sugar	64	Cuprous oxide	40
Carbohydrates	4, 64	Currents	10
Carbon	58	Cutting board	71
Carbon blocks	58	Cyclohexane	63
Carbon dioxide	58, 76	Cyclohexene	63
Carbon disulfide	59	Daffodils	74
Carbon monoxide	58	Dangerous for the environment	91a
Carbon tetrachloride	62	DCPIP	5, 70
Carmine	70	Decolourising charcoal	58
Castor oil plant	74	Dental mirrors	6, 9
Catalase	2	Deodorants	45
Cattle	72	De-scalers	23, 24
Caustic soda	31	Detergents, biological	2
Cells (biological)	3	Dextrose	64
Cells (electrical)	10, 46, 48, 99	Diabetes	64
Cellulase	2	Diamond	58
Cellulose	64	Diastase	2
Chalk	33	Diazine green	70
Charcoal	58	Dichloromethane	62
Chattaway spatula	97	Dichlorophenolindophenol	5, 70
Cheek cells	3, 77	Dichromates(VI)	47
Chemicals on skin	8	Diesel oil	63
Chickens	72	Dietary fibre	64
Chimney sweeps	58	2,3-dihydroxybutanedioic acid	25
Chlorinated hydrocarbons	62	Dimethylbenzene	63
Chlorine	9, 41, 54	Dinitrogen oxide	53
Chlorine water	54	Dinitrogen tetroxide	53
Chloroform	62	Diphenylthiocarbazon	70
Chlorophyll, extraction from leaves	94	Dipotassium peroxomonosulfate	9
Chrome alum	47	Direct dye 28	70
Chromium	47	Direct red 23	70
Chromium(III) salts	47	Disclosing tablets	8
Chromates(VI)	47	Disinfectant	1, 9, 41, 99
Citric acid	25	Disodium fluorescein	70

Disodium tetraborate-10-water	39	Fermenter	76
Disperse yellow 7	70	Ferric alum	38
Dissection	71, 72, 99	Ferric ammonium sulfate	38
Dissection tray	71	Ferric bromide	38
Dithizone	70	Ferric carbonate	38
DNA	77, 78	Ferric chloride	38
'Do not discard' symbol	99	Ferric oxide	38
<i>Domestos</i>	9	Ferric sulfate	38
Drain cleaner	31	Ferrous bromide	38
Drinking in laboratories	8, 64	Ferrous carbonate	38
Dropping bottles	98	Ferrous chloride	38
Droppings	73	Ferrous oxide	38
Dry-cleaning solvent	62	Ferrous sulfate	38
Dry ice	58	Fibre	64
Drying agent	36	Fieldwork	75
Dyes	70	Finger dabs	1
		Fire extinguisher	91b
Ear lobe attachment	6	Fire-fighting signs	91b
Eating in laboratories	8, 64	First aid signs	91b
Eclipses	12	Fish	72, 73
<i>E. coli</i>	1, 78	Fishmongers	72
Effluent	99	Fixing agent	72
Electrical and electronic equipment	99	Flames	92
Electricity	10	Flammable	91a
Electric shock	10, 91b	Flammables	60, 61, 63, 65, 66, 68, 80, 81, 82, 94
Electrolysis	10, 40, 47, 49, 54	Fluorescein	70
Electromagnetic radiation	12	Food	1, 4, 5, 25, 31, 40
Electrophoresis	77	Food additives	25, 33, 34, 35, 36, 37, 46, 64
Emergency signs	91b	Food tests	4, 5
Emergency actions	96b	Fool's gold	59
Engine oil	63	Formaldehyde	9, 67
Environmental hazard	91a	Formalin	9, 67, 72
Environmental samples	1	Formic acid	23
Enzymes	2	French beans	74
Eosin (Y)	70	Fructose	64
Epsom salts	36	Fruit sugar	64
Eriochrome black (T)	70	Fungi	1, 9, 74
Etching solution	38	Fur	33
Ethanal	68		
Ethanal tetramer	68	Galvanised iron	38, 49
Ethane	63	Gamma (γ) radiation	11, 12, 74
Ethanedioic acid	25	Gasoline	63
Ethanoic acid	23	Gas under pressure	91a
Ethanol	4, 9, 60, 72	Genetics tests	6, 8
Ethidium bromide	70, 77	Genetic modification	78
<i>Euphorbia</i>	74	Genetically modified organisms	78
Evaporation tests	8	Gentian violet	70
Exercise	7	GHS	91a
Explosive	91a	Giant hogweed	74
Extremely flammable	91a	Glauber's salt	34
Eye colour	6	Global warming	58
Eye protection (symbol)	91b	Globally harmonised system	91a
Eye wash station	91b	Gloves	97, 98
Eyes	6, 72	Glucose	64
		GMOs	78
Faeces	75	Goats	72
Farm animals	73	Gram's stain	70
Fats	4	Grapefruit	25
Feathers	73	Graphite	58
Fehling's solution	4, 31, 40	Greenhouse effect	58

Group I metals	80	Iron(II) bromide	38
Group II metals	81	Iron(II) carbonate	38
Gypsum	36	Iron(II) chloride	38
		Iron(II) oxide	38
Haematite	38	Iron(II) sulfate	38
Haematoxylin	70	Iron(III) bromide	38
Hair	1, 73	Iron(III) carbonate	38
Hand protection (symbol)	91b	Iron(III) chloride	38
Handling liquids	98	Iron(III) oxide	38
Handling solids	97	Iron pyrites	59
Hard hats	75	Iron(III) sulfate	38
Hard water	33, 36	Iron(II) sulfide	59
Harmful	91a	Irritant	91a
Hay fever	74, 75	<i>iso</i> -amyl alcohol	66
Hazard statement	91a	<i>iso</i> -butanol	66
Hazard symbols	91a, 91b	<i>iso</i> -propanol	66
Hazardous chemical disposal	99	<i>Izal</i>	9
Hazards	96a		
Health hazard	91a	Janus green B	70
Hearing	6	<i>Jeyes Fluid</i>	9
Heart disease	64		
Hearts	72	Kerosene	63
Heating	92, 93, 94, 95	Kidneys	72
Heptane	63	Knives	71
Hexamine	68		
Hexane	63	Laburnum	74
HHSNNA	70	Lactose	64
Highly flammable	91a	Laevulose	64
Highly flammables	60, 61, 63, 65, 66, 68, 80 81, 82, 94	Lampblack	58
		Lasers	12, 91b
Humans, investigations on	3, 6, 7, 8	Lead (metal)	43
Human samples	1, 3	Lead acetate	43
Human tissues	3, 77	Lead bromide	43
Hyacinth bulbs	74	Lead chromate(VI)	47
Hydrated magnesium sulfate(VI)	36	Lead compounds	43, 47
Hydrated sodium carbonate	33	Lead ethanoate	43
Hydrated sodium sulfate(VI)	34	Lead nitrate(V)	43
Hydrocarbons	63	Lead oxides	43
Hydrochloric acid	20	Lemon juice	25
Hydrogen	50	Licensed waste carrier	99
Hydrogen chloride	20	Light	6, 12
Hydrogen peroxide	57	Light bulbs	99
Hydrogen sulfide	38, 59	Lighter fuel	63
		Lime	32
IMS	60	Limestone	33
Indicators	70	Lime scale	33
Indigestion tablets	45	Limewater	32
Indigo	70	Lipase	2
Indigo carmine	70	Lipids	4
Indoor fireworks	47	Liquid paraffin	63
Industrial denatured alcohol	9, 60, 65	Lithium (metal)	80
Industrial methylated spirit	9, 60	Litmus	70
Infra-red	12	Lotoxane	62
Insects	73	'Lo-salt'	34
Invertebrates	73	Lungs	72
Investigations on humans	6	Lung-volume bag	7
Iodine	4, 56	Lyme disease	75
Ionising radiation	11	Lysol	9
Iron (metal)	38, 82		
Iron filings	38	'Mad Hatter'	44

Magenta	70	Minimata disease	44
Magnesium (metal)	81	Mixing liquids	98
Magnesium bicarbonate	33	Mixing solids	97
Magnesium carbonate	33	Mobile phones	99
Magnesium chloride	36	Model risk assessments	96a
Magnesium hydrogencarbonate	33	Model steam engines	68
Magnesium nitrate(V)	36	Moderate hazard	91a
Magnesium sulfate(VI)	36	Moulds	1
Magnetite	38	Mouthpieces, shared	7, 9
Mains supply	10	Murexide	70
Malachite green	70	Mushrooms	74
Maltose	64		
Malt sugar	64	Nail polish (varnish) remover	61
Mammals	73	<i>n</i> -amyl alcohol	66
Mandatory signs	91	Nanotubes	58
Manganese (metal)	48	Naphthalene	63
Manganese dioxide	48	Natural red 4	70
Manganese(II) carbonate	48	Natural gas	63
Manganese(II) chloride	48	<i>n</i> -butanol	66
Manganese(II) salts	48	Nettles	74
Manganese(II) sulfate(VI)	48	Neutral red	70
Manganese(IV) oxide	48	Nigrosin(e)	70
Manometer	7	Nitric(V) acid	21
Manure	76	Nitrogen dioxide	53
Marble	33	Nitrogen monoxide	53, 59
Matches	82	Nitrogen oxides	53
May-Grunwald stain	70	<i>n</i> -propanol	66
MDF	67	Nuffield spatula	97
Medicinal paraffin	63		
Mercury (metal)	44	<i>o</i> -acetylsalicylic acid	26
Mercury chlorides	44	Obesity	64
Mercury compounds	5, 44	Oil (for oil baths)	63
Mercury nitrates(V)	44	Oil of wintergreen	26
Mercury oxides	44	Oranges	25
Metaphosphoric acid	24	Orcein	70
Methanal	9, 67, 72	Orthophosphoric acid	24
Methane	63, 76	Oven cleaner	31
Methanoic acid	23	Oxalic acid	25
Methanol	66	Oxidising	91a
Methylated spirit	60, 66	Oxygen	51
Methylbenzene	63	Ozone	51
Methyl 2-hydroxybenzoate	26		
Methyl alcohol	66	Paint stripper	62
Methyl blue	70	Paraffin	63
Methyl chloroform	62	Paraffin oil	63
Methyl green	70	Paraffin wax	63
Methyl orange	70	Pathogens	1
Methyl red	70	Patton & Reeder's indicator	70
Methyl salicylate	26	PCR	77
Methyl violet	70	Peak-flow meter	7
Methylene blue	70	Pentane	63
Methylene dichloride	62	Pentanol	66
Mice	72	Pepsin	2
Microbiological waste	99	Perspiration	8
Microorganisms	1, 76, 78	Pesticides	74
Microwaves	12	Petrol	63
Milk sugar	64	Petroleum ethers	63
Millon's reagent	5, 44	Petroleum spirit	63
<i>Milton</i>	9	Phenol red	70
Minibeasts	73	Phenolic disinfectants	9

Phenol-endo-2,6-dichlorophenol	5, 70	Propan-1-ol	66, 72
Phenolphthalein	70	Propan-2-ol	66
Phenyl 2-hydroxybenzoate	26	Propanal	68
Phenyl salicylate	26	Propane	63
Phenyl thiocarbamide	8	Propanone	61
Phenyl thiourea	8	Propionaldehyde	68
Philosopher's wool	49	<i>ProPlus</i>	8
Phones, mobile	99	Propyl alcohol	66
Phosphoric(V) acid	24	Protease	2
Phosphorus	82	Proteins	4, 5
Photographic emulsions	46	PTC	8
Photosensitisation	74	PTU	8
PIDCP	5, 70	Pupils, investigations on	3, 6, 7, 8
Pipettes	98	Pyronin	70
Plants	74, 75, 99	Quick lime	32
Plasmid transfer	78	Radiation	11, 12
Plaster of Paris	36	Radioactive materials	11, 91, 99
Plastics recycling symbols	99	Radio waves	12
Plugs	10	Rats	72, 75
Pollutants	52, 53, 99	Reaction time	6
Polyacrylamide gels	77	Recycling	99
Polymerase chain reaction	77	<i>Red Bull</i>	8
Ponds	75	Red kidney beans	74
Pond mud	76	Reducing sugars	4
Potassium (metal)	80	Refuse	99
Potassium aluminium sulfate(VI)	45	Reptiles	73
Potassium bicarbonate	33	Resazurin	70
Potassium bisulfate	34	Rhodizonic acid	70
Potassium bisulfite	35	Rhubarb	25, 74
Potassium bromide	34	Risk	96a
Potassium carbonate	33	Risk assessment	96a
Potassium chloride	34	RNA	78
Potassium chromate(VI)	47	Road kill	72
Potassium dichromate(VI)	47	Rocks	75
Potassium ethanedioate	34	Rosaniline	70
Potassium hydrogencarbonate	33	Roughage	64
Potassium hydrogensulfate(IV)	35	Rubbing alcohol	66
Potassium hydrogensulfate(VI)	34	Rust treatments	24
Potassium hydrogensulfite	35	Safety precautions	96a
Potassium hydroxide	31	Safety signs	91
Potassium iodide	34	Safety symbols	91
Potassium manganate(VII)	48	Safranin	70
Potassium metabisulfite	35	Sakaguchi test	5
Potassium nitrate(V)	34	Sal ammoniac	37
Potassium oxalate	34	Sal volatile	37
Potassium permanganate	48	Salicylic acid	26
Potassium peroxodisulfate(VI)	35	Saliva	3, 5, 64
Potassium persulfate	35	<i>Salmonella</i>	1
Potassium sulfate(IV)	35	Salmon sperm	77
Potassium sulfate(VI)	34	Salol	26, 94
Potassium sulfite	35	Scale	33
Potassium thiosulfate	35	Scales	73
Potato	74	Scalpels	71
Pouring	98	Scum	33
Precautionary statement	91	<i>sec</i> -butyl alcohol	66
Preservatives	72	Seaside	75
Pressure, blood	7	Seeds	74, 75
Primulas	74		
Procion dyes	70		
Prohibitory signs	91		

Seekers	71	Soot	58
Self-cloning	78	Sounds	6
Sensitisers	2, 47	Spatula	97
Sharps	6, 71	Sphygmomanometer	7
Sheep	72	Spirit blue	70
Sight	6	Spirometer	7
Signal word	91a	Splints	97
Silage	76	Stains	70
Silver (metal)	46	Starch	4, 64
Silver bromide	46	Steam engines	68
Silver chloride	46	Sterilisation	1, 7, 9, 76, 78
Silver halides	46	Stethoscope	7
Silver iodide	46	Stinkdamp	59
Silver nitrate(V)	46	Stomach acid	20, 64
Silver oxide	46	Students, investigations on	3, 6, 7, 8
Skin	6, 8, 73	Sucrose	64
Slaked lime	32	Sudan black	70
Smelling salts	37	Sudan I, II, III, IV dyes	70
Smoke alarms	11	Sugars	4, 64
Snails	73	Sulfur	82
Soda ash	33	Sulfur dioxide	35, 52, 82
Soda lime	31	Sulfuric(VI) acid	22
Sodium (metal)	80	Sunlight	12, 75
Sodium bicarbonate	33	Surgical spirit	8, 60
Sodium bisulfate	34	Sweat	3
Sodium bisulfite	35	Symbols	91a, 91b, 99
Sodium bromide	34	Syringe needles	71
Sodium carbonate	33		
Sodium chlorate(I)	9, 41	Tartaric acid	25
Sodium chloride	34	Taste testing	8, 64
Sodium chromate(VI)	47	Teat pipettes	98
Sodium dichromate(VI)	47	<i>tert</i> -butyl alcohol	66
Sodium ethanedioate	34	Test tubes	93, 94, 98
Sodium hydrogencarbonate	33	Test tube holders	93
Sodium hydrogensulfate(IV)	35	Tetrachloroethene	62
Sodium hydrogensulfate(VI)	34	Tetrachloromethane	62
Sodium hydrogensulfite	35	Thymol blue	70
Sodium hydroxide	31	Thymolphthalein	70
Sodium hypochlorite	9, 41	Ticks	75
Sodium iodide	34	Toilet cleaner	34
Sodium manganate(VII)	48	Tollen's reagent	46
Sodium metabisulfite	35	Toluene	63
Sodium nitrate(V)	34	Toluidine blue	70
Sodium oxalate	34	Tomato	74
Sodium perborate	39	Touch sensitivity	6
Sodium permanganate	48	Toxic	91a
Sodium peroxoborate-4-water	39	Toxicariasis	75
Sodium peroxodisulfate(VI)	35	Transferring liquids	98
Sodium persulfate	35	Transferring solids	97
Sodium sesquicarbonate	33	Triammonium aurine tricarboxylate	70
Sodium sulfate(IV)	35	Trichloroethane	62
Sodium sulfate(VI)	34	Trichloroethene	62
Sodium sulfide	59	Trichloroethylene	62
Sodium sulfite	34	Trichloromethane	62
Sodium tetraborate	39	Trulla	97
Sodium thiosulfate	35, 55	Trypsin	2
Solids	97	Tulips	74
Solochrome black	70		
Solvent black 3	70		
Solvent green 1	70	Ultraviolet radiation	12

<i>Umbellifers</i>	74	Wild animals	73, 75
Urease	2	Willow trees	26
Urine	3	Wiring	10
		Wooden splints	97
Vacuum cleaners	99		
Van de Graaff generator	10	X-rays	12
Vertebrates	73	Xylene	63
Vinegar	23	Xylene cyanol FF	70
<i>VirKon</i>	9	Xylenol orange	70
Viruses	9		
Visible radiation	12	Yeasts	76
Vitamin C	5	Yellow lines	47
Vocabulary	90		
Volasils	62	Zinc (metal)	49
Voltages	10	Zinc bromide	49
		Zinc carbonate	49
Washing soda	33	Zinc chloride	49
Waste (disposal)	99	Zinc oxide	49
Water bath	94	Zinc sulfate	49
Water fleas	73	Zinc sulfide	5
Wax	63, 94		
Weil's disease	75		