

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

Bromine water	55	Chromium(III) salts	47
Bromocresol green	70	Chromates(VI)	47
Bromophenol blue	70	Citric acid	25
Bromothymol blue	70	Citrus fruits	25
BSE	72	Clinistix	5
Buckminsterfullerene	58	Cobalt chloride	8
Bunsen burners	92, 93, 94	Cobalt thiocyanate	8
Butanal	68	Cochineal	70
Butane	63	Cola drinks	8, 24
Butan-1-ol	66	Cole's modification of Millon's test	5
Butan-2-ol	66	Colour blindness	6
Butchers	72	Completely denatured alcohol	60
Butyl alcohol	66	Congo red	70
Butyraldehyde	68	Control measures	96
		Copper	40
Cacti	74	Copper(II) carbonate	40
Caffeine	8	Copper(II) chloride	40
Calcium	81	Copper(II) nitrate(V)	40
Calcium chloride	36	Copper(I)/(II) oxide	40
Calcium bicarbonate	33	Copper pyrites	59
Calcium carbonate	33	Copper(II) sulfate(V)	40, 82
Calcium ethanedioate	25	Copper(II) sulfide	59
Calcium hydrogencarbonate	33	Corrosive	91a
Calcium hydroxide	32	Cotton blue	70
Calcium nitrate(V)	36	Cresol red	70
Calcium oxalate	25	Crystal violet	70
Calcium oxide	32	Cultures	1
Calcium sulfate(VI)	36	Cupric oxide	40
Calor gas	63	Cuprous oxide	40
Camping gas	63	Currents	10
Cane sugar	64	Cutting board	71
Carbohydrates	4, 64	Cyclohexane	63
Carbon	58	Cyclohexene	63
Carbon blocks	58		
Carbon dioxide	58, 76	Daffodils	74
Carbon disulfide	59	Dangerous for the environment	91a
Carbon monoxide	58	DCPIP	5, 70
Carbon tetrachloride	62	Decolourising charcoal	58
Carmine	70	Dental mirrors	6, 9
Castor oil plant	74	Deodorants	45
Catalase	2	De-scalers	23, 24
Cattle	72	Detergents, biological	2
Caustic soda	31	Dextrose	64
Cells (biological)	3	Diabetes	64
Cells (electrical)	10, 46, 48, 99	Diamond	58
Cellulase	2	Diastase	2
Cellulose	64	Diazine green	70
Chalk	33	Dichloromethane	62
Charcoal	58	Dichlorophenolindophenol	5, 70
Chattaway spatula	97	Dichromates(VI)	47
Cheek cells	3, 77	Diesel oil	63
Chemicals on skin	8	Dietary fibre	64
Chickens	72	2,3-dihydroxybutanedioic acid	25
Chimney sweeps	58	Dimethylbenzene	63
Chlorinated hydrocarbons	62	Dinitrogen oxide	53
Chlorine	9, 41, 54	Dinitrogen tetroxide	53
Chlorine water	54	Diphenylthiocarbazone	70
Chloroform	62	Dipotassium peroxomonosulfate	9
Chlorophyll, extraction from leaves	94	Direct dye 28	70
Chrome alum	47	Direct red 23	70
Chromium	47	Disclosing tablets	8

Disinfectant	1, 9, 41, 99	Fermenter	76
Disodium fluorescein	70	Ferric alum	38
Disodium tetraborate-10-water	39	Ferric ammonium sulfate	38
Disperse yellow 7	70	Ferric bromide	38
Dissection	71, 72, 99	Ferric carbonate	38
Dissection tray	71	Ferric chloride	38
Dithizone	70	Ferric oxide	38
DNA	77, 78	Ferric sulfate	38
'Do not discard' symbol	99	Ferrous bromide	38
<i>Domestos</i>	9	Ferrous carbonate	38
Drain cleaner	31	Ferrous chloride	38
Drinking in laboratories	8, 64	Ferrous oxide	38
Dropping bottles	98	Ferrous sulfate	38
Droppings	73	Fibre	64
Dry-cleaning solvent	62	Fieldwork	75
Dry ice	58	Finger dabs	1
Drying agent	36	Fire extinguisher	91b
Dyes	70	Fire-fighting signs	91b
		First aid signs	91b
Ear lobe attachment	6	Fish	72, 73
Eating in laboratories	8, 64	Fishmongers	72
Eclipses	12	Fixing agent	72
E. coli	1, 78	Flames	92
Effluent	99	Flammable	91a
Electrical and electronic equipment	99	Flammables	60, 61, 63, 65, 66, 68, 80, 81, 82, 94
Electricity	10	Fluorescein	70
Electric shock	10, 91b	Food	1, 4, 5, 25, 31, 40
Electrolysis	10, 40, 47, 49, 54	Food additives	25, 33, 34, 35, 36, 37, 46, 64
Electromagnetic radiation	12	Food tests	4, 5
Electrophoresis	77	Fool's gold	59
Emergency signs	91b	Formaldehyde	9, 67
Engine oil	63	Formalin	9, 67, 72
Environmental hazard	91a	Formic acid	23
Environmental samples	1	French beans	74
Enzymes	2	Fructose	64
Eosin (Y)	70	Fruit sugar	64
Epsom salts	36	Fungi	1, 9, 74
Eriochrome black (T)	70	Fur	33
Etching solution	38		
Ethanal	68	Galvanised iron	38, 49
Ethanal tetramer	68	Gamma (γ) radiation	11, 12, 74
Ethane	63	Gasoline	63
Ethanedioic acid	25	Gas under pressure	91a
Ethanoic acid	23	Genetics tests	6, 8
Ethanol	4, 9, 60, 72	Genetic modification	78
Ethidium bromide	70, 77	Genetically modified organisms	78
<i>Euphorbia</i>	74	Gentian violet	70
Evaporation tests	8	GHS	91a
Exercise	7	Giant hogweed	74
Explosive	91a	Glauber's salt	34
Extremely flammable	91a	Global warming	58
Eye colour	6	Globally harmonised system	91a
Eye protection (symbol)	91b	Gloves	97, 98
Eye wash station	91b	Glucose	64
Eyes	6, 72	GMOs	78
		Goats	72
Faeces	75	Gram's stain	70
Farm animals	73	Grapefruit	25
Fats	4	Graphite	58
Feathers	73	Greenhouse effect	58
Fehling's solution	4, 31, 40	Group I metals	80

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

Magnesium chloride	36	Model risk assessments	96
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 dioxide	48	Naphthalene	63
Manganese (metal)	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 chlorides	44	<i>o</i> -acetylsalicylic acid	26
Mercury compounds	5, 44	Obesity	64
Mercury (metal)	44	Oil (for oil baths)	63
Mercury nitrates(V)	44	Oil of wintergreen	26
Mercury oxides	44	Oranges	25
Metaldehyde	68	Orcein	70
Metaphosphoric acid	24	Orthophosphoric acid	24
Methanal	9, 67, 72	Oven cleaner	31
Methane	63, 76	Oxalic acid	25
Methanoic acid	23	Oxidising	91a
Methanol	66	Oxygen	51
Methylated spirit	60, 66	Ozone	51
Methylbenzene	63		
Methyl 2-hydroxybenzoate	26	Paint stripper	62
Methyl alcohol	66	Paraffin	63
Methyl blue	70	Paraffin oil	63
Methyl chloroform	62	Paraffin wax	63
Methyl green	70	Pathogens	1
Methyl orange	70	Patton & Reeder's indicator	70
Methyl red	70	PCR	77
Methyl salicylate	26	Peak-flow meter	7
Methyl violet	70	Pentane	63
Methylene blue	70	Pentanol	66
Methylene dichloride	62	Pepsin	2
Mice	72	Perspiration	8
Microbiological waste	99	Pesticides	74
Microorganisms	1, 76, 78	Petrol	63
Microwaves	12	Petroleum ethers	63
Milk sugar	64	Petroleum spirit	63
Millon's reagent	5, 44	Phenol red	70
<i>Milton</i>	9	Phenolic disinfectants	9
Minibeasts	73	Phenol- <i>indo</i> -2,6-dichlorophenol	5, 70
Minimata disease	44	Phenolphthalein	70
Mixing liquids	98	Phenyl 2-hydroxybenzoate	26
Mixing solids	97	Phenyl salicylate	26
Mobile phones	99	Phenyl thiocarbamide	8

Phenyl thiourea	8	Propyl alcohol	66
Philosopher's wool	49	Protease	2
Phones, mobile	99	Proteins	4, 5
Phosphoric(V) acid	24	PTC	8
Phosphorus	82	PTU	8
Photographic emulsions	46	Pupils, investigations on	3, 6, 7, 8
Photosensitisation	74	Pyronin	70
PIDCP	5, 70		
Pipettes	98	Quick lime	32
Plants	74, 75, 99		
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 aluminium sulfate(VI)	45	Refuse	99
Potassium bicarbonate	33	Reptiles	73
Potassium bisulfate	34	Resazurin	70
Potassium bisulfite	35	Rhodizonic acid	70
Potassium bromide	34	Rhubarb	25, 74
Potassium carbonate	33	Risk	96
Potassium chloride	34	Risk assessment	96
Potassium chromate(VI)	47	RNA	78
Potassium dichromate(VI)	47	Road kill	72
Potassium ethanedioate	34	Rocks	75
Potassium hydrogencarbonate	33	Rosaniline	70
Potassium hydrogensulfate(IV)	35	Roughage	64
Potassium hydrogensulfate(VI)	34	Rubbing alcohol	66
Potassium hydrogensulfite	35	Rust treatments	24
Potassium hydroxide	31		
Potassium iodide	34	Safety precautions	96
Potassium manganate(VII)	48	Safety signs	91
Potassium metabisulfite	35	Safety symbols	91
Potassium nitrate(V)	34	Safranin	70
Potassium oxalate	34	Sakaguchi test	5
Potassium permanganate	48	Sal ammoniac	37
Potassium peroxodisulfate(VI)	35	Sal volatile	37
Potassium persulfate	35	Salicylic acid	26
Potassium sulfate(IV)	35	Saliva	3, 5, 64
Potassium sulfate(VI)	34	<i>Salmonella</i>	1
Potassium sulfite	35	Salmon sperm	77
Potassium thiosulfate	35	Salol	26, 94
Potato	74	Scale	33
Pouring	98	Scales	73
Precautionary statement	91	Scalpels	71
Preservatives	72	Scum	33
Pressure, blood	7	sec-butyl alcohol	66
Primulas	74	Seaside	75
Procion dyes	70	Seeds	74, 75
Prohibitory signs	91	Seekers	71
Propan-1-ol	66, 72	Self-cloning	78
Propan-2-ol	66	Sensitisers	2, 47
Propanal	68	Sharps	6, 71
Propane	63	Sheep	72
Propanone	61	Sight	6
Propionaldehyde	68	Signal word	91a
<i>ProPlus</i>	8	Silage	76

Silver	46	Steam engines	68
Silver bromide	46	Sterilisation	1, 7, 9, 76, 78
Silver chloride	46	Stethoscope	7
Silver halides	46	Stinkdamp	59
Silver iodide	46	Stomach acid	20, 64
Silver nitrate(V)	46	Students, investigations on	3, 6, 7, 8
Silver oxide	46	Sucrose	64
Skin	6, 8, 73	Sudan black	70
Slaked lime	32	Sudan I, II, III, IV dyes	70
Smelling salts	37	Sugars	4, 64
Smoke alarms	11	Sulfur	82
Snails	73	Sulfur dioxide	35, 52, 82
Soda ash	33	Sulfuric(VI) acid	22
Soda lime	31	Sunlight	12, 75
Sodium	80	Surgical spirit	8, 60
Sodium bicarbonate	33	Sweat	3
Sodium bisulfate	34	Symbols	91a, 91b, 99
Sodium bisulfite	35	Syringe needles	71
Sodium bromide	34		
Sodium carbonate	33	Tartaric acid	25
Sodium chlorate(I)	9, 41	Taste testing	8, 64
Sodium chloride	34	Teat pipettes	98
Sodium chromate(VI)	47	<i>tert</i> -butyl alcohol	66
Sodium dichromate(VI)	47	Test tubes	93, 94, 98
Sodium ethanedioate	34	Test tube holders	93
Sodium hydrogencarbonate	33	Tetrachloroethene	62
Sodium hydrogensulfate(IV)	35	Tetrachloromethane	62
Sodium hydrogensulfate(VI)	34	Thymol blue	70
Sodium hydrogensulfite	35	Thymolphthalein	70
Sodium hydroxide	31	Ticks	75
Sodium hypochlorite	9, 41	Toilet cleaner	34
Sodium iodide	34	Tollen's reagent	46
Sodium manganate(VII)	48	Toluene	63
Sodium metabisulfite	35	Toluidine blue	70
Sodium nitrate(V)	34	Tomato	74
Sodium oxalate	34	Touch sensitivity	6
Sodium perborate	39	Toxic	91a
Sodium permanganate	48	Toxicariasis	75
Sodium peroxoborate-4-water	39	Transferring liquids	98
Sodium peroxodisulfate(VI)	35	Transferring solids	97
Sodium persulfate	35	Triammonium aurine tricarboxylate	70
Sodium sesquicarbonate	33	Trichloroethane	62
Sodium sulfate(IV)	35	Trichloroethene	62
Sodium sulfate(VI)	34	Trichloroethylene	62
Sodium sulfide	59	Trichloromethane	62
Sodium sulfite	34	Trulla	97
Sodium tetraborate	39	Trypsin	2
Sodium thiosulfate	35, 55	Tulips	74
Solids	97		
Solochrome black	70	Ultraviolet radiation	12
Solvent black 3	70	<i>Umbellifers</i>	74
Solvent green 1	70	Urease	2
Soot	58	Urine	3
Sounds	6		
Spatula	97	Vacuum cleaners	99
Sphygmomanometer	7	Van de Graaff generator	10
Spirit blue	70	Vertebrates	73
Spirometer	7	Vinegar	23
Splints	97	<i>VirKon</i>	9
Stains	70	Viruses	9
Starch	4, 64	Visible radiation	12

Vitamin C	5
Vocabulary	90
Volasils	62
Voltages	10
Washing soda	33
Waste (disposal)	99
Water bath	94
Water fleas	73
Wax	63, 94
Weil's disease	75
Wild animals	73, 75
Willow trees	26
Wiring	10
Wooden splints	97
X-rays	12
Xylene	63
Xylene cyanol FF	70
Xylenol orange	70
Yeasts	76
Yellow lines	47
Zinc	49
Zinc bromide	49
Zinc carbonate	49
Zinc chloride	49
Zinc oxide	49
Zinc sulfate	49
Zinc sulfide	59