

Form 7/1a – List of Substances

LOCATION: Argyle House School Laboratory				DATE OF LISTING: September 2024	
SUBSTANCE and SUPPLIER DETAILS Supplier is Philip Harris Education	IS IT IDENTIFIED AS HAZARDOUS? <small>(The MSDS MUST be checked against 'Approved Supply List') Note: some ingredients may be hazardous, but composition may not be.</small>			MAIN USE and FREQUENCY & TYPICAL QUANTITIES OF PRODUCT USED	COSHH REFERENCE NUMBER and ASSESSED RISK LEVEL
	COMPOSITION				
	CLASSIFIED AS HAZARDOUS?	CLASSIFIED DANGEROUS?	HAZARDS & SAFETY PHRASES		
Sodium Hydrogen Carbonate	Yes		Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hypernoea & convulsions> May irritate eyes, and respiratory system if inhaled as dust.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	1
Sodium acetate Anhydrous	Yes		Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hypernoea & convulsions. May irritate eyes, & respiratory system if inhaled as dust.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	2
Sodium dichromate	Yes		Harmful by ingestion, inhalation & skin contact. Corrosive to skin & eyes. Frequent exposure to dust can cause ulceration, liver and kidney disease & cancer. Inhalation of dust can cause nasal ulcers.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	3
Diphenylamine	Yes		Toxic by ingestion, inhalation & skin contact. Irritating to eyes. Danger of cumulative effects.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	4
Sodium Nitrite	Yes		Toxic by ingestion, large doses causing nausea, vomiting, cyanosis, collapse & coma. Repeated small doses cause a fall in blood pressure, rapid pulse, headache & visual disturbances. Irritating to eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	5
Agar	Yes		May be harmful if ingested in great quantity. Appropriate grades are widely used as food additives.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	6
Silica gel	Yes		Has a drying effect on skin. Cause temporary discomfort to eyes, possibly with physical damage. Chronic exposure to dust may cause silicosis.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	7
Sodium Oxalate	Yes		Harmful by ingestion & inhalation. Irritating to skin & eyes. If swallowed causes severe internal pain followed by collapse.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	8

Copper (II) Sulphate 5-hydrate	Yes		Harmful by ingestion & if inhaled as dust. Irritating to skin. Causes burns to eyes. Has an astringent action on mucous surfaces & is corrosive in strong solutions.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	9
Sulphur	Yes		May be irritating to eyes and if inhaled as dust.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	10
Sodium Sulphate Anhydrous	Yes		Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hypernoea & convulsions. May irritate eyes, and respiratory system if inhaled as dust.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	11
Sodium Sulphide	Yes		Toxic by ingestion, causing internal irritation and damage. Causes burns to skin and eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	12
Glass Wool	Yes		Fibres are irritating to skin, eyes and respiratory system. May cause physical damage to eyes and skin.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	13
Potassium Dichromate	Yes		Harmful by ingestion, inhalation & skin contact. Corrosive to skin & eyes. Frequent exposure to dust can cause ulceration, liver and kidney disease and cancer. Inhalation of dust can cause nasal ulcers.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	14
Potassium Nitrate	Yes		Harmful if ingested in quantity, causing gastric and renal irritation. Fate dose 15-30g. Irritating to eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	15
Potassium Oxalate	Yes		Harmful by ingestion & inhalation. Irritating to skin and eyes. If swallowed causes severe internal pain followed by collapse.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	16
Oxalic acid	Yes		Harmful by ingestion and if inhaled as dust. Irritating to skin and eyes. May cause burns and dermatitis if contact is prolonged. If ingested causes severe internal pain followed by collapse.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	17

Phenol	Yes		Toxic by ingestion, inhalation & skin contact. Causes burns. Inhalation of vapour over a prolonged period may cause digestive disturbances, nervous disorders, skin eruptions and damage to kidneys and liver. Dermatitis may result from prolonged contact with weak solutions.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	18
Methanol	Yes		Toxic by ingestion. Damaging if splashed in eyes. High concentrations of vapour may cause dizziness, stupor, cramps and digestive disturbances. Lower levels may cause headache and nausea. Chronic effects-damages the central nervous system, particularly the optic nerve, and internal organs.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	19
Potassium Bromide	Yes		Harmful if ingested in quantity. May irritate eyes. Large doses can cause central nervous system depression. Prolonged intake may cause metal deterioration. High concentrations have an irritant action on the stomach.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	20
Acetic Acid	Yes		Vesicant. Causes severe burns. Causes internal irritation and damage if taken by mouth. Irritating vapour.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	21
Ethanol	Yes		Intoxicating if inhaled. Irritating to eyes. If ingested in undiluted form has a severe drying effect on mucous membranes of mouth and throat. Can be damaging if splashed in eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	22
Hydrogen Peroxide Solution 30%	Yes		Causes severe burns to skin & eyes. Extremely irritating to respiratory system. If ingested, sudden evolution of oxygen may cause injury by acute distension of the stomach, and may cause nausea, vomiting and internal bleeding.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	23
Ammonia solution 35%	Yes		Causes severe burns. Vapour extremely irritating to eyes & respiratory system. If swallowed causes severe internal damage.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	24
Sodium Metal	Yes		Causes severe thermal and caustic burns in contact with moist skin. Sodium Hydroxide formed by reaction with water may also cause burns.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	25

Potassium Metal	Yes		Causes severe thermal and caustic burns in contact with moist skin. Potassium Hydroxide formed by reaction with water may also cause burns.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	26
Potassium Hydroxide	Yes		The solid and solutions cause severe irritation and burns to skin & eyes. If ingested cause severe internal irritation and damage. Extremely irritating to respiratory system if inhaled as dust.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	27
Potassium Chromate	Yes		Toxic by ingestion, inhalation & skin contact. Corrosive to skin and eyes. Frequent exposure to dust can cause ulceration, liver and kidney disease and cancer. Inhalation of dust can cause nasal ulcers.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	28
Potassium Hexacyanoferrate (11)	Yes		Oral toxicity is low as cyanide is bound. May be harmful if ingested in quantity. Irritating to eyes and skin.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	29
Potassium iodide	Yes		Continued ingestion may result in mental depression, nervousness, insomnia & sexual impotence. Symptoms may occur a few hours after ingestion of a small amount, or only after repeated large amounts. May irritate eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	30
Potassium Bromate	Yes		Toxic by ingestion. Irritating to skin, eyes & respiratory system.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	31
Cobalt (11) Chloride 6-Hydrate	Yes		Harmful by ingestion, causing anorexia, skin rashes, nausea, vomiting, diarrhoea & renal injury. May be irritating to eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	32
Biuret reagent (working) solution	Yes		Contains 1% sodium hydroxide. Irritating to eyes and skin. Harmful if ingested in quantity. May cause burns if contact is prolonged.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	33
Million's reagent	Yes		Cause severe burns to eyes and skin. If ingested causes severe internal irritation and damage. Danger of cumulative effects due to mercury content.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	34
Potassium Permanganate	Yes		Harmful by ingestion and if inhaled as dust, causing nausea, vomiting & kidney damage. Extremely irritating to eyes & irritating to skin. Solutions have a caustic effect.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	35

Phenolphthalein 1% indicator solution	Yes		May irritate eyes & skin. May be harmful if ingested in quantity. Symptoms similar to alcoholic poisoning. Phenolphthalein has a strong purgative effect.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	36
Zinc foil	Yes		Harmful as fume. May cause physical damage to eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	37
Universal Indicator solution	Yes		Stains and may irritate eyes and skin. May be harmful if ingested in quantity. Symptoms similar to alcoholic poisoning.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	38
Litmus indicator papers	Yes		May be harmful if ingested in quantity. May cause physical damage in contact with eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	39
Sulphuric Acid	Yes		Causes severe burns to eyes and skin. If ingested causes severe internal irritation and damage. Dilute acid irritates the eyes and skin and may cause burns and dermatitis.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	40
Nitric Acid	Yes		Causes severe burns to eyes & skin. If ingested causes severe internal irritation and damage. Irritating harmful vapour.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	41
Aluminium powder	Yes		Repeated exposure to dust can cause bronchial asthma. Repeated skin contact may result in dermatitis. Ingestion causes flatulence. Contact with eyes may cause corneal damage.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	42
Barium Chloride	Yes		If swallowed causes nausea, vomiting, stomach pains & diarrhoea. Harmful by inhalation as dust. Irritating to eyes. Harmful by skin contact.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	43
Calcium granules	Yes		Irritating and damaging to eyes. Irritating to skin. If ingested causes internal irritation and flatulence.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	44
Calcium Carbonate	Yes		Irritating if inhaled as dust. May irritate eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	45

Calcium chloride fused	Yes		Irritating to skin, eyes and respiratory system. If ingested causes gastric irritation. Ingestion of large amounts can lead to hypercalcaemia, dehydration and renal damage.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	46
Copper (I) chloride	Yes		Toxic by ingestion. Irritating to skin, eyes and respiratory system.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	47
D(-) Fructose	Yes		May be harmful if ingested in great quantity, causing abdominal pain and diarrhoea. May irritate eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	48
Copper (II) Oxide	Yes		Harmful by ingestion and if inhaled as dust. May irritate skin and eyes. Inhalation of large amounts of dust may cause 'metallic fever'	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	49
Ascorbic Acid	Yes		Ingestion of large quantities may cause nausea, vomiting and diarrhoea. Irritating to eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	50
Citric acid monohydrate	Yes		Irritating to eyes and if inhaled as dust. Slight allergen. May be harmful if ingested in quantity. Occurs naturally in the juice of citrus fruits.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	51
Glycerol	Yes		May be harmful ingested in very large quantities, causing headache, nausea and vomiting. May irritate eyes. Appropriate grades are used as food additives.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	52
D-Glucose anhydrous	Yes		May cause temporary discomfort in contact with eyes. May be harmful if ingested in very large quantities.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	53
Iodine	Yes		Harmful by ingestion & inhalation. Irritating to skin and eyes & may cause burns. Has a corrosive effect on the gastro-intestinal tract, causing vomiting, abdominal pains and diarrhoea. Hypersensitivity may cause conjunctivitis, bronchitis, skin rashes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	54
Iron (II) Chloride dried (Ferrous chloride)	Yes		Irritating to skin & eyes. Ingestion of large quantities can cause gastric irritation, and possibly delayed metabolic acidosis, coma and eventual liver damage.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	55

Iron (III) chloride anhydrous	Yes		Causes severe burns to eyes. Causes thermal and acid burns to skin. Inhalation of fine crystals causes irritation of mucous membranes. If ingested causes severe local burns, internal irritation and damage.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	56
Lead metal	Yes		Harmful if taken internally for prolonged periods. Symptoms include digestive disturbances, pallor, anaemia, blue line on gums. Inhalation of fume can cause nausea, headaches, etc.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	57
Magnesium sulphate 7-hydrate	Yes		May be harmful if ingested in quantity, causing diarrhoea, thirst, hypotension and respiratory depression. May irritate eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	58
Nickel (II) bromide	Yes		Harmful by ingestion, inhalation and skin contact. If ingested causes nausea, vomiting and diarrhoea. Irritating to eyes. Repeated inhalation of airborne dusts of some impure nickel compounds may cause carcinogenic effects.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	59
Naphthalene	Yes		Harmful by ingestion, inhalation and skin contact. Irritating to eyes and may irritate skin.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	60
Lithium carbonate	Yes		Harmful by ingestion and if inhaled as dust. If ingested can affect the ionic balance of the blood. Effects can include anorexia, diarrhoea, vomiting, dizziness and central nervous system disturbances. Kidney damage may result if sodium intake is limited.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	61
Manganese (IV) oxide (Manganese dioxide)	Yes		Harmful by ingestion and if inhaled as dust. Irritating to eyes. May irritate skin.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	62
Sodium chloride	Yes		Ingestion of large amounts may cause diarrhoea, nausea, vomiting, hypernoea and convulsions. May irritate eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	63
Silver nitrate	Yes		Corrosive to skin and eyes. Causes blackening of skin. Harmful by ingestion, causing severe irritation and damage. Prolonged exposure may result in argyria, a bluish discolouration of the skin.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	64

Sodium sulphite anhydrous	Yes		If ingested in quantity can cause gastric irritation, colic, diarrhoea, central nervous system depression and death, due to liberation of sulphur dioxide. Irritating to skin, eyes and respiratory system. Used in controlled quantities as a food preservative and antioxidant.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	65
Sodium carbonate anhydrous	Yes		Irritating to eyes. Dust is sternutatory. Ingestion of large amounts may cause diarrhoea, nausea, hypernoea, vomiting and convulsions.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	66
Sodium thiosulphate 5-hydrate	Yes		Considered to be of very low toxicity. Intravenous doses of 12.5-25g are administered in the treatment of cyanide poisoning. May irritate eyes.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	67
Soda lime	Yes		Causes severe burns to eyes and skin. Irritating if inhaled as dust. Causes severe internal irritation and damage if ingested.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	68
Starch	Yes		Irritating to eyes and may irritate if inhaled as dust.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	69
Sodium hydroxide	Yes		Corrosive to body tissue, causing burns and deep ulceration. Irritant and harmful as dust. If ingested causes severe internal irritation and damage.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	70
Sand	Yes		Can cause temporary discomfort or physical damage to eyes. May be irritating if inhaled as dust.	School Laboratory Used in small quantities. Either used weekly or monthly depending on topic.	71