

SGDSB - CHEMICALS APPROPRIATE FOR USE IN THE SCIENCE CURRICULUM

It is not the intent of this document to prevent an activity that will significantly enhance the learning of students. The list of chemicals that are appropriate for use in the science curriculum provided that proper personal protective equipment and facilities are available. This list is evergreen and will be adjusted as needed. Personal protective equipment is advised assuming the most hazardous conditions. Refer to the MSDS of the substance or chemical for more detail on the personal protective equipment required and handling instructions.

If Personal Protective Equipment is recommended it must be provided and worn when using any material or for any process. This is a requirement of the Occupational Health & Safety Act (OHSA).

<i>Name</i>	<i>WHMIS Class</i>	<i>CAS #</i>	<i>Storage Area</i>	<i>PPE</i>	<i>Comments</i>
A					
Acetamide	B2, E	60-35-5	Flammable	Goggles, Apron, Gloves	Static sensitive
Acetic acid	B2, E	64-19-7	Corrosive	Goggles, Apron, Gloves	
Acetic anhydride	B2, E	108-24-7	Corrosives	Goggles, Apron, Gloves	
Acetone	B2, D2	67-64-1	Flammable	Goggles, Apron, Gloves	
Acetylsalicylic Acid	D2	107-13-1	General	Goggles, Apron, Gloves	
Adrenaline	WHMIS EXEMPT	51-43-4	General	Goggles, Apron, Gloves	
Agar	WHMIS EXEMPT	9002-18-0	General	Goggles, Apron	
Alizarin yellow	WHMIS EXEMPT	1783-34-9	General	Goggles, Apron, Gloves	
Alum	D2	10043-67-1	General	Goggles, Apron	
Aluminum chloride	D2, E, F	7784-13-6	Corrosives	Goggles, Apron	
Aluminum hydroxide	WHMIS EXEMPT	21645-51-2	General	Goggles, Apron	
Aluminum nitrate	C, D2	7784-27-2	General	Goggles, Apron, Gloves	
Aluminum oxide	WHMIS EXEMPT	1344-28-1	General	Goggles, Apron	
Aluminum sulfate	D2	7784-31-8	General	Goggles, Apron	
Amylase	WHMIS EXEMPT	9000-91-3	General	Goggles, Apron, Gloves	
Ammonia Soln (<35%)	B2, E	1336-21-6	Flammable	Goggles or Face shield, Apron, Gloves	
Ammonium acetate	WHMIS EXEMPT	631-61-8	General	Goggles, Apron	
Ammonium bicarbonate	WHMIS EXEMPT	1066-33-7	General	Goggles, Apron	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Ammonium carbonate	WHMIS EXEMPT	506-87-6	General	Goggles, Apron	
Ammonium chloride	WHMIS EXEMPT	12125-02-9	General	Goggles, Apron	
Ammonium Hydroxide (<35%)	E	1336-21-6	Corrosives	Goggles or Face shield Apron, Gloves	
Ammonium iodide	D2	12027-06-4	General	Goggles, Apron	
Ammonium molybdate	WHMIS EXEMPT	1235-67-7	General	Goggles, Apron	
Ammonium nitrate	C	6484-52-2	Separate	Goggles, Apron	
Ammonium oxalate	D1,E	6009-70-7	Corrosives	Goggles, Apron, Gloves	
Ammonium persulfate	C	7727-54-0	General	Goggles, Apron	
Ammonium phosphate	WHMIS EXEMPT	7783-28-0	General	Goggles, Apron	
Ammonium sulfate	WHMIS EXEMPT	7783-20-2	General	Goggles, Apron	
Ammonium thiocyanate	WHMIS EXEMPT	1762-95-4	General	Goggles, Apron	
Ammonium Tungsten Oxide	WHMIS EXEMPT	28300-74-5	General	Goggles, Gloves	
Ammonium Vanadate					
Antimony Potassium Tartrate	D2	11071-15-1	General	Goggles, Apron, Gloves	
Amyl acetate	WHMIS EXEMPT	628-63-7	Org.	Goggles, Apron, Gloves	
Ascorbic acid	WHMIS EXEMPT	50-81-7	Corrosives	Goggles, Apron	

B

Barium acetate	WHMIS EXEMPT	543-80-6	General	Goggles, Apron, Gloves	
Barium carbonate	D1	513-77-9	General	Goggles, Apron, Gloves	Acute toxicity
Barium chloride	D1	10361-37-2	General	Goggles, Apron, Gloves	
Barium hydroxide	D2	12230-71-6	General	Goggles, Apron, Gloves	
Barium nitrate	C,D1,D2	10022-31-8	General	Goggles, Apron, Gloves	
Barium Oxide, Anhydrous	D1, D2	1304-28-5	General	Goggles, Apron, Gloves	
Barium sulfate	WHMIS EXEMPT	7727-43-7	General	Goggles, Apron, Gloves	
Benedict's solution	WHMIS EXEMPT		General	Goggles, Apron, Gloves	
Benzoic acid	D2	65-85-0	General	Goggles, Apron	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Beta Amylase Barley	WHMIS EXEMPT	9000-91-3	General	Goggles, Apron, Gloves,	
Bismuth Nitrate	D2, C	10361-44-1	General	Goggles, Apron, Gloves,	
Biuret solution	E	108-19-0	Corrosives	Goggles, Apron, Gloves,	
Boric acid	D2	10043-35-3	General	Goggles, Apron, Gloves,	
Bromocresol green	WHMIS EXEMPT	76-60-8	General	Goggles, Apron	
Bromophenol blue	WHMIS EXEMPT	115-39-9	General	Goggles, Apron, Gloves	
Bromothymol blue	WHMIS EXEMPT	76-59-5	General	Goggles, Apron	
Buffer Solution pH 4	D2	Mixture	General	Goggles, Apron, Gloves	
Buffer Solution pH 7	D2	Mixture	General	Goggles, Apron, Gloves	
Buffer Solution pH 10	D2	Mixture	General	Goggles, Apron, Gloves	
Butanol	B2, D2	71-36-3	Flammable	Goggles, Apron, Gloves	

C

Cadmium Acetate	D1, D2	543-90-8	General	Goggles, Apron, Gloves	Avoid dust, poisonous
Cadmium Sulfate	D1, D2	10124-36-4	General	Goggles, Apron, Gloves	Avoid dust, poisonous
Caffeine	D2	58-08-2	General	Goggles, Apron	
Calcium acetate	WHMIS EXEMPT	5743-26-0	General	Goggles, Apron	
Calcium carbide	B4, D2	75-20-7	Flammable solids	Goggles, Apron, Gloves	
Calcium carbonate	WHMIS EXEMPT	471-34-1	General	Goggles, Apron, Gloves	
Calcium chloride	B4, C, D2, E	10043-52-4	General	Goggles, Apron	Store separately
Calcium fluoride	E	7789-75-5	Corrosives	Goggles, Apron x	Do not react, sample only
Calcium hydroxide	E	1305-62-0	Corrosives	Goggles, Apron	
Calcium hypochlorite	C,E	7778-54-3	Corrosives	Goggles, Apron, Gloves	
Calcium Metal	B4, E, F	7440-70-2	Flammable solids	Goggles, Apron, Gloves	
Calcium nitrate	C, F	10124-37-5	General	Goggles, Apron	Shock sensitive
Calcium oxide	E	1305-78-8	Corrosives	Goggles, Apron	
Calcium phosphate	WHMIS EXEMPT	7758-23-8	General	Goggles, Apron	
Calcium sulfate	WHMIS EXEMPT	7778-18-9	General	Goggles, Apron	
Carbon, activated powder	D2	7440-44-0	General	Goggles, Apron	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Carbon dioxide	A	124-38-9	General	Goggles, Apron, Gloves	
Casein	WHMIS EXEMPT	9000-71-9	General	Goggles, Apron	
Catalase	D2	5-2-9001	General	Goggles, Apron, Gloves	
Cholesterol	WHMIS EXEMPT	57-88-5	General	Goggles, Apron, Gloves	
Chromium Potassium Sulfate	D2	101041-00-1	General	Goggles, Apron, Gloves	Known Carcinogen
Citric Acid	E,F	77-92-9	Corrosives	Goggles or Face shield Apron, Gloves	
Cobalt chloride	D1,D2	7791-13-1	General	Goggles, Apron, Gloves	
Cobalt nitrate	C	10026-22-9	General	Goggles, Apron	
Colbalt Oxide	D1,D2	1308-06-1	General	Goggles or Face shield Apron, Gloves	Toxic fumes on decomp
Congo red	WHMIS EXEMPT	573-58-0	General	Goggles, Apron, Gloves	
Copper acetate	WHMIS EXEMPT	06046-93-1	General	Goggles, Apron, Gloves	Not required in program
Copper bromide	E	7789-45-9	Corrosives	Goggles, Apron, Gloves	
Copper chloride	E	13933-17-0	Corrosives	Goggles, Apron, Gloves	Not required in program
Copper metal	WHMIS EXEMPT	7440-50-8	General	Goggles, Apron	
Copper nitrate	WHMIS EXEMPT	3251-23-8	General	Goggles, Apron	Not required in program
Copper oxide	WHMIS EXEMPT	1317-38-0	General	Goggles, Apron	Not required in program
Copper sulfate	WHMIS EXEMPT	7758-99-8	General	Goggles, Apron, Gloves	
Crystal Violet Solution	B2, D2	Mixture	Flammables	Goggles, Apron, Gloves	
Cyclohexene	B2	110-83-8	Flammables	Goggles or Face shield Apron, Gloves	Highly Flammable

D

Dextrose, Anhydrous	WHMIS EXEMPT	50-99-1	General	Goggles, Gloves	
Dextrose, Monohydrate	WHMIS EXEMPT	10-1-5996	General	Goggles, Gloves	
Diatase of Malt	WHMIS EXEMPT	9000-92-4	General	Goggles, Gloves	
Diethyl Ether	B2	60-29-7	Flammables	Goggles, Apron, Gloves, Respirator	Highly flammable Limit volumes to 1 Litre or less

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Dimethylglyoxine	WHMIS EXEMPT	95-45-4	General	Goggles, Gloves	Not required in program
Diphenylthiocarbazon	D2	60-10-6	General	Goggles, Apron, Gloves	
Distilled White Vinegar	WHMIS EXEMPT	64-19-7	General	Goggles, Gloves	
DL- Camphor	B4, D2	76-22-2	Flammable solids	Goggles, Apron, Gloves	Not required in program
Dolomitic Hydrated Lime	D2, E	Mixture	Corrosives	Goggles, Apron, Gloves	

E

EDTA	WHMIS EXEMPT	2001-94-7	General	Goggles, Gloves	
Ethyl acetate	D2	141-78-6	General	Goggles, Apron, Gloves	Highly flammable
Ethyl alcohol	B2, D2	64-17-5	Flammables	Goggles or Face shield Apron, Gloves	Highly flammable
Ethylene glycol	D2A	107-21-1	General	Goggles, Apron	

F

Ferric Ammonium Citrate	WHMIS EXEMPT	1185-57-5	General	Goggles, Apron	
Ferric Ammonium Sulfate	D1	10138-04-2	General	Goggles, Apron, Gloves, Respirator	
Ferric chloride	E,F	7705-08-0	Corrosives	Goggles or Face shield Apron, Gloves	
Ferric sulfate	WHMIS EXEMPT	10028-22-5	General	Goggles, Apron	
Ferrous chloride	E	13478-10-9	Corrosives	Goggles, Apron	
Ferrous Ammonium Sulfate	D1	10045-89-3	General	Goggles, Apron, Gloves, Respirator	
Ferrous sulfate	WHMIS EXEMPT	7782-63-0	Inorg. 2	Goggles, Apron	
Fluorescein	WHMIS EXEMPT	2321-07-5	General	Goggles, Apron	
Formaldehyde	B2, D1, D2	50-00-0	Flammables	Gloves, respirator, protective clothing	Known Carcinogen
Formic acid	B3, E	64-18-6	Corrosives	Goggles or Face shield Apron, Gloves	Very irritating, explosive
Fructose Solution	WHMIS EXEMPT	57-48-7	General	Goggles, Apron	

G

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Gibberellic Acid	WHMIS EXEMPT	Mixture	General	Goggles, Apron, Gloves	
Glucose	WHMIS EXEMPT	50-99-7	General	Goggles, Apron	
Glycerine	WHMIS EXEMPT	56-40-6	General	Goggles, Apron, Gloves	
Graphite	WHMIS EXEMPT	7782-42-5	General	Goggles, Apron	
Gum Arabic Solution	WHMIS EXEMPT	9000-01-5	General	Goggles, Apron, Gloves	
H					
Helium	A	7440-59-7	Bot.gas	Goggles, Apron, Gloves	
Heptane	B2,	142-82-5	Flammables	Goggles, Apron, Gloves	
Hexane	B2,	110-54-3	Flammables	Goggles, Apron, Gloves	
Hydrochloric acid	D1,E	7647-01-0	Corrosives	Goggles or Face shield Apron, Gloves	
Hydrogen	A, B1	1333-74-0	Bot.gas	Goggles. Gloves	
Hydrogen peroxide <40%	C,E,F	7722-84-1	Corrosives	Goggles, Apron	Not required in program
I					
Indigo carmine	WHMIS EXEMPT	860-22-0	General	Goggles, Apron	
Iodine	D1,E		Corrosives	Goggles or Face shield Apron, Gloves	Ensure tight seal on iodine bottles
Iron metal	WHMIS EXEMPT		General	Goggles or Face shield Apron, Gloves	
Isopropyl alcohol	B2, D2	67-63-0	Flammables	Goggles, Apron, Gloves	
J					
Janus green B	WHMIS EXEMPT	2869-83-2	General	Goggles. Gloves	
K					
Kaolin	WHMIS EXEMPT	1332-58-7	General	Goggles, Apron	
Kerosene	B2, D2	8008-20-6	Flammables	Goggles, Apron, Gloves	
L					
Lactose	WHMIS EXEMPT	63-42-3	General	Goggles, Gloves	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Lactic acid	E	50-21-5	Corrosives	Goggles or Face shield Apron, Gloves	
Lead acetate	D2	6080-56-4	General	Goggles, Apron, Gloves	Teratogen
Lead chloride	D1	7758-95-4	General	Goggles, Apron, Gloves	Cumulative poison
Lead metal	D2	7439-92-1	General	Gloves, Respirator, Goggles	Designated substance
Lead nitrate	D2	10099-74-8	General	Goggles, Apron, Gloves	
Lead oxide Red	D2	1314-41-6	General	Goggles, Apron, Gloves	Designated substance
Lead sulfide	D2	1314-87-0	General	Gloves, respirator, protective clothing	Possible carcinogen
Lime water	WHMIS EXEMPT	1305-62-0	General	Goggles, Apron	
Linseed oil	WHMIS EXEMPT	8001-26-1	General	Goggles, Gloves	
Lithium chloride	D2	7447-41-8	General	Goggles, Apron	
Lythium hydroxide soln	E	1310-66-3	Corrosives	Goggles, Apron, Gloves	
Lithium metal	B4, E	7439-93-2	Flammable solids	Goggles or Face shield Apron, Gloves	
Lithium nitrate	C	7790-69-4	General	Goggles, Apron	
Litmus	WHMIS EXEMPT	1393-92-6	General	Goggles, Gloves	
Lumiol	D2	521-31-3	General	Goggles, Gloves	
Lycopodium Powder	WHMIS EXEMPT	8023-70-9	General	Goggles, Gloves	Possible allergen
Lye, soln	E	1310-73-2	Corrosives	Goggles, Apron, Gloves	

M

Magnesium acetate	WHMIS EXEMPT	142-72-3	General	Goggles, Apron	Not required in program
Magnesium carbonate	WHMIS EXEMPT	23389-33-5	General	Goggles, Apron	Not required in program
Magnesium chloride	WHMIS EXEMPT	7791-18-6	General	Goggles, Apron	Not required in program
Magnesium powder	B4	7439-95-4	Flammable solids	Goggles, Apron	
Magnesium nitrate	E	10377-60-3	Corrosives	Goggles, Apron, Gloves	Not required in program
Magnesium oxide	WHMIS EXEMPT	1309-48-4	General	Goggles, Apron	Not required in program
Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Magnesium sulfate	WHMIS EXEMPT	7487-88-9	General	Goggles, Apron	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Magnesium metal	B4	7439-95-4	Flammable solids	Goggles, Apron, Gloves	
Maleic acid	E	110-16-7	Corrosives	Goggles, Apron, Gloves	
Maltose	WHMIS EXEMPT	69-79-4	General	Goggles, Gloves	
Manganese dioxide	C,D2	1313-13-9	General	Goggles, Apron	
Manganese chloride	WHMIS EXEMPT	13446-34-9	General	Goggles, Apron	Toxic fumes when heated
Manganese sulfate	D2	10034-96-5	General	Goggles, Apron	
Methyl alcohol	B1,D1,D2	67-56-1	Flammables	Goggles or Face shield Apron, Gloves	
Methylcelulose 1.5% solution	WHMIS EXEMPT	mixture	General		
Methyl Ethyl Ketone	B1	78-93-3	Flammables	Gloves, Goggles, respirator, protective clothing	Highly flammable
Methyl orange	WHMIS EXEMPT	547-58-0	General	Goggles, Apron	
Methyl red	WHMIS EXEMPT	493-52-7	General	Goggles, Apron	
Methyl Violet	D2	8004-87-3	General	Goggles, Gloves	
Methylene blue	WHMIS EXEMPT	7220-79-3	General	Goggles, Apron	
Mineral oil	B3	8012-59-1	Flammables	Goggles, Apron, Gloves	Chronic Skin carcinogen
m-Xylene	B1, D2	108-38-3	Flammables	Goggles, Apron, Gloves	

N

Napthalene,crude/refined	B2, D2	91-20-2	Flammables	Goggles, Apron	Adverse reproductive affects
N- butyric acid	E	107-92-6	Corrosives	Gloves, Goggles, respirator, protective clothing	
Nickel chloride	D2	7791-20-0	General	Goggles, Apron, Gloves	Suspected carcinogen
Nickel metal	D2	7440-02-0	General	Gloves, Goggles, respirator, protective clothing	
Nickel nitrate	D2	13478-00-7	General	Goggles, Apron, Gloves	Suspected carcinogen
Nickel sulfate	D2	10101-97-0	General	Goggles, Apron, Gloves	Suspected carcinogen
Ninhydrin	WHMIS EXEMPT	485-47-2	General	Goggles, Apron, Gloves	use in fume hood only
Nitric acid <70%	C,E	7697-37-2	Corrosives	Goggles or Face shield, Apron, Gloves	Store in special cabinet insert
Nitrogen Gas	A	7727-37-9	Bot.gas	Goggles, Gloves	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
O					
Octyl Bonded Silica Gel	WHMIS EXEMPT	126849-95-4	General	Goggles, Gloves	
Oleic acid	D1,E	112-80-1	Corrosives	Goggles, Gloves	Not required in program
Oxalic acid	D1,E	6153-56-6	Corrosives	Goggles, Apron, Gloves	Not required in program
Oxygen	A	7782-44-7	Bot.gas	Goggles, Gloves	
P					
Paraffin	WHMIS EXEMPT	8002-74-2	General	Goggles, Apron	
Pentane	B1	109-66-0	Flammables	Goggles, Apron, Gloves	Highly flammable
Palmitic Acid	WHMIS EXEMPT	57-10-3	General	Goggles, Gloves	
P-Dimethylaminobenzaldehyde	WHMIS EXEMPT	100-10-7	General	Goggles, Apron, Gloves	
Pepsin	WHMIS EXEMPT	9001-75-6	General	Goggles, Apron	
Petroleum ether		8032-32-4	Org. 4	Goggles, Apron, Gloves	
Phenol	D1, D2, E	108-95-2	Corrosives	Goggles, Apron, Gloves	Teratogen, mutagen
Phenolphthalein	WHMIS EXEMPT	77-09-8	General	Goggles, Apron	
Phosphoric acid	E	7664-38-2	Corrosives	Goggles or Face shield Apron, Gloves	
Phthalic anhydride	D2	85-44-9	General	Goggles, Apron, Gloves	
Polyethylene Glycol	WHMIS EXEMPT	25322-68-3	General	Goggles, gloves	
Polyvinyl Alcohol	B4	9002-89-5	Flammable solids	Goggles, gloves	
Potassium bicarbonate	WHMIS EXEMPT	298-14-6	General	Goggles, Apron	
Potassium bromate	C, D1, D2	7758-01-2	General	Goggles, Apron, Respirator, fume hood	
Potassium bromide	D2	7758-02-3	General	Goggles, Apron	Toxic, not required
Potassium carbonate	E	584-08-7	Corrosives	Goggles, Apron	
Potassium chlorate	C	3811-04-9	General	Goggles, Apron, Gloves	
Potassium chloride	WHMIS EXEMPT	7447-40-7	General	Goggles, Apron	
Potassium chromate	C, D2	7789-00-6	General	Goggles, Apron, Gloves	
Potassium dichromate	B6, D1, E	7778-50-9	Corrosives	Goggles, Apron, Gloves	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Potassium Hydrogen Phthalate	WHMIS EXEMPT	877-24-7	General	Goggles, Apron, Gloves	
Potassium Hydrogen Sulfate	E	7646-93-7	Corrosives	Goggles, Apron, Gloves	
Potassium hydroxide	D1, E	1310-58-3	Corrosives	Goggles, Apron, Gloves	
Potassium iodate	C	7758-05-6	General		
Potassium iodide	D2	7681-11-0	General	Goggles, Apron	
Potassium metal	N/A	7440-09-7	Flammable solids	Goggles, Apron, Gloves	Limit quantities to 25 grams
Potassium nitrate	C	7757-79-1	General	Goggles, Apron	
Potassium oxalate	D1	6487-48-5	General	Goggles, Apron, Gloves	Not required in program
Potassium permanganate	C, D2	7722-64-7	General	Goggles, Apron, Gloves	
Potassium phosphate	WHMIS EXEMPT	7758-11-4	General	Goggles, Apron	
Potassium Sodium Tartrate	WHMIS EXEMPT	304-59-6	General	Goggles, Apron	
Propane	A, B1	74-98-6	Bot.gas	Goggles, Gloves	
Propionic acid	B3, D1, E	79-09-4	Corrosives	Goggles or Face shield Apron, Gloves	
Propyl alcohol	E	71-23-8	Corrosives	Goggles, Apron, Gloves	
R					
Rosolic Acid	WHMIS EXEMPT	603-45-2	General	Goggles, Apron, Gloves	
S					
Salicylic acid	D2	50-78-2	General	Goggles, Apron	
Sec-Butyl Alcohol	B2	78-92-2	Flammables	Goggles, Apron, Gloves	
Semicarbazide Hydrochloride	WHMIS EXEMPT	563-41-7	General	Goggles, Apron, Gloves	
Silver metal	N/A	7440-22-4	General	Gloves, Respirator, Goggles	
Silver nitrate	C,D1, E	7761-88-8	Corrosives	Goggles, Apron, Gloves	
Sodium acetate buffer	WHMIS EXEMPT	mixture	General	Goggles, Apron, Gloves	
Sodium acetate trihydrate	WHMIS EXEMPT	6131-90-4	General	Goggles, Apron, Gloves	
Sodium acetate	WHMIS EXEMPT	127-09-3	General	Goggles, Apron	
Sodium Arsenate Heptahydrate	D1	7778-43-0	General	Gloves, Respirator, Goggles	
Sodium bicarbonate	D1, E	144-55-8	Corrosives	Goggles, Apron	
Sodium bisulfate	E	7681-38-1	Corrosives	Goggles, Apron	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Sodium bisulfite	D2	7631-90-5	General	Goggles, Apron	
Sodium borate	WHMIS EXEMPT	1303-96-4	General	Goggles, Apron	
Sodium bromide	WHMIS EXEMPT	7647-15-6	General	Goggles, Apron	
Sodium carbonate	D1,E	497-19-8	Corrosives	Goggles, Apron	
Sodium chlorate	C	7775-09-9	General	Goggles, Apron, Gloves	Use Potassium chlorate
Sodium chloride	WHMIS EXEMPT	7647-14-5	General	Goggles, Apron	
Sodium chromate	C,D2	7775-11-3	General	Goggles, Apron, Gloves	
Sodium citrate	WHMIS EXEMPT	61632-04-3	General	Goggles, Apron	
Sodium dichromate	D1, D2, E, F	10588-01-9	Corrosives	Goggles, Apron, Gloves	Not required in program
Sodium fluoride	D1, D2	7681-49-4	General	Goggles, Apron, Gloves	Fatal if ingested
Sodium hydroxide	E	1310-73-2	Corrosives	Goggles, Apron, Gloves	
Sodium hypochlorite <16%Cl	E	7681-52-9	Corrosives	Goggles, Apron	
Sodium iodide	D2	7681-82-5	General	Goggles, Apron	
Sodium Lauryl Sulfate	B4	151-21-3	Flammable solids	Goggles, Apron	
Sodium metabisulfite	D2	7681-57-4	General	Goggles, Apron	
Sodium metal	B4, B6	7440-23-5	Flammable solids	Goggles, Apron, Gloves	
Sodium nitrate	C, D2	7631-99-4	General	Goggles, Apron	
Sodium nitrite	C, D1, D2	7632-00-0		Goggles, Apron, Gloves	
Sodium Oleate Powder	WHMIS EXEMPT	143-19-1	General	Goggles, Apron, Gloves	Not required in program
Sodium oxalate	WHMIS EXEMPT	62-76-0	General	Goggles, Apron	Fatal if ingested, inhaled
Sodium peroxide	C	1313-60-6	General	Goggles, Apron	Toxic fumes avoid moisture
Sodium phosphate	WHMIS EXEMPT	7558-79-4	General	Goggles, Apron	
Sodium salicylate	D2	54-21-7	General	Goggles, Apron	
Sodium silicate	D2	1344-09-8	General	Goggles, Apron	Not required in program
Sodium sulfate	D2	7757-82-6	General	Goggles, Apron	
Sodium sulfide >30% H2O	D1, D2, E	1313-84-4	Corrosives	Goggles, Apron, Gloves	
Sodium tetraborate	D1	1330-43-4	General	Goggles, Apron	
Sodium thiosulfate	WHMIS Exempt	7772-98-7	General	Goggles, Apron, Gloves	
Stannic chloride	D1, D2, E	7646-78-8	Corrosives	Goggles, Apron, Gloves	

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Stannic Oxide	D2	18282-10-5	General	Goggles, Gloves	
Stannous chloride	D2	7772-99-8	General	Goggles, Apron, Gloves	
Starch	WHMIS Exempt	9005-25-8	General	Goggles, Apron	
Stearic acid	WHMIS Exempt	57-11-4	General	Goggles, Apron	
Steel	WHMIS Exempt		General	Goggles,	
Stoddard Solvent	B3	8052-41-3	Flammables	Goggles, Gloves, Lab Coat	
Strontium chloride	WHMIS Exempt	10025-70-4	General	Goggles, Apron	
Strontium nitrate	C, D2	10042-76-9	General	Goggles, Apron	
Succinic acid	D2	110-15-6	General	Goggles, Apron, Gloves	
Sucrose	WHMIS Exempt	57-50-1	General	Goggles, Apron	
Sulfanilic acid	D2	121-57-3	General	Goggles, Apron	
Sulfur	B4, D2	7704-34-9	Flammable solids	Goggles, Apron	
Sulfuric acid	D1, E	7664-93-9	Corrosives	Goggles or Face shield Apron, Gloves	

T

Talc	D1, D2,	14807-96-6	Misc.	Goggles, Apron, respirator	
Tannic acid	WHMIS Exempt	1401-55-1	General	Goggles, Apron	Not required in program
Tartaric acid	E	87-69-4	Corrosives	Goggles, Apron	
Tartrazine	WHMIS Exempt	1934-21-0	General	Goggles, Gloves	
Tin metal	D2	7440-31-5	General	Goggles, Apron	
Titanium dioxide	WHMIS Exempt	13463-67-7	General	Goggles, Apron	
Toluene	B2,D2	108-88-3	Flammables	Goggles, Apron, Gloves	Teratogenic
Toluidine blue	B3, D1	92-31-9	Flammables	Goggles, Gloves	
Trichloroacetic acid	D1, E	76-03-9		Gloves, Respirator, protective clothing	Not required in program
Turpentine Oil	B2, D2	8006-64-2	Flammables	Goggles, Gloves, Lab Coat	Not required in program

U

Universal Peptone M66 powder	WHMIS Exempt		General	Goggles, Gloves	
Universal PH Indicator	B	Mixture	Flammables	Goggles, Gloves, Lab Coat	
Urea	D2, F	57-13-6	General	Goggles, Gloves, Lab Coat	Not required in program
Urea reagent ACS	D2	57-13-7	General	Goggles, Gloves, Lab Coat	

X

Name	WHMIS Class	CAS #	Storage Area	PPE	Comments
Y					
Yeast	WHMIS Exempt		General	Goggles, Apron	
Z					
Zinc acetate	D2	5970-45-6	General	Goggles, Apron	
Zinc carbonate	WHMIS EXEMPT	3486-35-9	General	Goggles, Apron	
Zinc chloride	D1, D2, E	7646-85-7	General	Goggles, Apron, Gloves	
Zinc metal	WHMIS EXEMPT	7440-66-6	General	Goggles, Apron	
Zinc nitrate	C, D2	10196-18-6	General	Goggles, Apron	
Zinc oxide	D2	1314-13-2	General	Goggles, Apron	
Zinc sulfate	WHMIS EXEMPT	7446-19-7	General	Goggles, Apron, Gloves	
Zinc sulfide	WHMIS EXEMPT	1314-98-3	General	Goggles, Apron, Gloves	