

Department of Public Health & Environment

Combined Prohibited and Restricted Chemical Lists

This document is a combined and alphabetized list of the Prohibited and Restricted Chemicals as defined and listed in the Rules and Regulations Governing Schools in the State of Colorado, 6 CCR 1010-6, Appendices A, B, and B2. This combined list can be used as a supplement to the Rules and Regulations and as a quick reference format when conducting such activities as a chemical inventory or during the chemical procurement process.

Shelf life descriptions are provided for each chemical to assist in evaluating a timeframe for safe chemical use and storage. In general, chemical shelf life descriptions are as follows: POOR - less than 1 year; FAIR - 1 to 3 years; GOOD - 3 to 5 years; and EXCELLENT or INDEFINITE - greater than 5 years. Additional oversight for chemicals with a shelf life of less than 3 years is important to ensure that they are not stored or used past their shelf life or expiration date, at which point they may become unstable and dangerous. Completion of Table 2 on the Restricted Chemical Variance Application Form is required for any chemicals with a shelf life of less than 3 years and/or those chemicals that are known to have issues with container integrity or other hazards associated with their use and storage in a school environment. Please see "Limited Shelf Life - Table 2 Required?" column on this list before completing the variance application form.

Please note that the hazard information and shelf life descriptions provided for the listed chemicals is not intended to address all safety concerns. Before attempting to work with any new chemical, review and comply with information provided on the Safety Data Sheet (SDS).

In addition to this document, please refer to the Rules and Regulations Governing Schools in the State of Colorado, 6 CCR 1010-6, available at https://www.colorado.gov/pacific/cdphe/colorado-health-safety-regulations-schools.

NAME	CHEMICAL CLASS	FORMULA	CAS #	Hazard	Shelf Life	Limited	Storage
1-Naphthol (alpha Naphthol)	Restricted	C10H7OH	90-15-3	toxic	Indefinite	NO	NA
2,2,4-Trimethylpentane	Restricted	C8H18	540-84-1	highly flammable; toxic	Limited; refer to	YES	O-3 Flam Cabinet
2-Butanol (sec-Butyl Alcohol)	PROHIBITED	C2H5CH(OH)CH3	78-92-2	may form explosive peroxides upon	NA	NA	O-2 Flam Cabinet
2-Butanone (Methyl Ethyl	Restricted	CH3COC2H5	78-93-3	highly flammable; may form explosive	Good	NO	O-4 Flam Cabinet
2-Chlorophenyl Isocyanate	Restricted	C7H4CINO	3320-83-0	poison; highly flammable	Fair	YES	NA
Acetal (1,1-Diethoxyethane)	PROHIBITED	C6H14O2	105-57-7	may form explosive peroxides upon	NA	NA	O-4 Flam Cabinet
Acetaldehvde (Ethanal)	PROHIBITED	СН3СНО	75-07-0	may form explosive peroxides upon	NA	NA	O-3 Flam Cabinet
Acetamide	Restricted	CH3CONH2	60-35-5	possibly carcinogenic to humans	Poor: deliguescent	YES	O-2 Flam Cabinet

Acetanilide (n-	Restricted	CH3CONHC6H5	103-84-4	combustible: irritant	Indefinite	NO	O-2 Flam Cabinet
	Restricted	CH3COOH	64-19-7	flammable: corrosive	Good	NO	O-2 Flam Cabinet
	Restricted	(CH3CO)2O	108-24-7	water-reactive; corrosive; flammable	Good	NO	O-1 Flam Cabinet
Acetone	Restricted	СНЗСОСНЗ	67-64-1	highly flammable; inhalation hazard	Good	NO	O-4 Flam Cabinet
	PROHIBITED	CH3COCH3	107-04-1	respiratory irritant, toxic; violent	NA	NA NA	O-4 Acid Cabinet
	PROHIBITED	CH3CONO3	591-09-3		NA	NA NA	NA
			66-23-9	shock sensitive	Good	NO NO	NA 0-9
Acetylcholine Bromide	Restricted	C7H16BrNO2		toxic; irritant		YES	0-9
Acridine Orange	Restricted	C17H19N3	10127-02-3	irritant	Fair (48 months)		O-3 Flam Cabinet
	PROHIBITED	CH2CHCHO	107-02-8		NA	NA	O-1 Flam Cabinet
	PROHIBITED	H2CCHCO2H	79-10-7		NA	NA	O-7 Flam Cabinet
Acrylonitrile	PROHIBITED	CH2CHCN	107-13-1	may form explosive peroxides; possibly	NA	NA	O-1
	Restricted	ClOC(CH2)4COCl	111-50-2	corrosive	Poor	YES	
	PROHIBITED			may form explosive peroxides upon	NA	NA	O-2 Flam Cabinet
Alizarin Red	Restricted	C14H7NaO7S	130-22-3	toxic	Indefinite	NO	0-9
Alkyl Aluminum Chloride	Restricted	Unavailable	Unavailable	water reactive	Poor; deliguescent	YES	NA
Alkyl-Substituted	PROHIBITED			may form explosive peroxides upon	NA	NA	O-3 Flam Cabinet
Aluminum (Powder)	Restricted	Al	7429-90-5	water-reactive: strong reducing agent:	Indefinite	NO	I-1
	Restricted	AL(C2H3O2)2OH	142-03-0	toxic	Good	NO	NA
Aluminum Bromide	Restricted	AlBr3	7727-15-3	air- and water-reactive; corrosive	Fair	YES	1-2
Aluminum Chloride	Restricted	AlCl3·6H2O	7784-13-6	water-reactive; corrosive	Poor: deliguescent	YES	1-2
Aluminum Chloride,	DEMO ONLY	AlCl3	7446-70-0	air-and water-reactive: fumes in moist	Good	NO	1-2
Aluminum Fluoride	Restricted	AlF3	7784-18-1	water-reactive; corrosive; inhalation	Fair	YES	1-2
Aluminum Hydroxide	Restricted	AL(OH)3	21645-51-2	possibly toxic	Indefinite	NO	I-4 Base Cabinet
Aluminum Nitrate	Restricted	AL(NO3)3-9H2O	7784-27-2	strong oxidizer	Indefinite	NO	I-3
Aluminum Phosphide	PROHIBITED	AlP	20859-73-8	water-reactive; generates poisonous and	NA	NA	1-5
Aluminum Tetrahydroborate	Restricted	Al(BH4)3	16962-07-5	poison; air- and water-reactive;	Fair	YES	I-1 Flam Cabinet
Amatol (TNT and Ammonium	PROHIBITED			explosive	NA	NA	NA
Ammonal (TNT, Ammonium	PROHIBITED			explosive	NA	NA	NA
Ammonia Solutions in Water	Restricted	NH3	7664-41-7	corrosive; reactive; toxic	Indefinite	NO	I-4 Base Cabinet
Ammonia, Anhydrous	Restricted	NH3	7664-41-7	poison; water-reactive; inhalation	Indefinite	NO	Gas - Poison
Ammonium Acetate	Restricted	NH4C2H3O2	631-61-8	inhalation hazard; irritant	Poor; deliguescent	YES	1-2
Ammonium Bicarbonate	Restricted	NH4HCO3	1066-33-7	inhalation hazard; irritant	Good	NO	1-4
Ammonium Bromate	PROHIBITED	NH4BrO3	13843-59-9	shock sensitive	NA	NA	1-6
Ammonium Bromide	Restricted	NH4Br	12124-97-9	inhalation hazard: irritant	Fair to poor:	YES	1-2
Ammonium Carbonate	Restricted	NH4CO3	10361-29-2	inhalation hazard; irritant	Indefinite	NO	1-4
Ammonium Chlorate	PROHIBITED	NH4ClO3	10192-29-7	strong oxidizer: explosive	NA	NA	1-6
Ammonium Chloride	Restricted	NH4Cl	12125-02-9	toxic: inhalation hazard: irritant	Fair to poor;	YES	1-2
	Restricted	(NH4)2CrO4	7788-98-9	chromium (VI) compounds are	Indefinite	NO	1-8
Ammonium Dichromate (100	DEMO ONLY	(NH4)2Cr2O7	7789-09-5	oxidizer; chromium (VI) compounds	Fair	YES	1-8
Ammonium Fluoride	Restricted	NH4F	12125-01-8	corrosive; toxic	Fair to poor;	YES	1-2

Ammonium	PROHIBITED	NH3Co(NO2)6	13600-98-1	explosive	NA	NA	NA
Ammonium Hydroxide	Restricted	NH4OH	1336-21-6	inhalation hazard: severely corrosive	Indefinite	NO	I-4 Base Cabinet
Ammonium lodide	Restricted	NH4I	12027-06-4	inhalation hazard	Fair to poor;	YES	1-2
Ammonium Molybdate	Restricted	(NH4)6Mo7O24·4H2	12054-85-2	toxic	Indefinite	NO	1-8
Ammonium Nitrate (500 g	Restricted	NH4NO3	6484-52-2	shock sensitive; oxidizer	Poor; very	YES	I-3 Separate from
Ammonium Nitrite	PROHIBITED	NH4NO2	13446-48-5	explosive	NA	NA	NA
Ammonium Oxalate	Restricted	(NH4)2C2O4·H2O	6009-70-7	corrosive; toxic	Indefinite	NO	1-2
Ammonium Perchlorate	PROHIBITED	NH4ClO4	7790-98-9	strong oxidizer; explosive; irritant	NA	NA	1-6
Ammonium Periodate	PROHIBITED	NH4IO4	13446-11-2	strong oxidizer; explosive; irritant;	NA	NA	NA
Ammonium Permanganate	PROHIBITED	NH4MnO4	13446-10-1	explosive	NA	NA	1-8
Ammonium Persulfate (100 g	DEMO ONLY	(NH4)2S2O8	7727-54-0	strong oxidizer; explosion hazard	Indefinite	NO	1-6
Ammonium Phosphate,	Restricted	(NH4)2HPO4	7783-28-0	respiratory hazard; potential for skin and	Indefinite	NO	1-2
Ammonium Phosphate,	Restricted	NH4H2PO4	7722-76-1	respiratory hazard; potential for skin and	Indefinite	NO	1-2
Ammonium Sulfate	Restricted	(NH4)2SO4	7783-20-2	respiratory hazard	Indefinite	NO	1-2
Ammonium Sulfide	Restricted	(NH4)2S	12135-76-1	respiratory hazard; corrosive; poison;	Good	NO	1-5
Ammonium Tartrate	Restricted	(NH4)2C4H4O6	3164-29-2	irritant	Fair	YES	I-2
Ammonium	PROHIBITED	(NH4)3CrO8		explosive	NA	NA	NA
Ammonium Thiocvanate	Restricted	NH4SCN	1762-95-4	inhalation hazard; strong reducing agent	Poor: deliquescent	YES	1-7
Amyl Acetate	Restricted	CH3COOC5H11	628-63-7	flammable; toxic	Good	NO	O-3 Flam Cabinet
Aniline	Restricted	C6H5NH2	62-53-3	acutely toxic	Poor	YES	0-2
Aniline Hydrochloride	Restricted	C6H5NH2·HCl	142-04-1	corrosive; acutely toxic	Poor	YES	0-2
Anisovl Chloride	Restricted	C8H7ClO2	100-07-2	air- and water- reactive: corrosive:	Fair	YES	1-2
Antimony Compounds (e.g.,	PROHIBITED			dust fire and explosion hazard: poison:	NA	NA	1-2
Antimony Metal (50 g limit)	DEMO ONLY	Sb	7440-36-0	poison; combustible powder; strong	Indefinite	NO	I-1
Arsenic and Arsenic	PROHIBITED			carcinogenic to humans; poison	NA	NA	1-4
Azide Compounds (e.g.,	PROHIBITED			acutely toxic; shock sensitive; explosive	NA	NA	1-3
Azidocarbonvl Guanidine	PROHIBITED	C2H4N6O	54567-24-7	shock sensitive, explosive	NA	NA	NA
Barium	PROHIBITED	Ba	7440-39-3	water-reactive; may ignite on contact	NA	NA	I-1
Barium Acetate	Restricted	Ba(C2H3O2)2	543-80-6	acutely toxic	Indefinite	NO	1-2
Barium Carbide	Restricted	BaC2	50813-65-5	water-reactive: toxic	Fair	YES	1-5
Barium Chlorate	PROHIBITED	Ba(ClO3)2·H2O	13477-00-4	explosive: strong oxidizer: toxic	NA	NA	1-6
Barium Chloride, Dihydrate	Restricted	BaCl2·2H2O	10326-27-9	poison; acutely toxic	Indefinite	NO	1-2
Barium Nitrate	Restricted	Ba(NO3)2	10022-31-8	oxidizer; toxic	Indefinite	NO	1-3
Barium Oxide (Anhydrous)	PROHIBITED	BaO	1304-28-5	poison: water-reactive	NA	NA	1-4
Barium Peroxide	PROHIBITED	BaO2	1304-29-6	poison: water-reactive: oxidizer	NA	NA	1-6
Benzaldehyde	Restricted	С6Н5СНО	100-52-7	combustible	Fair	YES	O-3 Flam Cabinet
Benzene	PROHIBITED	C6H6	71-43-2	carcinogenic to humans: flammable	NA	NA	O-3 Flam Cabinet
Benzene Diazonium Chloride	PROHIBITED	C6H5ClN2	100-34-5	explosive	NA	NA	0-6
Benzene Phosphorus	Restricted	C6H5PCl2	644-97-3	air-and water-reactive: fumes in air:	Fair	YES	NA

Benzoic Acid	Restricted	С6Н5СООН	65-85-0	concentrated dust may form explosive	Indefinite	NO	0-1
Benzotriazole	PROHIBITED	C6H5N3	95-14-7	explosive	NA	NA	0-6
Benzovl Peroxide	PROHIBITED	(C6H5CO)2O2	94-36-0	flammable: explosive: oxidizer:	NA	NA NA	0-6
Benzyl Alcohol	PROHIBITED	C6H5CH2OH	100-51-6	reacts violently with oxidants: may form	NA	NA NA	O-2 Flam Cabinet
Benzyl Chloride	Restricted	C6H5CH2Cl	100-31-0	probably carcinogenic to humans:	Fair	YES	0-4
			100-44-7		Fair	YES	O-2 Flam Cabinet
Benzylamine Benzylandium	Restricted	C6H5CH2NH2	1121-53-5	corrosive: poison: combustible water reactive; ignites spontaneously in	Fair	YES	NA NA
Benzylsodium	Restricted	C7H7Na					I-1
Beryllium Tetrahydroborate	Restricted	Be(BH4)2	17440-85-6	violently air- and water-reactive;	Fair	YES	·····
Biphenvl (Diphenvl)	Restricted	C6H5C6H5	92-52-4	irritant: combustible	Limited: refer to	YES	0-3
Bismuth Nitrate	PROHIBITED	Bi(NO3)3·5H2O	10035-06-0	strong oxidizer: contact with other	NA .	NA	1-3
Bismuth Pentafluoride	Restricted	BiF5	7787-62-4	water-reactive; toxic	Fair	YES	1-2
Boranes and Diboranes (e.g.,	PROHIBITED			poison; flammable; water-reactive	NA	NA	1-2
Boric Acid	Restricted	НЗВОЗ	10043-35-3	harmful if swallowed	Indefinite	NO	1-9
Boron Bromide Diiodide	Restricted	BBrl2	14355-21-6	violently water-reactive	Fair	YES	1-2
Boron Dibromoiodide	Restricted	BBr2l	unavailable	violently water-reactive	Fair	YES	1-2
Boron Phosphide	Restricted	BP	20205-91-8	water-reactive	Fair	YES	I-5
Boron Trichloride	Restricted	BCl3	13517-10-7	water-reactive: toxic	Fair	YES	Gas Cylinder
Bromine (3-1 g ampules	DEMO ONLY	Br2	7726-95-6	strong oxidizer: reacts violently with	Indefinite	NO	I-2 Acid Cabinet
Bromine Fluoride	Restricted	BrF	13863-59-7	water-reactive	Fair	YES	1-2
Bromine Pentafluoride	PROHIBITED	BrF5	7789-30-2	oxidizer; poison; inhalation hazard;	NA	NA	1-2
Bromine Trifluoride	PROHIBITED	BrF3	7787-71-5	oxidizer; poison; inhalation hazard;	NA	NA	1-2
Bromine Water	Restricted	Br2 + H2O	7726-95-6	corrosive: irritating fumes: toxic	Indefinite	NO	I-2 Acid Cabinet
Bromobenzene	Restricted	C6H5Br	108-86-1	highly flammable; toxic	Indefinite	NO	O-4 Flam Cabinet
Bromodiethylaluminum	Restricted	C4H10AlBr	760-19-0	water-reactive	Fair	YES	NA
Bromoform	Restricted	CHBr3	75-25-2	poison: lachrymator	Good	NO	0-4
Butadiene	PROHIBITED	C4H6	106-99-0	may for explosive peroxides:	NA	NA	Gas Cylinder
	PROHIBITED	C4H7N3O9	6659-60-5	explosive	NA	NA	NA
Butanol (n-Butyl Alcohol)	Restricted	CH3(CH2)3OH	71-36-3	highly flammable: toxic	Fair	YES	O-2 Flam Cabinet
Butvric Acid	Restricted	CH3CH2CH2COOH	107-92-6	corrosive: combustible: stench agent:	Indefinite	NO	O-1 Flam Cabinet
Cadmium and Cadmium	PROHIBITED		1.57	carcinogenic to humans: highly toxic	NA	NA	I-1
Calcium (100 g limit)	Restricted	Ca	7440-70-2	water-reactive; flammable solid	Good	NO	I-1
Calcium Bromide	Restricted	CaBr2	7789-41-5	toxic	Good	NO	1-2
Calcium Carbide (100 g limit)	DEMO ONLY	CaC2	75-20-7	water-reactive; reacts violently with	Good	NO	1-5
Calcium Hypochlorite	Restricted	Ca(ClO)2	7778-54-3	strong oxidizer: reactive: toxic	Fair to poor	YES	1-6
Calcium Nitrate Tetrahydrate		Ca(NO3)2·4H2O	13477-34-4	strong oxidizer: shock sensitive	Fair to poor:	YES	I-3
Calcium Nitrate, Anhydrous	PROHIBITED	Ca(NO3)2·4H2O	10124-37-5	strong oxidizer; may explode if shocked	NA	NA NA	1-3
Calcium Permanganate	PROHIBITED	Ca(MnO4)2	10124-37-3	strong oxidizer	NA	NA NA	II-8
Calcium Phosphide (CP)	Restricted	Ca(MnO4)2	1305-99-3	violently air- and water- reactive: strong	Fair	YES	1-5
	T		+				0-4
Camphor Disulfide (Cambon	Restricted	C10H16O	76-22-2	toxic; flammable solid; combustible	Indefinite	NO NO	I-5 Flam Cabinet
Carbon Disulfide (Carbon	Restricted	CS2	75-15-0	highly flammable: poison: severe fire	Indefinite	NO	1-2 FIGHT CAPIFIEL

Carbon Tetrachloride	PROHIBITED	CCI4	56-23-5	possibly carcinogenic to humans; acutely	ΝΔ	NA	0-4
Cerium (IV) Sulfate (Ceric	Restricted	Ce(SO4)2	13590-82-4	strong oxidizer: corrosive: irritant	Limited: refer to	YES	NΔ
	Restricted	CsH2N	22205-57-8	water-reactive	Fair	YES	0-2
Cesium Phosphide	Restricted	Cs3P	113737-02-3	water-reactive	Fair	YES	I-5
Chloral Hydrate	PROHIBITED	CCl3CH(OH)2	302-17-0	controlled barbiturate: probably	NA	NA	0-2
Chlorine	PROHIBITED	CI2	7782-50-5	oxidizer, corrosive, may be fatal if	NA	NA	Gas Cylinder
Chlorine Dioxide	PROHIBITED	ClO2	10049-04-4	ү	NA	NA	NA
Chlorine Fluoride	Restricted	CLF	7790-89-8	strong oxidizer; water-reactive	Fair	YES	NΑ
Chlorine Pentafluoride	Restricted	CIF5	13637-63-3	water-reactive	Fair	YES	NA
Chlorine Trifluoride	PROHIBITED	ClF3	7790-91-2	powerful oxidizer: explosive reaction	NA.	NA.	NA
Chlorine Trioxide	PROHIBITED	ClO3	13932-10-0	shock sensitive; explosive	NA	NA	NA
Chloroacetic Acid	Restricted	C2H3ClO2	79-11-8	acutely toxic: corrosive	Indefinite	NO	0-1
Chloroacetyl Chloride	Restricted	C2H2Cl2O	79-04-9	air- and water-reactive: corrosive:	Good	NO	1-2
Chloroacetylene	PROHIBITED	C2HCl	593-63-5	shock sensitive: air reactive	NA	NA	NΔ
Chlorobenzene	Restricted	C6H5Cl	108-90-7	highly flammable: inhalation hazard	Limited; refer to	YES	O-4 Flam Cabinet
Chlorodiisobutyl Aluminum	Restricted	C8H18AlCl	1779-25-5	water-reactive; highly flammable	Fair	YES	NA
Chloroform	PROHIBITED	CHCl3	67-66-3	poison: possibly carcinogenic to humans	NA	NA	0-4
Chloropicrin	PROHIBITED	CCl3NO2	76-06-2	shock sensitive: explosive: poison:	NA	NA	NA
Chloroprene	PROHIBITED	C4H5Cl	126-99-8	ү	NA	NA	O-4 Flam Cabinet
Chlorotrifluoroethylene	PROHIBITED	C2F3Cl	79-38-9	may form explosive peroxides	NA	NA	O-4 Flam Cabinet
Chromic Acid	Restricted	CrO3	1333-82-0	chromium (VI) compounds are	Poor	YES	I-8 Acid Cabinet
Chromic Chloride (Chromium	PROHIBITED	CrCl3·6H2O	10060-12-5	acutely toxic: fatal if inhaled	NA	NA	I-2
Chromium (III) Nitrate	Restricted	Cr(NO3)3-9H2O	7789-02-8	oxidizer; toxic	Good	NO	I-3
Chromium (III) Sulfate	Restricted	Cr2(SO4)3·nH2O	10101-53-8	corrosive; toxic	Indefinite	NO	I-2
Chromium (Powder)	PROHIBITED	Cr	7440-47-3	flammable: toxic	NA	NA	I-1
Chromium Oxide (Chromic	DEMO ONLY	Cr2O3	1308-38-9	strong oxidizer; poison; corrosive	Indefinite	NO	I-4
Chromium Trioxide	Restricted	CrO3	1333-82-0	chromium (VI) compounds are	Poor	YES	I-4
Chromyl Chloride	PROHIBITED	CrO2Cl2	14977-61-8	water-reactive; chromium (VI)	NA	NA	I-2
Cobalt (II) Nitrate	Restricted	Co(NO3)2·6H2O	10026-22-9	cobalt and cobalt compounds are	Poor: deliguescent	YES	I-3
Cobalt (Powder)	PROHIBITED	Со	7440-48-4	possibly carcinogenic to humans	NA	NA	I-1
Colchicine	PROHIBITED	C22H25NO6	64-86-8	acutely toxic	NA	NA	0-2
Collodion (a solution of	DEMO ONLY	C25H33O13(NO3)7	9004-70-0	highly flammable	Fair	YES	O-4 Flam Cabinet
Copper (II) Bromide (Cupric	Restricted	CuBr2	7789-45-9	toxic: irritant	Poor: deliguescent	YES	I-2
Copper Acetylide	PROHIBITED	Cu2C2	1117-94-8	explosive	NA	NA	NA
Cumene (Isopropylbenzene)	PROHIBITED	C6H5CH(CH3)2	98-82-8	may form explosive peroxides upon	NA	NA	O-4 Flam Cabinet
Cvcloheptanone	PROHIBITED	C7H12O	502-42-1	may form explosive peroxides:	NA	NA	0-2
Cyclohexane	Restricted	CH2(CH2)4CH2	110-82-7	highly flammable; poison	Indefinite	NO	O-3 Flam Cabinet
Cyclohexanol	PROHIBITED	C6H11OH	108-93-0	may form explosive peroxides upon	NA	NA	O-2 Flam Cabinet
Cyclohexanone (100 mL	DEMO ONLY	C6H10O	108-94-1	highly flammable; vapors may travel a	Fair	YES	O-4 Flam Cabinet
Cyclohexene (100 mL limit)	DEMO ONLY	C6H10	110-83-8		Poor	YES	O-3 Flam Cabinet

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	DEMO ONLY		120-92-3	highly flammable; vapors may travel a	Good	NO	O-4 Flam Cabinet
Cvclopentene	PROHIBITED	C5H8	142-29-0	may form explosive peroxides upon	NA	NA	O-3 Flam Cabinet
Diacetylene (Butadiyne)	PROHIBITED	· · · · · · · · · · · · · · · · · · ·	460-12-8	may form explosive peroxides upon	NA	NA	NA
Diazidoethane	PROHIBITED	C2H4N6	629-13-0	explosive	NA		NA
Diazodinitrophenol (DDNP)	PROHIBITED	C6H2N4O5	4682-03-05	explosive	NA	NA	NA
Diazomethane	PROHIBITED	CH2N2	334-88-3	poisonous and flammable gas	NA	NA	Gas Cylinder
Dichloromethane (Methylene	Restricted		75-09-2	probably carcinogenic to humans; poison	Good	.,•	0-4
Dicyclopentadiene	PROHIBITED	C10H12	77-73-6	may form explosive peroxides upon	NA	NA	O-3 Flam Cabinet
Diethyl Aluminum Chloride	Restricted	C4H10AlCl	96-10-6	water-reactive; highly flammable;	Fair	YES	NA
Diethyl Zinc (DEZ)	Restricted	C4H10Zn	557-20-0	air- and water-reactive: highly	Fair	YES	NA
Diglyme (Diethylene Glycol	DEMO ONLY	(CH3O)CH2	111-96-6	combustible; oxidizes readily in air to	Limited; refer to	YES	0-2
Diisopropyl Beryllium	Restricted	C6H14Be	15721-33-2	water-reactive; beryllium compounds	Fair	YES	NA
Diisopropyl Ether	PROHIBITED	C6H14O	108-20-3	may form explosive peroxides	NA	NA	O-4 Flam Cabinet
Dimethyl Magnesium	Restricted	C2H6Mg	2999-74-8	air- and water-reactive: spontaneously	Fair	YES	NA
Dinitrophenol	PROHIBITED	C6H3OH(NO2)2	51-28-5	explosive	NA	NA	0-8
Dinitrophenylhydrazine (100	DEMO ONLY	C6H6N4O4	119-26-6	flammable solid; explosive when dry	Good	NO	O-4
Dioxane	PROHIBITED	C4H802	123-91-1	may form explosive peroxides upon	NA	NA	O-4 Flam Cabinet
Dipentaerythritol	PROHIBITED	C10H16N6O19	13184-80-0	explosive	NA	NA	NA
Diphenylamine	Restricted	(C6H5)2NH	122-39-4	poison	Indefinite	NO	0-2
Diphenylmethane-4,4	Restricted	C15H10N2O2	101-68-8	poison	Poor	YES	0-5
Disulfur Dinitride	PROHIBITED	S2N2	25474-92-4	explosive	NA	NA	NA
Divinvl Acetylene	PROHIBITED	С6Н6	821-08-9	may form explosive peroxides; acutely	NA	NA	NA
Divinyl Ether	PROHIBITED	C4H6O2	109-93-3	may form explosive peroxides; highly	NA	NA	O-4 Flam Cabinet
Ethanol (Ethyl Alcohol)	Restricted	C2H5OH	64-17-5	highly flammable	Indefinite	NO	O-2 Flam Cabinet
Ethvl Acetate	Restricted	CH3COOC2H5	141-78-6	highly flammable; toxic; may form	Good	NO	O-3 Flam Cabinet
Ethvl Ether (diethvl ether)	PROHIBITED	(C2H5)2O	60-29-7	may form explosive peroxides upon	NA	NA	O-4 Flam Cabinet
Ethyl Methacrylate	Restricted	CH2CCH3COOC2	97-63-2	highly flammable; polymerizable	Poor	YES	NA
Ethyl Nitrite	PROHIBITED	C2H5NO2	109-95-5	explosive	NA	NA	NA
Ethylene Dichloride (1,2-	Restricted	C2H4Cl2	107-06-2	highly flammable; possibly carcinogenic	Poor	YES	O-4 Flam Cabinet
Ethylene Glycol Dimethyl	PROHIBITED	C4H10O2	28923-39-9	may form explosive peroxides upon	NA	NA	O-4 Flam Cabinet
			628-96-6	explosive	NA	NA	NA
Ethylene Oxide	PROHIBITED		75-21-8	carcinogenic to humans: flammable:	NA	NA	Gas Cylinder
Ethylenediamine	Restricted	NH2CH2CH2NH2	107-15-3	highly flammable; air-reactive; corrosive	Poor		O-3 Flam Cabinet
FAA Solution (Formalin-Aceto-				flammable: acutely toxic: carcinogenic	Good	NO	O-2 Flam Cabinet
Fehlings Solution A (Copper	Restricted			acutely toxic	Fair	YES	I-2
	Restricted			caustic; toxic	Fair	YES	I-4 Base Cabinet
	Restricted	FeCl3	7705-08-0	corrosive: inhalation hazard	Poor		I-2
	Restricted		7782-61-8	strong oxidizer: irritant: explosion	Good		I-3
Fluorine Monoxide (Oxygen	Restricted		7783-41-7	strong oxidizer: air- and water-reactive:	Fair	YES	Gas Cvlinder
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Formaldehvde	PROHIBITED	CH2O	50-00-0	carcinogenic to humans; poison; may	NA	NA	0-3
Formalin	Restricted		50-00-0	toxic: corrosive: carcinogenic to humans	Indefinite	NO	0-3
Formic Acid	Restricted		64-18-6	flammable; corrosive	Poor	YES	O-1 Flam Cabinet
Furan	PROHIBITED	C4H4O	110-00-9	possibly carcinogenic to humans; may	NA	NA	O-4 Flam Cabinet
Gasoline	Restricted	UNDEFINED	8006-61-9 or	highly flammable: possibly carcinogenic	Poor	YES	O-3 Flam Cabinet
Glutaraldehvde	Restricted	OCH(CH2)3CHO	111-30-8	water-reactive: toxic	Indefinite	NO	0-3
Glycerol Monolactate	PROHIBITED	C6H9N3O11		explosive	NA	NA	NA
Gold Acetylide	Restricted	C2Au2	70950-00-4	explosive; shock sensitive; water	Fair	YES	NA
Cota Acceytiac	Restricted	CZAUZ	70750 00 1	reactive	l uii		
Grignard Reagents and their	PROHIBITED			Both the Grignard Reagent and the	NA	NA	NA
Guanyl Nitrosamino	PROHIBITED			explosive: strong oxidizer	NA	NA	0-2
Hematoxylin	Restricted	C16H14O6	517-28-2	toxic	Fair	YES	0-9
Hexamethylene Diisocyanate	Restricted	***************************************	822-06-0	water-reactive: toxic	Fair	YES	NΔ
Hexamethylenediamine (1, 6-	I	H2N(CH2)6NH2	124-09-4	corrosive: toxic	Indefinite	NO	O-2 Base Cabinet
Hexyl Alcohol	PROHIBITED	CH3(CH2)4CH2OH	111-27-3	highly flammable: poison	NA	NA	0-5
HMX	PROHIBITED	C4H8N8O8	2691-41-0	explosive	NA	NA	0-6
Hydrides, Borohydrides (e.g.,	DEMO ONLY	Unavailable	<u> </u>	strong reducing agents: air-and water-	sodium borohydride:	YES	0-1
Hydriodic Acid	Restricted	HI	10034-85-2	acutely toxic: corrosive	Fair	YES	I-9 Acid Cabinet
Hydrobromic Acid	Restricted	HBr	10035-10-6	acutely toxic: water-reactive: corrosive	Fair	YES	I-9 Acid Cabinet
Hvdrochloric Acid (Muriatic	Restricted	HCI	7647-01-0	toxic: severely corrosive	Good	NO	I-9 Acid Cabinet
Hvdrofluoric Acid	PROHIBITED	HF	7664-39-3	corrosive: may be fatal if inhaled or	NA	NA	I-9 Acid Cabinet
	DEMO ONLY	H2	13333-74-0	flammable gas; burns with a pale blue,	Indefinite	NO	Gas Cylinder
Hydrogen Peroxide (>30%)	PROHIBITED	H2O2	7722-84-1	fire and explosion risk, severely	NA	NA	1-6
Hydrogen Peroxide (30% or	Restricted		7722-84-1	readily decomposes with almost	Fair to Poor	YES	I-6
Hydrogen Sulfide	PROHIBITED	H2S	7783-06-4	highly flammable; exposure to very high	NA	NA	Gas Cylinder
Hydroguinone (Benzene-1, 4-	Restricted	C6H4(OH)2	123-31-9	toxic	Poor	YES	0-4
Hydroxylamine Hydrochloride		NH2OH·HCl	5470-11-1	toxic: strong reducing agent	Poor	YES	0-2
lodine	Restricted	12	7553-56-2	poison; strong oxidizing agent	Fair	YES	I-2
lodine Monochloride	Restricted	ıcı	7790-99-0	toxic: water-and air-reactive: strong	Poor	YES	I-2
Iron (powder)	Restricted	Fe	7439-89-6	metal dust may present a fire hazard	Good	NO	l-1
Isoamvl Alcohol (3-Methyl 1-	Restricted	(СН3)2СНСН2СНОН	123-51-3	highly flammable; toxic	Fair	YES	O-2 Flam Cabinet
Isobutyl Alcohol	Restricted		78-83-1	highly flammable: toxic	Indefinite	NO	O-2 Flam Cabinet
Isopropyl Alcohol	Restricted	(СН3)2СНОН	67-63-0	highly flammable: toxic: may form	Fair	YES	O-2 Flam Cabinet
Isopropyl Ether (Diisopropyl	PROHIBITED	C6H14O	108-20-3	highly flammable; may form explosive	NA	NA	O-4 Flam Cabinet
Kerosene	Restricted	UNDEFINED	8008-20-6	highly flammable; toxic	Indefinite	NO	O-3 Flam Cabinet
Lead Dinitroresorcinate	PROHIBITED	PbC6H2(NO2)2(OH)2		explosive: probably carcinogenic to	NA	NA	NA
Lead Dioxide (Lead (IV)	PROHIBITED	PbO2	1309-60-0	toxic: probably carcinogenic to humans:	NA	NA	1-4
Lead Mononitroresorcinate	PROHIBITED	PbC6H3NO2(OH)2	51317-24-9	explosive; shock sensitive; probably	NA	NA	NA
Lead Nitrate	Restricted	Pb(NO3)2	10099-74-8	oxidizer; toxic; probably carcinogenic to	Indefinite	NO	I-3
Lead Tetraoxide. (Red Lead	Restricted	Pb304	1314-41-6	oxidizer: acutely toxic: probably	Indefinite	NO	1-4

Lead Trinitroresorcinate	PROHIBITED	PbC6H(NO2)3(OH)2	15245-44-0	explosive; probably carcinogenic to	NA	NA	I-3
Lithium (20 g limit)	DEMO ONLY	Li	7439-93-2	water-reactive; highly flammable solid;	Indefinite	NO	I-1 Flam Cabinet
Lithium Amide	Restricted	LiNH2	7782-89-0	water-reactive; toxic; flammable;	Fair	YES	I-3 Flam Cabinet
Lithium Bromide	Restricted	LiBr	7550-35-8	acutely toxic	Good	NO	I-1
	Restricted	Fe-Si·Li	70399-13-2	water-reactive; acutely toxic; highly	Fair	YES	I-1 Flam Cabinet
Lithium Nitrate	PROHIBITED	LiNO3	7790-69-4	oxidizer: shock sensitive	NA	NA	I-3
Lithium Nitride	PROHIBITED	Li3N	26134-62-3	highly flammable; powder is easily	NA	NA	I-5 Flam Cabinet
Lithium Peroxide	PROHIBITED	Li202	12031-80-0	oxidizer; toxic; explosive	NA	NA	1-6
Lithium Silicon	Restricted	Li∙Si	68848-64-6	water-and air-reactive; acutely toxic;	Fair	YES	I-1
	Restricted	Li2SO4·H2O	10102-25-7	toxic	Indefinite	NO	I-2
Magnesium (except Mg ribbon	PROHIBITED	Mg	7439-95-4	reacts with water to liberate hydrogen	NA	NA	I-1 Flam Cabinet
Magnesium (ribbon)	Restricted	Mg	7439-95-4	flammable solid; water-reactive	Indefinite	NO	I-1 Flam Cabinet
	DEMO ONLY	Mg	7439-95-4	water-reactive: flammable solid: strong	Indefinite	NO	I-1 Flam Cabinet
Magnesium Nitrate	Restricted	Mg(NO3)2·6H2O	13446-18-9	oxidizer: toxic	Good	NO	I-3
Magnesium Peroxide	PROHIBITED	MgO2	14452-57-4	strong oxidizer	NA	NA	1-6
Manganese (II) Nitrate	Restricted	Mn(NO3)2·6H2O	10377-66-9	strong oxidizer; toxic	Indefinite	NO	I-3
Manganese Carbonate	Restricted	MnCO3	598-62-9	toxic	Good	NO	I-4
Manganese Dioxide	Restricted	MnO2	1313-13-9	toxic	Indefinite	NO	1-6
	PROHIBITED	C6H8N6O18	15825-70-4	explosive; strong oxidizer	NA	NA	NA
	PROHIBITED	Hg	7439-97-6	corrosive; poison; severely and subtly	NA	NA	I-1
Mercury Compounds (e.g.,	PROHIBITED			poison; severely and subtly toxic	NA	NA	I-2
meta-Trinitrocresol (3-Methyl-	PROHIBITED	C7H5N3O7	602-99-3	explosive: strong oxidizer	NA	NA	NA
Methyl Acetylene	PROHIBITED	C3H4	74-99-7	highly flammable; may form explosive	NA	NA	O-3 Flam Cabinet
Methyl Alcohol (Methanol)	Restricted	СНЗОН	67-56-1	highly flammable; toxic	Good	NO	O-2 Flam Cabinet
Methyl Aluminum	Restricted	C3H9Al2Br3	12263-85-3	water-and air-reactive; toxic; dangerous	Fair	YES	NA
Methyl Aluminum	Restricted	C3H9Al2Cl3	12542-85-7	water-and air-reactive; toxic; dangerous	Fair	YES	NA
Methyl Chloride	Restricted	СНЗСІ	74-87-3	highly flammable; toxic	Indefinite	NO	O-4 Flam Cabinet
Methyl Cyclopentane	PROHIBITED	C6H12	96-37-7	highly flammable	NA	NA	O-3 Flam Cabinet
Methyl Isobutyl Ketone (4	DEMO ONLY	CH3COCH2CH(CH)	108-10-1	highly flammable; vapors may travel a	Fair to Poor	YES	O-4 Flam Cabinet
Methyl Isocyanate	PROHIBITED	СНЗИСО	624-83-9	water-reactive: highly flammable:	NA	NA	O-5 Flam Cabinet
Methyl MethacrylateMonomer	PROHIBITED	C5H8O2	80-62-6	may form explosive peroxides;	NA	NA	O-3 Flam Cabinet
Naphthalene (Moth Balls,	Restricted	C10H8	91-20-3	possibly carcinogenic to humans; highly	Poor	YES	0-3
n-Butyllithium	Restricted	C4H9Li	109-72-8	spontaneously flammable in air; toxic	Limited; refer to	YES	NA
Nessler's Reagent (Mercuric	PROHIBITED	Hg+KI+NaOH	7783-33-7		NA	NA	I-4
	Restricted	CH3(CH2)5CH3	142-82-5	highly flammable; toxic	Good	NO	O-3 Flam Cabinet
n-Hexane	Restricted	CH3(CH2)4CH3	110-54-3	highly flammable; toxic	Good	NO	O-3 Flam Cabinet
	Restricted	Ni(NO3)2·6H2O	13478-00-7	nickel compounds are carcinogenic to	Poor	YES	I-3
Nickel (II) Sulfate	Restricted	NiSO4·6H2O	10101-97-0	nickel compounds are carcinogenic to	Good	NO	I-2
Nicotine	PROHIBITED	C10H14N2	54-11-5	poison; acutely toxic	NA	NA	0-2

Nitric Acid	Restricted	HNO3	7697-37-2	acutely toxic; strong oxidizer; water-and	Fair; When this	YES	I-9 Acid Cabinet
				air-reactive	substance is stored		(Separate)
					for a long period, it		
					gradually destroys		
					the cap. Do not		
					interchange another		
					cap except one		
					designated by its		
					color code (red).		
					Contact Flinn for a		
					replacement cap if		
					needed. Shelf life of		
					nitric acid is good		
					except for this bottle		
					cap problem. Product		
					may turn yellow due		
					to the release of		
					nitrogen dioxide on		
					exposure to light.		
					This yellow color		
					does not affect the		
					product's usefulness		
					in the school		
					laboratory.		
Nitrohaman	Restricted	SCUENCE.	98-95-3		F-:-	Vac	O-3 Flam Cabinet
Nitrobenzene Nitrogen	Restricted	C6H5NO2	7727-37-9	possibly carcinogenic to humans; acutely may displace oxygen, which could cause	Indefinite	Yes NO	Gas Cylinder
Nitroglycerin	PROHIBITED	C3H5N3O9	55-63-0		NA	NA	I-3
Nitrosoguanidine	PROHIBITED	C2H5N5O3	70-25-7	explosive; highly flammable; water-	NA	NA NA	O-2 Flam Cabinet
Octyl Alcohol (Octanol or	Restricted	CH3(CH2)6CH2OH	111-87-5	flammable; toxic	Limited; refer to		O-2 Flam Cabinet
ortho-Dichlorobenzene (1, 2-	Restricted	C6H4Cl2	95-50-1	flammable: toxic	Fair to Poor	YES	0-3
ortho-Toluidine (e.g.,	PROHIBITED	C7H9N	95-53-4		NA	NA	0-2
Osmic Acid (Osmium	PROHIBITED	OsO4	20816-12-0		NA	NA	0-4
Oxalic Acid, Dihydrate	Restricted	H2C2O4·2H2O	6153-56-6	acutely toxic	Indefinite	NO	0-1
Oxvgen	Restricted	02	7782-44-7	strong oxidizer: fire and explosion	Indefinite	NO	Gas Cvlinder

para-Dichlorobenzene (1, 4-	Restricted	C6H4Cl2	106-46-7	possibly carcinogenic to humans:	Fair to Poor	YES	0-3
para-Nitrophenol (4-	PROHIBITED	NO2C6H4OH	100-02-7	poison: forms explosive mixtures	NA	NA	0-8
Pentaerythrite Tetranitrate	PROHIBITED	C5H8N4O12	78-11-5	explosive; strong oxidizer	NA	NA	NA
Pentane (100 mL limit)	DEMO ONLY	C5H12	109-66-0	highly flammable	Indefinite	NO	O-3 Flam Cabinet
Pentyl Alcohol (Amyl Alcohol	Restricted	CH3(CH2)4OH	71-41-0	highly flammable; toxic	Poor	YES	O-2 Flam Cabinet
Perchloric Acid	PROHIBITED	HClO4	7601-90-3	strong oxidizing agent; corrosive;	NA	NA	I-9 Acid Cabinet
Petroleum Ether (500 mL	Restricted	UNDEFINED	Unavailable	highly flammable; toxic	Indefinite	NO	O-3 Flam Cabinet
Phenol	PROHIBITED	C6H6O	108-95-2	combustible; corrosive; may be fatal if	NA	NA	0-8
Phenyl Thiourea	PROHIBITED	C7H8N2S	103-85-5	extremely toxic; poison; emits toxic	NA	NA	0-2
Phosphides (e.g., magnesium	PROHIBITED			poison: water-reactive	NA	NA	1-5
Phosphoric Acid	Restricted	H3PO4	7664-38-2	toxic; corrosive	Good	NO	I-9 Acid Cabinet
Phosphorus (yellow or white)	PROHIBITED	Р	7723-14-0	flammable solid; self-ignition possible;	NA	NA	I-10 Flam Cabinet
Phosphorus Halides and	PROHIBITED			water-reactive: corrosive: toxic	NA	NA	I-2
Phosphorus, Red	DEMO ONLY	Р	7723-14-0	water-reactive: flammable solid: can	Indefinite	NO	I-10 Flam Cabinet
Phthalic Acid (1, 2	Restricted	C6H4(COOH)2	88-99-3	combustible; toxic	Limited; refer to	YES	O-1 Acid Cabinet
Phthalic Anhydride	PROHIBITED	C8H4O3	85-44-9	explosive: water- reactive	NA	NA	0-1
Picramide	PROHIBITED	C6H4N4O6	489-98-5	explosive: strong oxidizing agent	NA	NA	1-3
Picrates and Picrvl	PROHIBITED			explosive	NA	NA	1-3
Picric Acid (2,4,6-	PROHIBITED	C6H3N3O7	88-89-1	extremely reactive; explosive when dry	NA	NA	0-1 Acid Cabinet
Polymethylene Polyphenyl	Restricted	(C8H5NO)n	9016-87-9	water reactive; toxic	Fair	YES	1-5
Polyvinyl Alcohol	Restricted	CH2CH(OH)	9002-89-5	combustible; toxic	Indefinite	NO	O-2 Flam Cabinet
Polyvinyl Nitrate (PVN or	PROHIBITED	(C2H3NO3)n		explosive: shock sensitive	NA	NA	NA
Potassium (1-container with	DEMO ONLY	К	7440-09-7	violently water-reactive; may form	Poor	YES	l-1
Potassium Amide	PROHIBITED	KNH2	17242-52-3	may form explosive peroxides	NA	NA	NA
Potassium Bromate	Restricted	KBrO3	7758-01-2	possibly carcinogenic to humans	Indefinite	NO	I-6
Potassium Chlorate (100 g	DEMO ONLY	KCIO3	3811-04-9	explosive: strong oxidizer	Indefinite	NO	I-6
Potassium Chromate	Restricted	K2CrO4	7789-00-6	chromium (VI) compounds are	Indefinite	NO	I-8
Potassium Cyanide	PROHIBITED	KCN	151-50-8	acutely toxic	NA	NA	I-7
Potassium Dichromate	Restricted	K2Cr2O7	7778-50-9	chromium (VI) compounds are	Indefinite	NO	I-8
Potassium	PROHIBITED	KC6H2N4O6	29267-75-2	explosive	NA	NA	NA
Potassium Ferricyanide (Red	Restricted	K3Fe(CN)6	13746-66-2	contact with acids liberates toxic gas	Fair	YES	I-7
Potassium Ferrocyanide	Restricted	K4Fe(CN)6·3H2O	14459-95-1	toxic; contact with acids liberates toxic	Fair to Poor	YES	1-7
Potassium Hydroxide (Potash	Restricted	кон	1310-58-3	corrosive; toxic	Fair	YES	I-4 Base Cabinet
Potassium Iodate	Restricted	KIO3	7758-05-6	oxidizer: toxic	Indefinite	NO	I-6
Potassium Nitrate	Restricted	KNO3	7757-79-1	strong oxidizer	Good	NO	I-3
Potassium Nitrite	PROHIBITED	KNO2	7758-09-0	strong oxidizer	NA	NA	I-3
Potassium Perchlorate	PROHIBITED	KClO4	7778-74-7	explosive	NA	NA	I-6
Potassium Periodate	PROHIBITED	KIO4	7790-21-8	strong oxidizer	NA	NA	I-6
Potassium Permanganate	Restricted	KMnO4	7722-64-7	strong oxidizer; explodes on sudden	Indefinite	NO	I-8
- otassiani i crinianganate	1.050110000	1.0.00	1	heating		1,10	

Potassium Peroxide	PROHIBITED	K2O2	17014-71-0	water-reactive: strong oxidizer	NA	NA	I-6
Potassium Persulfate	Restricted	K2S2O8	7727-21-1	strong oxidizer: toxic	Fair to poor:	YES	I-6
Potassium Sulfide	Restricted	K2S	1312-73-8	pyrophoric; spontaneously combustible;	Fair (3 Years)	YES	I-5
Potassium Superoxide	PROHIBITED	KO2	12030-88-5	water-reactive; strong oxidizer	NA	NA	1-4
Propane	Restricted	СН3СН2СН3	74-98-6	highly flammable; compressed gas	Fair	YES	Gas Cylinder
Propionic Acid	Restricted	C3H6O2	79-09-4	corrosive: flammable: toxic	Indefinite	NO	O-1 Flam Cabinet
Propyl Alcohol (n-Propanol or		C3H8O	71-23-8	highly flammable; toxic	Indefinite	NO	O-2 Flam Cabinet
Pyridine (Azine or	Restricted	C5H5N	110-86-1	highly flammable; toxic	Good	NO	O-2 Flam Cabinet
Pvrosulfurvl Chloride (Sulfur	Restricted	Cl205S2	7791-27-7	water- and air-reactive; corrosive; toxic	Fair	YES	I-1
RDX	PROHIBITED	C3H6N6O6	121-82-4	explosive	NA	NA	0-2
Silanes and Chlorosilanes	PROHIBITED			flammable; reactive; highly toxic	NA	NA	NA
Silicon Tetrachloride	PROHIBITED	SiCl4	10026-04-7	air- and water-reactive: corrosive	NA	NA	Gas Cylinder
Silver Acetylide	PROHIBITED	Ag2C2	13092-75-6	explosive; shock sensitive	NA	NA	NA
Silver Cyanate	PROHIBITED	AgOCN	3315-16-0	toxic	NA	NA	I-7
Silver Cvanide	PROHIBITED	AgCN	506-64-9	acutely toxic; may be fatal if inhaled.	NA	NA	I-7
Silver Dinitroresorcinate	PROHIBITED	Ag2C6H(NO3)2(OH)2		reactive: ignitable: shock sensitive	NA	NA	NA
Silver Fulminate	PROHIBITED	AgCNO	5610-59-3	explosive	NA	NA	NA
Silver Nitrate	Restricted	AgNO3	7761-88-8	strong oxidizer; corrosive; toxic	Indefinite	NO	I-3
Silver Nitride	PROHIBITED	Ag3N	20737-02-4	shock sensitive; explosive	NA	NA	1-5
Silver Oxalate	PROHIBITED	Ag2C2O4	533-51-7	shock sensitive	NA	NA	1-2
Silver Oxide (100 g limit)	DEMO ONLY	Ag2O	20667-12-3	strong oxidizer; contact with other	Indefinite	NO	I-4
Silver Sulfate	Restricted	Ag2SO4	10294-26-5	toxic	Indefinite	NO	I-2
Silver Tetrazene	PROHIBITED			shock sensitive	NA	NA	I-3
Sodium (100 g limit)	DEMO ONLY	Na	7440-23-5	violently water-reactive; strong reducing	Good	NO	I-1
Sodium Amide	PROHIBITED	NaNH2	7782-92-5	may form explosive peroxides; water-	NA	NA	I-3
Sodium Bisulfite	Restricted	NaHSO3	7631-90-5	strong reducing agent; corrosive; toxic	Fair to Poor	YES	I-2
Sodium Chlorate	PROHIBITED	NaClO3	7775-09-9	oxidizer; explosive	NA	NA	I-6
Sodium Chlorite	PROHIBITED	NaClO2	7758-19-2	oxidizer: explosive	NA	NA	I-6
Sodium Chromate	Restricted	Na2CrO4	7775-11-3	chromium (VI) compounds are	Fair	YES	I-8
Sodium Cobaltinitrite	Restricted	Na3Co(NO2)6	13600-98-1	cobalt and cobalt compounds are	Indefinite	NO	I-3
Sodium Cvanide	PROHIBITED	NaCN	143-33-9	acutely toxic	NA	NA	1-7
Sodium Dichromate	Restricted	Na2Cr2O7·2H2O	7789-12-0	chromium (VI) compounds are	Poor	YES	I-8
Sodium Dithionite (Sodium	PROHIBITED	Na2S2O4	7775-14-6	spontaneously combustible; water-	NA	NA	I-2
Sodium Fluoride	Restricted	NaF	7681-49-4	corrosive; poison	Indefinite	NO	1-2
Sodium Hydroxide (Lye)	Restricted	NaOH	1310-73-2	water-reactive; corrosive; toxic	Good	NO	I-4 Base Cabinet
Sodium Hypochlorite	Restricted	NaClO	7681-52-9	strong oxidizer; corrosive; toxic	Poor	YES	I-6
Sodium Iodate	Restricted	NaIO3	7681-55-2	strong oxidizer; toxic	Fair to Poor	YES	I-6
Sodium lodide	Restricted	Nal	7681-82-5	toxic	Fair to Poor	YES	I-2
Sodium Metabisulfite	Restricted	Na2S2O5	7681-57-4	strong reducing agent; corrosive; toxic	Poor	YES	I-2

Sodium Methylate	PROHIBITED	NaCH3O	124-41-4	spontaneously combustible: water-	NA	NA	NA
Sodium Nitrate	Restricted	NaNO3	7631-99-4	strong oxidizer: toxic	Indefinite	NO	I-3
Sodium Nitrite	Restricted	NaNO2	7632-00-0	strong oxidizer: poison	Indefinite	NO	I-3
Sodium Perborate	PROHIBITED	NaBO3	7632-04-4	air- and water- reactive; explosive	NA	NA	I-8
Sodium Perchlorate	PROHIBITED	NaClO4	7601-89-0	oxidizer: water-reactive; explosive	NA	NA	I-6
Sodium Permanganate	PROHIBITED	NaMnO4	10101-50-5	oxidizer: explosive	NA	NA	I-8
Sodium Peroxide	PROHIBITED	Na2O2	1313-60-6	oxidizer; water- reactive; toxic;	NA	NA	I-6
Sodium PhosphateTribasic	Restricted	Na3PO4·12H2O	10101-89-0	corrosive; toxic	Fair	YES	I-2
Sodium Potassium Allov	Restricted	K2Na	11135-81-2	water-reactive: in contact with water	Fair	YES	I-1
Sodium Sulfide Nonahydrate	Restricted	Na2S-9H2O	1313-84-4	explosive; flammable solid; strong	Fair	YES	I-5
Sodium Thiocyanate	Restricted	NaSCN	540-72-7	strong reducing agent; toxic	Poor	YES	I-7
Sodium Thiosulfate	Restricted	Na2S2O3·5H2O	10102-17-7	toxic	Poor	YES	I-2
Stannic Chloride	Restricted	SnCl4	7646-78-8	air- and water-reactive; corrosive; toxic	Poor	YES	I-2
Strontium Nitrate	Restricted	Sr(NO3)2	10042-76-9	strong oxidizer	Indefinite	NO	I-3
Strontium Perchlorate	PROHIBITED	SrCl2O8	13450-97-0	shock sensitive	NA	NA	I-6
Styrene Monomer	PROHIBITED	C8H8	100-42-5	highly flammable: may form explosive	NA	NA	O-3 Flam Cabinet
Sulfur Chloride (Sulfur	Restricted	Cl2S2	10025-67-9	water-reactive: corrosive: toxic	Fair	YES	I-2
Sulfur Pentafluoride	Restricted	S2F10	5714-22-7	water-reactive; poison	Fair	YES	Liquid: I-2, Gas: Gas
Sulfur Trioxide	PROHIBITED	SO3	7446-11-9	air- and water-reactive; corrosive;	NA	NA	NA
Sulfuric Acid (<10%)	Restricted	H2SO4	7664-93-9	strong oxidizer: severely corrosive:	Good	NO	I-9 Acid Cabinet
Sulfuric Acid (>10%) (2.5 L	Restricted	H2SO4	7664-93-9	strong oxidizer: severely corrosive:	Good	NO	I-9 Acid Cabinet
Sulfuryl Chloride (Sulfonyl	PROHIBITED	Cl202S	7791-25-5	air- and water-reactive; corrosive;	NA	NA	I-2
Sulfuryl Chloride Fluoride	PROHIBITED	CIFO2S	13637-84-8	poison; water-reactive; corrosive	NA	NA	I-2
Terpineol (Terpene Alcohol)	Restricted	C10H17OH	98-55-5	flammable: toxic	Indefinite	NO	NA
tert-Butvl Alcohol (t-Butanol	Restricted	(СН3)3СОН	75-65-0	highly flammable: irritating vapor and	Fair	YES	O-2 Flam Cabinet
tert-butyl Hypochlorite	PROHIBITED	C4H9ClO	507-40-4	spontaneously combustible; pyrophoric;	NA	NA	NA
Tetrafluoroethylene	PROHIBITED	C2F4	116-14-3	may form explosive peroxides; highly	NA	NA	O-4 Flam Cabinet
Tetrahydrofuran	PROHIBITED	C4H8O	109-99-9	highly flammable; oxidizes in air to form	NA	NA	O-4 Flam Cabinet
Tetrahydronaphthalene	PROHIBITED	C10H12	119-64-2	highly flammable; vapors may form	NA	NA	O-3 Flam Cabinet
Tetranitromethane	PROHIBITED	CN408	509-14-8	oxidizer; poison; possibly carcinogenic to	NA	NA	NA
Tetraselenium Tetranitride	PROHIBITED	Se4N4	12033-88-4	shock sensitive	NA	NA	NA
Tetrazene (tetrazolyl	PROHIBITED	C2H6N10·H2O	31330-63-9	shock sensitive; explosive	NA	NA	0-6
Tetrvl (2.4.6	PROHIBITED	C7H5N5O8	479-45-8	oxidizer: explosive	NA	NA	NA
Thallium Nitride	PROHIBITED	Tl3N	12033-67-9	shock sensitive	NA	NA	NA
Thermit (example: could be	PROHIBITED			flammable solid; dangerous fire risk;	NA	NA	I-4
Thermite Igniting Mixture	PROHIBITED			becomes a fire hazard if exposed to a	NA	NA	I-4
Thiocarbonyl Tetrachloride	PROHIBITED	CCl4S	594-42-3	poison; inhalation hazard	NA	NA	1-7
Thionyl Chloride	PROHIBITED	SOC12	7719-09-7	violently water-reactive; lachrymator;	NA	NA	I-6 Acid Cabinet
Thiophosphoryl Chloride	Restricted	Cl3SP	3982-91-0	air- and water- reactive; corrosive; toxic	Fair	YES	1-2
Tin	Restricted	Sn	7440-31-5	metal dust may present a fire hazard	Indefinite	NO	I-1

Titanium (Powder)	PROHIBITED	Ti	7440-32-6	spontaneously combustible; may ignite	NA	NA	I-1 Flam Cabinet
Titanium Tetrachloride	PROHIBITED	TiCl4	7550-45-0	water-reactive: corrosive: acutely toxic:	NA	NA	1-2
Toluene (Methyl Benzene)	Restricted	C7H8	108-88-3	highly flammable; toxic	Good	NO	O-3 Flam Cabinet
Toluene Diisocyanate (TDI)	Restricted	C9H6N2O2	584-84-9	water-reactive; acutely toxic	Poor (6 months)	YES	1-7
Trichloroethane-1,1,1	Restricted	C2H3Cl3	71-55-6	poison; flammable	Fair	YES	0-4
Trichloroethylene (Acetylene	Restricted	C2HCl3	79-01-6	carcinogenic to humans; poison;	Indefinite	NO	0-4
Triethanolamine	Restricted	C6H15NO3	102-71-6	toxic	Fair	YES	0-2
Triethyl Aluminum	PROHIBITED	(C2H5)3AL	97-93-8	spontaneously combustible; flammable	NA	NA	I-1
Triisobutyl Aluminum	PROHIBITED	(C4H9)3Al	100-99-2	spontaneously combustible; reacts	NA	NA	I-1
Trimethyl Aluminum	PROHIBITED	(CH3)3AL	75-24-1	spontaneously combustible: flammable	NA	NA	I-1
Tri-n-Butylaluminum	Restricted	C12H27Al	1116-70-7	air- and water- reactive; strong reducing	Fair	YES	I-1
Trinitroanisole	PROHIBITED	C7H5N3O7	606-35-9	explosive; strong oxidizer	NA	NA	0-4
Trinitrobenzene	PROHIBITED	C6H3N3O6	99-35-4	explosive: flammable solid: strong	NA	NA	NA
Trinitrobenzoic Acid	PROHIBITED	C7H3N3O8	129-66-8 or	explosive: highly flammable: strong	NA	NA	NA
Trinitronaphthalene (1,3,5-	PROHIBITED	C10H5N3O6	2243-94-9	explosive; strong oxidizer	NA	NA	NA
Trinitroresorcinol	PROHIBITED	C6H3N308	82-71-3	explosive; strong oxidizer	NA	NA	NA
Trinitrotoluene (TNT or 2.4.6		C7H5N3O6	118-96-7	explosive: strong oxidizer	NA	NA	NA
Trioctyl Aluminum	Restricted	(CH3(CH2)7)3Al	1070-00-4	water-reactive: acutely toxic: flammable	Poor (two years if	YES	NA
Triphenyltetrazolium	Restricted	C19H15N4Cl	298-96-4	toxic	Good	NO	0-9
Trisodium Phosphate (Sodium		Na3PO4	7601-54-9	toxic	Indefinite	NO	1-2
Tungsten	Restricted	w	7440-33-7	metal dust may present a fire hazard	Indefinite	NO	l-1
Turpentine	Restricted	C10H16	8006-64-2	highly flammable: toxic	Indefinite	NO	O-3 Flam Cabinet
Uranium and Uranium	PROHIBITED			toxic by inhalation or ingestion	NA	NA	I-1 Radioactive
Urea Nitrate	PROHIBITED	CH4N2O.HNO3	124-47-0	explosive; strong oxidizer	NA	NA	1-3
Vanadium Trichloride	Restricted	VCl3	7718-98-1	toxic: air- and water-reactive: corrosive	Fair	YES	1-6
Vinvl Acetate	PROHIBITED	C4H6O2	108-05-4	may form explosive peroxides; possibly	NA	NA	O-3 Flam Cabinet
Vinyl Acetylene	PROHIBITED	C4H4	689-97-4	may form explosive peroxides; reactive	NA	NA	Liquid: O-3 Flam
Vinvl Chloride	PROHIBITED	C2H3Cl	75-01-4	carcinogenic to humans: may form	NA	NA	O-4 Flam Cabinet
Vinyl Ethers (e.g., divinyl	PROHIBITED			may form explosive peroxides upon	NA	NA	O-4 Flam Cabinet
Vinvlidene Chloride (1,1-	PROHIBITED	C2H2Cl2	75-35-4	may form explosive peroxides	NA	NA	O-4 Flam Cabinet
Wright's Stain (Hg	DEMO ONLY	UNDEFINED	68988-92-1	contains mercury; poison; acutely toxic	Indefinite	NO	0-9
Xylene	Restricted	C8H10	1330-20-7	highly flammable; toxic by inhalation or	Good	NO	O-3 Flam Cabinet
Zinc (Powder)	Restricted	Zn	7440-66-6	strong reducing agent; water-reactive;	Indefinite	NO	l-1
Zinc Acetylide	Restricted			shock sensitive: water-reactive	Fair	YES	NA
Zinc Nitrate Hexahydrate	Restricted	Zn(NO3)2·6H2O	10196-18-6	strong oxidizer	Indefinite	NO	I-3
Zinc Peroxide	PROHIBITED	ZnO2	1314-22-3	oxidizer; used as an oxidant in	NA	NA	1-6
Zinc Phosphide	Restricted	Zn3P2	1314-84-7	strong reducing agent; water reactive;	Fair (3 Years)	YES	1-5
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