

Chemical Security Inventory

Date:	Department:
Manager:	
Building:	Room:

Chemical Of Interest	Synonym	CAS	Size	Units	No. Containers
1	Acetaldehyde	75-07-0			
2	Acetone cyanohydrin, stabilized	75-86-5			
3	Acetyl bromide	506-96-7			
4	Acetyl chloride	75-36-5			
5	Acetyl iodide	507-02-8			
6	Acetylene	[Ethyne] 74-86-2			
7	Acrolein	[2-Propenal] or Acrylaldehyde 107-02-8			
8	Acrylonitrile	[2-Propenenitrile] 107-13-1			
9	Acrylyl chloride	[2-Propenoyl chloride] 814-68-6			
10	Allyl alcohol	[2-Propen-1-ol] 107-18-6			
11	Allylamine	[2-Propen-1-amine] 107-11-9			
12	Allyltrichlorosilane, stabilized	107-37-9			
13	Aluminum (powder)	7429-90-5			
14	Aluminum bromide, anhydrous	7727-15-3			
15	Aluminum chloride, anhydrous	7446-70-0			
16	Aluminum phosphide	20859-73-8			
17	Ammonia (anhydrous)	7664-41-7			
18	Ammonia (conc. 20% or greater)	7664-41-7			
19	Ammonium nitrate, [with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance]	6484-52-2			
20	Ammonium nitrate, solid [nitrogen concentration of 23% nitrogen or greater]	6484-52-2			
21	Ammonium perchlorate	7790-98-9			
22	Ammonium picrate	131-74-8			
23	Amyltrichlorosilane	107-72-2			
24	Antimony pentafluoride	7783-70-2			
25	Arsenic trichloride	[Arsenous trichloride] 7784-34-1			
26	Arsine	7784-42-1			

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	Chemical Of Interest	Synonym	CAS	Size	Units	No. Containers
27	Barium azide		18810-58-7			
28	1,4-Bis(2-chloroethylthio)-n-butane		142868-93-7			
29	Bis(2-chloroethylthio)methane		63869-13-6			
30	Bis(2-chloroethylthiomethyl)ether		63918-90-1			
31	1,5-Bis(2-chloroethylthio)-n-pentane		142868-94-8			
32	1,3-Bis(2-chloroethylthio)-n-propane		63905-10-2			
33	Boron tribromide		10294-33-4			
34	Boron trichloride	[Borane, trichloro]	10294-34-5			
35	Boron trifluoride	[Borane, trifluoro]	7637-07-2			
36	Boron trifluoride compound with methyl ether (1:1)	[Boron, trifluoro [oxybis (methane)], T-4-]	353-42-4			
37	Bromine		7726-95-6			
38	Bromine chloride		13863-41-7			
39	Bromine pentafluoride		7789-30-2			
40	Bromine trifluoride		7787-71-5			
41	Bromotrifluorethylene	[Ethene, bromotrifluoro-]	598-73-2			
42	1,3-Butadiene		106-99-0			
43	Butane		106-97-8			
44	Butene		25167-67-3			
45	1-Butene		106-98-9			
46	2-Butene		107-01-7			
47	2-Butene-cis		590-18-1			
48	2-Butene-trans	[2-Butene, (E)]	624-64-6			
49	Butyltrichlorosilane		7521-80-4			
50	Calcium hydrosulfite	[Calcium dithionite]	15512-36-4			
51	Calcium phosphide		1305-99-3			
52	Carbon disulfide		75-15-0			
53	Carbon oxysulfide	[Carbon oxide sulfide (COS); carbonyl sulfide]	463-58-1			
54	Carbonyl fluoride		353-50-4			
55	Carbonyl sulfide		463-58-1			
56	Chlorine		7782-50-5			
57	Chlorine dioxide	[Chlorine oxide, (ClO ₂)]	10049-04-4			
58	Chlorine monoxide	[Chlorine oxide]	7791-21-1			
59	Chlorine pentafluoride		13637-63-3			
60	Chlorine trifluoride		7790-91-2			
61	Chloroacetyl chloride		79-04-9			
62	2-Chloroethylchloro-methylsulfide		2625-76-5			

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63	Chloroform	[Methane, trichloro-]	67-66-3			
64	Chloromethyl ether	[Methane, oxybis(chloro-)]	542-88-1			
65	Chloromethyl methyl ether	[Methane, chloromethoxy-]	107-30-2			
66	1-Chloropropylene	[1-Propene, 1-chloro-]	590-21-6			
67	2-Chloropropylene	[1-Propene, 2-chloro-]	557-98-2			
68	Chlorosarin	[o-Isopropyl methylphosphonochloridate]	1445-76-7			
69	Chlorosoman	[o-Pinacolyl methylphosphonochloridate]	7040-57-5			
70	Chlorosulfonic acid		7790-94-5			
71	Chromium oxychloride		14977-61-8			
72	Crotonaldehyde	[2-Butenal]	4170-30-3			
73	Crotonaldehyde, (E)-	[2-Butenal], (E)-]	123-73-9			
74	Cyanogen	[Ethanedinitrile]	460-19-5			
75	Cyanogen chloride		506-77-4			
76	Cyclohexylamine	[Cyclohexanamine]	108-91-8			
77	Cyclohexyltrichlorosilane		98-12-4			
78	Cyclopropane		75-19-4			
79	DF	Methyl phosphonyl difluoride	676-99-3			
80	Diazodinitrophenol		87-31-0			
81	Diborane		19287-45-7			
82	Dichlorosilane	[Silane, dichloro-]	4109-96-0			
83	N,N-(2-diethylamino)ethanethiol		100-38-9			
84	Diethyldichlorosilane		1719-53-5			
85	o,o-Diethyl S-[2-(diethylamino)ethyl] phosphorothiolate		78-53-5			
86	Diethyleneglycol dinitrate		693-21-0			
87	Diethyl methylphosphonite		15715-41-0			
88	N,N-Diethyl phosphoramidic dichloride		1498-54-0			
89	N,N-(2-diisopropylamino)ethanethiol	N,N-diisopropyl-(beta)-aminoethane thiol	5842-07-9			
90	Difluoroethane	[Ethane, 1,1-difluoro-]	75-37-6			
91	N,N-Diisopropyl phosphoramidic dichloride		23306-80-1			
92	1,1-Dimethylhydrazine	[Hydrazine, 1, 1-dimethyl-]	57-14-7			
93	Dimethylamine	[Methanamine, N-methyl-]	124-40-3			
94	N,N-(2-dimethylamino)ethanethiol		108-02-1			
95	Dimethyldichlorosilane	[Silane, dichlorodimethyl-]	75-78-5			

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96	N,N-Dimethyl phosphoramidic dichloride	[Dimethylphosphoramido-dichloridate]	677-43-0			
97	2,2-Dimethylpropane	[Propane, 2,2-dimethyl-]	463-82-1			
98	Dingu	[Dinitroglycoluril]	55510-04-8			
99	Dinitrogen tetroxide		10544-72-6			
100	Dinitrophenol		25550-58-7			
101	Dinitroresorcinol		519-44-8			
102	Diphenyldichlorosilane		80-10-4			
103	Dipicryl sulfide		2217-06-3			
104	Dipicrylamine [or] Hexyl	[Hexanitrodiphenylamine]	131-73-7			
105	N,N-(2-dipropylamino)ethanethiol		5842-06-8			
106	N,N-Dipropyl phosphoramidic dichloride		40881-98-9			
107	Dodecyltrichlorosilane		4484-72-4			
108	Epichlorohydrin	[Oxirane, (chloromethyl)-]	106-89-8			
109	Ethane		74-84-0			
110	Ethyl acetylene	[1-Butyne]	107-00-6			
111	Ethyl chloride	[Ethane, chloro-]	75-00-3			
112	Ethyl ether	[Ethane, 1,1-oxybis-]	60-29-7			
113	Ethyl mercaptan	[Ethanethiol]	75-08-1			
114	Ethyl nitrite	[Nitrous acid, ethyl ester]	109-95-5			
115	Ethyl phosphonyl difluoride		753-98-0			
116	Ethylamine	[Ethanamine]	75-04-7			
117	Ethyldiethanolamine		139-87-7			
118	Ethylene	[Ethene]	74-85-1			
119	Ethylene oxide	[Oxirane]	75-21-8			
120	Ethylenediamine	[1,2-Ethanediamine]	107-15-3			
121	Ethyleneimine	[Aziridine]	151-56-4			
122	Ethylphosphonothioic dichloride		993-43-1			
123	Ethyltrichlorosilane		115-21-9			
124	Fluorine		7782-41-4			
125	Fluorosulfonic acid		7789-21-1			
126	Formaldehyde (solution)		50-00-0			
127	Furan		110-00-9			
128	Germane		7782-65-2			
129	Germanium tetrafluoride		7783-58-6			
130	Guanyl nitrosaminoguanylidene hydrazine					

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	Chemical Of Interest	Synonym	CAS	Size	Units	No. Containers
131	Hexaethyl tetraphosphate and compressed gas mixtures		757-58-4			
132	Hexafluoroacetone		684-16-2			
133	Hexanitrostilbene		20062-22-0			
134	Hexolite	[Hexotol]	121-82-4			
135	Hexyltrichlorosilane		928-65-4			
136	HMX	[Cyclotetramethylene-tetranitramine]	2691-41-0			
137	HN1 (nitrogen mustard-1)	[Bis(2-chloroethyl)ethylamine]	538-07-8			
138	HN2 (nitrogen mustard-2)	[Bis(2-chloroethyl)methylamine]	51-75-2			
139	HN3 (nitrogen mustard-3)	[Tris(2-chloroethyl)amine]	555-77-1			
140	Hydrazine		302-01-2			
141	Hydrochloric acid (conc. 37% or greater)		7647-01-0			
142	Hydrocyanic acid		74-90-8			
143	Hydrofluoric acid (conc. 50% or greater)		7664-39-3			
144	Hydrogen		1333-74-0			
145	Hydrogen bromide (anhydrous)		10035-10-6			
146	Hydrogen chloride (anhydrous)		7647-01-0			
147	Hydrogen cyanide	[Hydrocyanic acid]	74-90-8			
148	Hydrogen fluoride (anhydrous)		7664-39-3			
149	Hydrogen iodide, anhydrous		10034-85-2			
150	Hydrogen peroxide (concentration of at least 35%)		7722-84-1			
151	Hydrogen selenide		7783-07-5			
152	Hydrogen sulfide		7783-06-4			
153	Iodine pentafluoride		7783-66-6			
154	Iron, pentacarbonyl-	[Iron carbonyl (Fe (CO) ₅), (TB5-11)-]	13463-40-6			
155	Isobutane	[Propane, 2-methyl]	75-28-5			
156	Isobutyronitrile	[Propanenitrile, 2-methyl-]	78-82-0			
157	Isopentane	[Butane, 2-methyl-]	78-78-4			
158	Isoprene	[1,3-Butadiene, 2-methyl-]	78-79-5			
159	Isopropyl chloride	[Propane, 2-chloro-]	75-29-6			
160	Isopropyl chloroformate	[Carbonochloridic acid, 1-methylethyl ester]	108-23-6			
161	Isopropylamine	[2-Propanamine]	75-31-0			

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162	Isopropylphosphonothioic dichloride		1498-60-8			
163	Isopropylphosphonyl difluoride		677-42-9			
164	Lead azide		13424-46-9			
165	Lead styphnate	[Lead trinitroresorcinate]	15245-44-0			
166	Lewisite 1	[2-Chlorovinylchloroarsine]	541-25-3			
167	Lewisite 2	[Bis(2-chlorovinyl)chloroarsine]	40334-69-8			
168	Lewisite 3	[Tris(2-chlorovinyl)arsine]	40334-70-1			
169	Lithium amide		7782-89-0			
170	Lithium nitride		26134-62-3			
171	Magnesium (powder)		7439-95-4			
172	Magnesium diamide		7803-54-5			
173	Magnesium phosphide		12057-74-8			
174	MDEA	[Methyldiethanolamine]	105-59-9			
175	Mercury fulminate		628-86-4			
176	Methacrylonitrile	[2-Propenenitrile, 2-methyl-]	126-98-7			
177	Methane		74-82-8			
178	2-Methyl-1-butene		563-46-2			
179	3-Methyl-1-butene		563-45-1			
180	Methyl chloride	[Methane, chloro-]	74-87-3			
181	Methyl chloroformate	[Carbonochloridic acid, methyl ester]	79-22-1			
182	Methyl ether	[Methane, oxybis-]	115-10-6			
183	Methyl formate	[Formic acid Methyl ester]	107-31-3			
184	Methyl hydrazine	[Hydrazine, methyl-]	60-34-4			
185	Methyl isocyanate	[Methane, isocyanato-]	624-83-9			
186	Methyl mercaptan	[Methanethiol]	74-93-1			
187	Methyl thiocyanate	[Thiocyanic acid, methyl ester]	556-64-9			
188	Methylamine	[Methanamine]	74-89-5			
189	Methylchlorosilane		993-00-0			
190	Methyldichlorosilane		75-54-7			
191	Methylphenyldichlorosilane		149-74-6			
192	Methylphosphonothioic dichloride		676-98-2			
193	2-Methylpropene	[1-Propene, 2-methyl-]	115-11-7			
194	Methyltrichlorosilane	[Silane, trichloromethyl-]	75-79-6			
195	Sulfur mustard (Mustard gas (H))	[Bis(2-chloroethyl)sulfide]	505-60-2			
196	O-Mustard (T)	[Bis(2-chloroethylthioethyl)ether]	63918-89-8			
197	Nickel Carbonyl		13463-39-3			
198	Nitric acid		7697-37-2			

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199	Nitric oxide	[Nitrogen oxide (NO)]	10102-43-9			
200	Nitrobenzene		98-95-3			
201	5-Nitrobenzotriazol		2338-12-7			
202	Nitrocellulose		9004-70-0			
203	Nitrogen mustard hydrochloride	[Bis(2-chloroethyl)methylamine hydrochloride]	55-86-7			
204	Nitrogen trioxide		10544-73-7			
205	Nitroglycerine		55-63-0			
206	Nitromannite	[Mannitol hexanitrate, wetted]	15825-70-4			
207	Nitromethane		75-52-5			
208	Nitrostarch		9056-38-6			
209	Nitrosyl chloride		2696-92-6			
210	Nitrotriazolone		932-64-9			
211	Nonyltrichlorosilane		5283-67-0			
212	Octadecyltrichlorosilane		112-04-9			
213	Octolite		57607-37-1			
214	Octonal		78413-87-3			
215	Octyltrichlorosilane		5283-66-9			
216	Oleum (Fuming Sulfuric acid)	[Sulfuric acid, mixture with sulfur trioxide]	8014-95-7			
217	Oxygen difluoride		7783-41-7			
218	1,3-Pentadiene		504-60-9			
219	Pentane		109-66-0			
220	1- Pentene		109-67-1			
221	2-Pentene, (E)-		646-04-8			
222	2-Pentene, (Z)-		627-20-3			
223	Pentolite		8066-33-9			
224	Peracetic acid	[Ethaneperoxic acid]	79-21-0			
225	Perchloromethylmercaptan	[Methanesulfenyl chloride, trichloro-]	594-42-3			
226	Perchloryl fluoride		7616-94-6			
227	PETN	[Pentaerythritol tetranitrate]	78-11-5			
228	Phenyltrichlorosilane		98-13-5			
229	Phosgene	[Carbonic dichloride] or [carbonyldichloride]	75-44-5			
230	Phosphine		7803-51-2			
231	Phosphorus		7723-14-0			
232	Phosphorus oxychloride	[Phosphoryl chloride]	10025-87-3			

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233	Phosphorus pentabromide		7789-69-7			
234	Phosphorus pentachloride		10026-13-8			
235	Phosphorus pentasulfide		1314-80-3			
236	Phosphorus trichloride		7719-12-2			
237	Picrite	[Nitroguanidine]	556-88-7			
238	Piperidine		110-89-4			
239	Potassium chlorate		3811-04-9			
240	Potassium cyanide		151-50-8			
241	Potassium nitrate		7757-79-1			
242	Potassium perchlorate		7778-74-7			
243	Potassium permanganate		7722-64-7			
244	Potassium phosphide		20770-41-6			
245	Propadiene	[1,2-Propadiene]	463-49-0			
246	Propane		74-98-6			
247	Propionitrile	[Propanenitrile]	107-12-0			
248	Propyl chloroformate	[Carbonchloridic acid, propylester]	109-61-5			
249	Propylene	[1-Propene]	115-07-1			
250	Propylene oxide	[Oxirane, methyl-]	75-56-9			
251	Propyleneimine	[Aziridine, 2-methyl-]	75-55-8			
252	Propylphosphonothioic dichloride		2524-01-8			
253	Propylphosphonyl difluoride		690-14-2			
254	Propyltrichlorosilane		141-57-1			
255	Propyne	[1-Propyne]	74-99-7			
256	QL	[o-Ethyl-o-2-diisopropylaminoethyl methylphosphonite]	57856-11-8			
257	RDX	[Cyclotrimethylenetrinitramine]	121-82-4			
258	RDX and HMX mixtures		121-82-4			
259	Sarin	[o-Isopropyl methylphosphonofluoridate]	107-44-8			
260	Selenium hexafluoride		7783-79-1			
261	Sesquimustard	[1,2-Bis(2-chloroethylthio)ethane]	3563-36-8			
262	Silane		7803-62-5			
263	Silicon tetrachloride		10026-04-7			
264	Silicon tetrafluoride		7783-61-1			
265	Sodium azide		26628-22-8			
266	Sodium chlorate		7775-09-9			
267	Sodium cyanide		143-33-9			
268	Sodium hydrosulfite	[Sodium dithionite]	7775-14-6			

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269	Sodium nitrate		7631-99-4			
270	Sodium phosphide		12058-85-4			
271	Soman	[o-Pinacolyl methylphosphonofluoridate]	96-64-0			
272	Stibine		7803-52-3			
273	Strontium phosphide		12504-16-4			
274	Sulfur dioxide (anhydrous)		7446-09-5			
275	Sulfur tetrafluoride	[Sulfur fluoride (SF ₄), (T-4)-]	7783-60-0			
276	Sulfur trioxide		7446-11-9			
277	Sulfuryl chloride		7791-25-5			
278	Tabun	[o-Ethyl-N,N-dimethylphosphoramido-cyanidate]	77-81-6			
279	Tellurium hexafluoride		7783-80-4			
280	Tetrafluoroethylene	[Ethene, tetrafluoro-]	116-14-3			
281	Tetramethyllead	[Plumbane, tetramethyl-]	75-74-1			
282	Tetramethylsilane	[Silane, tetramethyl-]	75-76-3			
283	Tetranitroaniline		53014-37-2			
284	Tetranitromethane	[Methane, tetranitro-]	509-14-8			
285	Tetrazene	[Guanyl nitrosaminoguanyltetrazene]	109-27-3			
286	1H-Tetrazole		288-94-8			
287	Thiodiglycol	[Bis(2-hydroxyethyl)sulfide]	111-48-8			
288	Thionyl chloride		7719-09-7			
289	Titanium tetrachloride	[Titanium chloride (TiCl ₄) (T-4)-]	7550-45-0			
290	TNT	[Trinitrotoluene]	118-96-7			
291	Torpex	[Hexotonal]	67713-16-0			
292	Trichlorosilane	[Silane, trichloro-]	10025-78-2			
293	Triethanolamine		102-71-6			
294	Triethanolamine hydrochloride		637-39-8			
295	Triethyl phosphite		122-52-1			
296	Trifluoroacetyl chloride		354-32-5			
297	Trifluorochloroethylene	[Ethene, chlorotrifluoro]	79-38-9			
298	Trimethylamine	[Methanamine, N,N-dimethyl-]	75-50-3			
299	Trimethylchlorosilane	[Silane, chlorotrimethyl-]	75-77-4			
300	Trimethyl phosphite		121-45-9			
301	Trinitroaniline		26952-42-1			
302	Trinitroanisole		606-35-9			
303	Trinitrobenzene		99-35-4			

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304	Trinitrobenzenesulfonic acid		2508-19-2			
305	Trinitrobenzoic acid		129-66-8			
306	Trinitrochlorobenzene		88-88-0			
307	Trinitrofluorenone		129-79-3			
308	Trinitro-meta-cresol		602-99-3			
309	Trinitronaphthalene		55810-17-8			
310	Trinitrophenetole		4732-14-3			
311	Trinitrophenol		88-89-1			
312	Trinitroresorcinol		82-71-3			
313	Tritonal		54413-15-9			
314	Tungsten hexafluoride		7783-82-6			
315	Vinyl acetate monomer	[Acetic acid ethenyl ester]	108-05-4			
316	Vinyl acetylene	[1-Buten-3-yne]	689-97-4			
317	Vinyl chloride	[Ethene, chloro-]	75-01-4			
318	Vinyl ethyl ether	[Ethene, ethoxy-]	109-92-2			
319	Vinyl fluoride	[Ethene, fluoro-]	75-02-5			
320	Vinyl methyl ether	[Ethene, methoxy-]	107-25-5			
321	Vinylidene chloride	[Ethene, 1,1-dichloro-]	75-35-4			
322	Vinylidene fluoride	[Ethene, 1,1-difluoro-]	75-38-7			
323	Vinyltrichlorosilane		75-94-5			
324	VX	[o-Ethyl-S-2-diisopropylaminoethyl methyl phosphonothiolate]	50782-69-9			
325	Zinc hydrosulfite	[Zinc dithionite]	7779-86-4			

Chemical Security Inventory

Cell: E6

Comment: Enter the size of the container - 1 (ml), 2.5 (liters), 500 (mg). All containers are counted as full.

Cell: F6

Comment: Record the units - mg, liters, gallons. This will be a drop down on the on-line inventory.

Cell: G6

Comment: Record the number of containers of this material. All original containers must be counted. All mixtures must be counted if this chemical is present at 1% or greater. Do not count beakers or other process equipment containing this material.