

Appendix A to Part 74– Chemicals of Interest ¹⁰⁴						
Chemical of Interest (COI)	Chemical Abstracts Service (CAS) #	Release		Security Issue		
		Minimum Concentration (%)	Screening Threshold Quantity (in pounds)	Release – Toxic	Release – Flammables	Release – Explosives
Acetaldehyde	75-07-0	1.00	10,000		X	
Acetylene	74-86-2	1.00	10,000		X	
Acrolein	107-02-8	1.00	5,000	X		
Acrylonitrile	107-13-1	1.00	10,000		X	
Acryloyl chloride	814-68-6	1.00	10,000		X	
Allyl alcohol	107-18-6	1.00	15,000	X		
Allylamine	107-11-9	1.00	10,000		X	
Ammonia (anhydrous)	7664-41-7	1.00	10,000	X		
Ammonia (aqueous)	7664-41-7	20.00	20,000	X		
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	ACG	5,000			X
Ammonium perchlorate	7790-98-9	ACG	5,000			X
Ammonium picrate	131-74-8	ACG	5,000			X
Arsenic trichloride	7784-34-1	1.00	15,000	X		
Arsine	7784-42-1	1.00	1,000	X		
Barium azide	18810-58-7	ACG	5,000			X
Benzotriazole, 5-nitro-	2338-12-7	ACG	5,000			X
Boron trichloride	10294-34-5	1.00	5,000	X		
Boron trifluoride	7637-07-2	1.00	5,000	X		
Boron trifluoride compound with methyl ether	353-42-4	1.00	15,000	X		

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Bromine	7726-95-6	1.00	10,000	X		
Bromotrifluoroethylene	598-73-2	1.00	10,000		X	
Butadiene-1,3	106-99-0	1.00	10,000		X	
Butane	106-97-8	1.00	10,000		X	
Butene	25167-67-3	1.00	10,000		X	
Butene-1	106-98-9	1.00	10,000		X	
Butene-2	107-01-7	1.00	10,000		X	
2-Butene-cis	590-18-1	1.00	10,000		X	
2-Butene-trans	624-64-6	1.00	10,000		X	
Carbon disulfide	75-15-0	1.00	20,000	X		
Carbon oxysulfide	463-58-1	1.00	10,000		X	
Chlorine	7782-50-5	1.00	2,500	X		
Chlorine dioxide	10049-04-4	1.00	1,000	X		
Chlorine monoxide	7791-21-1	1.00	10,000		X	
Chloroform	67-66-3	1.00	20,000	X		
Chloromethyl ether	542-88-1	1.00	1,000	X		
Chloromethyl methyl ether	107-30-2	1.00	5,000	X		
Crotonaldehyde	4170-30-3	1.00	10,000		X	
Crotonaldehyde, (E)-	123-73-9	1.00	10,000		X	
Cyanogen	460-19-5	1.00	10,000		X	
Cyanogen chloride	506-77-4	1.00	10,000	X		

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Cyclohexylamine	108-91-8	1.00	15,000	X		
Cyclopropane	75-19-4	1.00	10,000		X	
Diazodinitrophenol	87-31-0	ACG	5,000			X
Diborane	19287-45-7	1.00	2,500	X		
Dichlorosilane	4109-96-0	1.00	10,000		X	
Diethyleneglycol dinitrate	693-21-0	ACG	5,000			X
Difluoroethane	75-37-6	1.00	10,000		X	
1,1-Dimethylhydrazine	57-14-7	1.00	10,000		X	
Dimethylamine	124-40-3	1.00	10,000		X	
Dimethyldichlorosilane	75-78-5	1.00	10,000		X	
Dingu	55510-04-8	ACG	5,000			X
Dinitrophenol	25550-58-7	ACG	5,000			X
Dinitroresorcinol	519-44-8	ACG	5,000			X
Dipicryl sulfide	2217-06-3	ACG	5,000			X
Dipicrylamine	131-73-7	ACG	5,000			X
Epichlorohydrin	106-89-8	1.00	20,000	X		
Ethane	74-84-0	1.00	10,000		X	
Ethyl acetylene	107-00-6	1.00	10,000		X	
Ethyl chloride	75-00-3	1.00	10,000		X	
Ethyl ether	60-29-7	1.00	10,000		X	
Ethyl mercaptan	75-08-1	1.00	10,000		X	
Ethyl nitrite	109-95-5	1.00	10,000		X	

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Ethylamine	75-04-7	1.00	10,000		X	
Ethylene	74-85-1	1.00	10,000		X	
Ethylene oxide	75-21-8	1.00	10,000		X	
Ethylenediamine	107-15-3	1.00	20,000	X		
Ethyleneimine	151-56-4	1.00	10,000		X	
Fluorine	7782-41-4	1.00	1,000	X		
Formaldehyde (solution)	50-00-0	1.00	15,000	X		
Furan	110-00-9	1.00	10,000		X	
Hexanitrostilbene	20062-22-0	ACG	5,000			X
Hexolite	121-82-4	ACG	5,000			X
HMX	2691-41-0	ACG	5,000			X
Hydrazine	302-01-2	1.00	10,000		X	
Hydrochloric acid	7647-01-0	37.00	15,000	X		
Hydrocyanic acid	74-90-8	1.00	2,500	X		
Hydrofluoric acid	7664-39-3	50.00	1,000	X		
Hydrogen	1333-74-0	1.00	10,000		X	
Hydrogen chloride (anhydrous)	7647-01-0	1.00	5,000	X		
Hydrogen fluoride (anhydrous)	7664-39-3	1.00	1,000	X		
Hydrogen selenide	7783-07-5	1.00	10,000		X	
Hydrogen sulfide	7783-06-4	1.00	10,000	X		
Iron, pentacarbonyl-	13463-40-6	1.00	10,000		X	
Isobutane	75-28-5	1.00	10,000		X	

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Isobutene	115-11-7	1.00	10,000		X	
Isobutyronitrile	78-82-0	1.00	20,000	X		
Isopentane	78-78-4	1.00	10,000		X	
Isopentene	563-45-1	1.00	10,000		X	
Isoprene	78-79-5	1.00	10,000		X	
Isopropenyl chloride	557-98-2	1.00	10,000		X	
Isopropyl chloride	75-29-6	1.00	10,000		X	
Isopropyl chloroformate	108-23-6	1.00	15,000	X		
Isopropylamine	75-31-0	1.00	10,000		X	
Lead azide	13424-46-9	ACG	5,000			X
Lead styphnate	15245-44-0	ACG	5,000			X
Mercury fulminate	628-86-4	ACG	5,000			X
Methacrylonitrile		1.00	10,000	X		
Methane	74-82-8	1.00	10,000		X	
2-Methyl-1-butene	563-46-2	1.00	10,000		X	
Methyl chloride	74-87-3	1.00	10,000		X	
Methyl chloroformate	79-22-1	1.00	10,000		X	
Methyl ether	115-10-6	1.00	10,000		X	
Methyl formate	107-31-3	1.00	10,000		X	
Methyl hydrazine	60-34-4	1.00	15,000	X		
Methyl isocyanate	624-83-9	1.00	10,000	X		
Methyl mercaptan	74-93-1	1.00	10,000		X	

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Methyl thiocyanate	556-64-9	1.00	20,000	X		
Methylamine	74-89-5	1.00	10,000		X	
Methyltrichlorosilane	75-79-6	1.00	10,000		X	
Neopentane	463-82-1	1.00	10,000		X	
Nickel Carbonyl	13463-39-3	1.00	10,000		X	
Nitric acid	7697-37-2	80.00	15,000	X		
Nitric oxide	10102-43-9	1.00	10,000	X		
Nitrocellulose	9004-70-0	ACG	5,000			X
Nitroglycerine	55-63-0	ACG	5,000			X
Nitromannite	15825-70-4	ACG	5,000			X
Nitrostarch	9056-38-6	ACG	5,000			X
Nitrotriazolone	932-64-9	ACG	5,000			X
Octolite	57607-37-1	ACG	5,000			X
Octonal	78413-87-3	ACG	5,000			X
Oleum	8014-95-7	1.00	10,000	X		
1,3-Pentadiene	504-60-9	1.00	10,000		X	
Pentane	109-66-0	1.00	10,000		X	
1-Pentene	109-67-1	1.00	10,000		X	
2-Pentene, (E)-	646-04-8	1.00	10,000		X	
2-Pentene, (Z)-	627-20-3	1.00	10,000		X	
Pentolite	8066-33-9	ACG	5,000			X
Peracetic acid	79-21-0	1.00	10,000		X	

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Perchloromethylmercaptan	594-42-3	1.00	10,000	X		
PETN	78-11-5	ACG	5,000			X
Phosgene	75-44-5	1.00	500	X		
Phosphine	7803-51-2	1.00	10,000		X	
Phosphorus oxychloride	10025-87-3	1.00	5,000	X		
Phosphorus trichloride	7719-12-2	1.00	15,000	X		
Picrite	556-88-7	ACG	5,000			X
Piperidine	110-89-4	1.00	10,000		X	
Propadiene	463-49-0	1.00	10,000		X	
Propane	74-98-6	87.50	60,000		X	
Propenyl chloride	590-21-6	1.00	10,000		X	
Propionitrile	107-12-0	1.00	10,000	X		
Propyl chloroformate	109-61-5	1.00	10,000		X	
Propylene	115-07-1	1.00	10,000		X	
Propylene oxide	75-56-9	1.00	10,000		X	
Propyleneimine	75-55-8	1.00	10,000	X		
Propyne	74-99-7	1.00	10,000		X	
RDX	121-82-4	ACG	5,000			X
RDX and HMX mixtures	121-82-4	ACG	5,000			X
Silane	7803-62-5	1.00	10,000		X	
Sulfur dioxide (anhydrous)	7446-09-5	1.00	5,000	X		
Sulfur tetrafluoride	7783-60-0	1.00	2,500	X		

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Sulfur trioxide	7446-11-9	1.00	10,000	X		
Tetrafluoroethylene	116-14-3	1.00	10,000		X	
Tetramethyllead	75-74-1	1.00	10,000	X		
Tetramethylsilane	75-76-3	1.00	10,000		X	
Tetranitroaniline	53014-37-2	ACG	5,000			X
Tetranitromethane	509-14-8	1.00	10,000		X	
Tetrazene	109-27-3	ACG	5,000			X
1H-Tetrazole	288-94-8	ACG	5,000			X
Titanium tetrachloride	7550-45-0	1.00	2,500	X		
TNT	118-96-7	ACG	5,000			X
Torpex	67713-16-0	ACG	5,000			X
Trichlorosilane	10025-78-2	1.00	10,000		X	
Trifluorochloroethylene	79-38-9	1.00	10,000		X	
Trimethylamine	75-50-3	1.00	10,000		X	
Trimethylchlorosilane	75-77-4	1.00	10,000		X	
Trinitroaniline	26952-42-1	ACG	5,000			X
Trinitroanisole	606-35-9	ACG	5,000			X
Trinitrobenzene	99-35-4	ACG	5,000			X
Trinitrobenzenesulfonic acid	2508-19-2	ACG	5,000			X
Trinitrobenzoic acid	129-66-8	ACG	5,000			X
Trinitrochlorobenzene	88-88-0	ACG	5,000			X
Trinitrofluorenone	129-79-3	ACG	5,000			X

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Trinitro-meta-cresol	602-99-3	ACG	5,000			X
Trinitronaphthalene	55810-17-8	ACG	5,000			X
Trinitrophenetole	4732-14-3	ACG	5,000			X
Trinitrophenol	88-89-1	ACG	5,000			X
Trinitroresorcinol	82-71-3	ACG	5,000			X
Tritonal	54413-15-9	ACG	5,000			X
Vinyl acetate monomer or [Acetic acid ethenyl ester]	108-05-4	1.00	10,000		X	
Vinylacetylene or [1-Buten-3-yne]	689-97-4	1.00	10,000		X	
Vinyl chloride or [Ethene, chloro-]	75-01-4	1.00	10,000		X	
Vinyl ethyl ether or [Ethene, ethoxy-]	109-92-2	1.00	10,000		X	
Vinyl fluoride or [Ethene, fluoro-]	75-02-5	1.00	10,000		X	
Vinyl methyl ether or [Ethene, methoxy-]	107-25-5	1.00	10,000		X	
Vinylidene chloride or [Ethene, 1,1-dichloro-]	75-35-4	1.00	10,000		X	
Vinylidene fluoride or [Ethene, 1,1-difluoro-]	75-38-7	1.00	10,000		X	

PART 91—GENERAL OPERATING AND FLIGHT RULES

■ 5. The authority citation for part 91 continues to read as follows:

Authority: 49 U.S.C. 106(f), 40101, 40103, 40105, 40113, 40120, 44101, 44111, 44701, 44704, 44709, 44711, 44712, 44715, 44716, 44717, 44722, 44740, 46306, 46315, 46316, 46504, 46506–46507, 47122, 47508, 47528–47531, 47534; Pub. L. 112–95, 126 Stat. 11; Pub. L. 114–190, 130 Stat. 615 (49 U.S.C. 44703 note); Sec. 828 of Pub. L. 118–63, 138

Stat. 1330 (49 U.S.C. 44703 note); articles 12 and 29 of the Convention on International Civil Aviation (61 Stat. 1180), (126 Stat. 11).

■ 6. Amend part 91 by adding § 91.134 to read as follows:

§ 91.134 Unmanned aircraft flight restriction.

No person may operate an unmanned aircraft within an unmanned aircraft flight restriction, established in accordance with part 74 of this chapter, contrary to the restrictions imposed

unless permitted pursuant to part 74, subpart G, as appropriate.

PART 107—SMALL UNMANNED AIRCRAFT SYSTEMS

■ 7. The authority citation for part 107 continues to read as follows:

Authority: 49 U.S.C. 106(f), 40101 note, 40103(b), 44701(a)(5), 46105(c), 46110, 44807.

■ 8. Revise § 107.45 to read as follows: