

2007 CBC Table 307.1(1)
Maximum Allowable Quantity Table for Storage In Laboratory Buildings

MATERIAL	Fire Protection Method	Solid-lbs.(Cubic Feet)					Liquid Gallons (Pounds)					Gas (Cu. Ft.)				
		Floor Location					Floor Location					Floor Location				
		Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third
Combustible Liquid																
II	Base(No Cabinet or Sprinkler)	N/A					0	0	120	90	60	N/A				
	Sprinklered (No Cabinet)						120	180	240	180	120					
	Cabinet (No Sprinkler)						0	0	240	180	120					
	Cabinet+Sprinklered						240	360	480	360	240					
III-A	Base(No Cabinet or Sprinkler)	N/A					0	0	330	247.5	165	N/A				
	Sprinklered (No Cabinet)						330	495	660	495	330					
	Cabinet (No Sprinkler)						0	0	660	495	330					
	Cabinet+Sprinklered						660	990	1,320	990	660					
III-B	Base(No Cabinet or Sprinkler)	N/A					0	0	13,200	9900	6600	N/A				
	Sprinklered (No Cabinet)						N.L.	N.L.	N.L.	N.L.	N.L.					
	Cabinet (No Sprinkler)						0	0	26400	19800	13200					
	Cabinet+Sprinklered						N.L.	N.L.	N.L.	N.L.	N.L.					
Combustible Fiber																
Loose	Base(No Cabinet or Sprinkler)	(50)	(75)	(100)	(75)	(50)	N/A					N/A				
	Sprinklered (No Cabinet)	(50)	(75)	(100)	(75)	(50)										
	Cabinet (No Sprinkler)	N/A														
	Cabinet+Sprinklered															
Baled	Base(No Cabinet or Sprinkler)	(500)	(750)	(1000)	(750)	(500)	N/A					N/A				
	Sprinklered (No Cabinet)	(500)	(750)	(1000)	(750)	(500)										
	Cabinet (No Sprinkler)	N/A														
	Cabinet+Sprinklered															
Cryogenic																
Flammable	Base(No Cabinet or Sprinkler)	N/A					22.5	33.75	45	33.75	22.5	N/A				
	Sprinklered (No Cabinet)						45	67.5	90	67.5	45					
	Cabinet (No Sprinkler)						N/A									
	Cabinet+Sprinklered															
Oxidizing	Base(No Cabinet or Sprinkler)	N/A					22.5	33.75	45	33.75	22.5	N/A				
	Sprinklered (No Cabinet)						45	67.5	90	67.5	45					
	Cabinet (No Sprinkler)						N/A									
	Cabinet+Sprinklered															

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		Floor Location					Floor Location					Floor Location				
		Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third
Explosives																
Divisions 1.1; 1.2; 1.5	Base(No Cabinet or Sprinkler)	0	0	0	0	0	0	0	0	0	0	N/A				
	Sprinklered (No Cabinet)	0.50	0.75	1	0.75	0.50	(0.50)	(0.75)	(1)	(0.75)	(0.50)					
	Cabinet (No Sprinkler)	0	0	0	0	0	0	0	0	0	0					
	Cabinet+Sprinklered	1.00	1.50	2	1.50	1.00	(1.00)	(1.50)	(2)	(1.50)	(1.00)					
Division 1.3	Base(No Cabinet or Sprinkler)	0	0	0	0	0	0	0	0	0	0	N/A				
	Sprinklered (No Cabinet)	2.50	3.75	5	3.75	2.50	(2.50)	(3.75)	(5)	(3.75)	(2.50)					
	Cabinet (No Sprinkler)	0	0	0	0	0	0	0	0	0	0					
	Cabinet+Sprinklered	5.00	7.50	10	7.50	5.00	(5.00)	(7.50)	(10)	(7.50)	(5.00)					
Division 1.4	Base(No Cabinet or Sprinkler)	0	0	0	0	0	0	0	0	0	0	N/A				
	Sprinklered (No Cabinet)	0.50	0.75	1	0.75	0.50	(25.00)	(37.50)	(50)	(37.50)	(25.00)					
	Cabinet (No Sprinkler)	0	0	0	0	0	0	0	0	0	0					
	Cabinet+Sprinklered	1.00	1.50	2	1.50	1.00	(50.00)	(75.00)	(100)	(75.00)	(50.00)					
Division 1.4G	Base(No Cabinet or Sprinkler)	0	0	0	0	0	N/A					N/A				
	Sprinklered (No Cabinet)	0.50	0.75	1	0.75	0.50										
	Cabinet (No Sprinkler)	0	0	0	0	0										
	Cabinet+Sprinklered	1.00	1.50	2	1.50	1.00										
Division 1.6	Base(No Cabinet or Sprinkler)	0	0	0	0	0	N/A					N/A				
	Sprinklered (No Cabinet)	0.50	0.75	1	0.75	0.50										
	Cabinet (No Sprinkler)	0	0	0	0	0										
	Cabinet+Sprinklered	2.00	3.00	4	3.00	2.00										

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		Floor Location					Floor Location					Floor Location				
		Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third
Flammable																
Solid	Base(No Cabinet or Sprinkler)	62.5	93.75	125	93.75	62.5	N/A					N/A				
	Sprinklered (No Cabinet)	125	187.5	250	187.5	125										
	Cabinet (No Sprinkler)	125	187.5	250	187.5	125										
	Cabinet+Sprinklered	250	375	500	375	250										
Gas	Base(No Cabinet or Sprinkler)	N/A					15	22.5	30	22.5	15	500	750	1000	750	500
	Sprinklered (No Cabinet)						30	45	60	45	30	1000	1500	2000	1500	1000
	Cabinet (No Sprinkler)						30	45	60	45	30	1000	1500	2000	1500	1000
	Cabinet+Sprinklered						60	90	120	90	60	2000	3000	4000	3000	2000
Liquid 1A	Base(No Cabinet or Sprinkler)	N/A					0	0	30	22.5	15	N/A				
	Sprinklered (No Cabinet)						10	15	60	45	30					
	Cabinet (No Sprinkler)						0	0	60	45	30					
	Cabinet+Sprinklered						10	15	120	90	60					
Liquids 1B + 1C	Base(No Cabinet or Sprinkler)	N/A					0	0	120	90	60	N/A				
	Sprinklered (No Cabinet)						30	45	240	180	120					
	Cabinet (No Sprinkler)						0	0	240	180	120					
	Cabinet+Sprinklered						30	45	480	360	240					
Liquid Combination (1A+1B+1C)	Base(No Cabinet or Sprinkler)	N/A					0	0	120	90	60	N/A				
	Sprinklered (No Cabinet)						30	45	240	180	120					
	Cabinet (No Sprinkler)						0	0	240	180	120					
	Cabinet+Sprinklered						30	45	480	360	240					

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		Floor Location					Floor Location					Floor Location				
		Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third
Organic Peroxide																
Unclassified & Detonable	Base(No Cabinet or Sprinkler)	0	0	0	0	0	0	0	0	0	0	N/A				
	Sprinklered (No Cabinet)	0.5	0.75	1	0.75	0.5	(0.50)	(0.75)	(1)	(0.75)	(0.50)					
	Cabinet (No Sprinkler)	0	0	0	0	0	0	0	0	0	0					
	Cabinet+Sprinklered	1	1.5	2	1.5	1	(1.00)	(1.50)	(2)	(1.50)	(1.00)					
I	Base(No Cabinet or Sprinkler)	2.5	3.75	5	3.75	2.5	(2.50)	(3.75)	(5)	(3.75)	(2.50)	N/A				
	Sprinklered (No Cabinet)	5	7.5	10	7.5	5	(5.00)	(7.50)	(10)	(7.50)	(5.00)					
	Cabinet (No Sprinkler)	5	7.5	10	7.5	5	(5.00)	(7.50)	(10)	(7.50)	(5.00)					
	Cabinet+Sprinklered	10	15	20	15	10	(10.00)	(15.00)	(20)	(15.00)	(10.00)					
II	Base(No Cabinet or Sprinkler)	25	37.5	50	37.5	25	(25.00)	(37.50)	(50)	(37.50)	(25.00)	N/A				
	Sprinklered (No Cabinet)	50	75	100	75	50	(50.00)	(75.00)	(100)	(75.00)	(50.00)					
	Cabinet (No Sprinkler)	50	75	100	75	50	(50.00)	(75.00)	(100)	(75.00)	(50.00)					
	Cabinet+Sprinklered	100	150	200	150	100	(100.00)	(150.00)	(200)	(150.00)	(100.00)					
III	Base(No Cabinet or Sprinkler)	62.5	93.75	125	93.75	62.5	(62.50)	(93.75)	(125)	(93.75)	(62.50)	N/A				
	Sprinklered (No Cabinet)	125	187.5	250	187.5	125	(125.00)	(187.50)	(250)	(187.50)	(125.00)					
	Cabinet (No Sprinkler)	125	187.5	250	187.5	125	(125.00)	(187.50)	(250)	(187.50)	(125.00)					
	Cabinet+Sprinklered	250	375	500	375	250	(250.00)	(375.00)	(500)	(375.00)	(250.00)					
IV	Base(No Cabinet or Sprinkler)	N.L.					N.L.					N/A				
	Sprinklered (No Cabinet)															
	Cabinet (No Sprinkler)															
	Cabinet+Sprinklered															
V	Base(No Cabinet or Sprinkler)	N.L.					N.L.					N/A				
	Sprinklered (No Cabinet)															
	Cabinet (No Sprinkler)															
	Cabinet+Sprinklered															

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		Floor Location					Floor Location					Floor Location				
		Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third
Oxidizer																
4	Base(No Cabinet or Sprinkler)	0	0	0	0	0	0	0	0	0	0	N/A				
	Sprinklered (No Cabinet)	0.5	0.75	1	0.75	0.5	(0.50)	(0.75)	(1)	(0.75)	(0.50)					
	Cabinet (No Sprinkler)	0	0	0	0	0	0	0	0	0	0					
	Cabinet+Sprinklered	1	1.5	2	1.5	1	(1.00)	(1.50)	(2)	(1.50)	(1.00)					
3	Base(No Cabinet or Sprinkler)	5	7.5	10	7.5	5	(5.00)	(7.50)	(10)	(7.50)	(5.00)	N/A				
	Sprinklered (No Cabinet)	10	15	20	15	10	(10.00)	(15.00)	(20)	(15.00)	(10.00)					
	Cabinet (No Sprinkler)	10	15	20	15	10	(10.00)	(15.00)	(20)	(15.00)	(10.00)					
	Cabinet+Sprinklered	20	30	40	30	20	(20.00)	(30.00)	(40)	(30.00)	(20.00)					
2	Base(No Cabinet or Sprinkler)	125	187.5	250	187.5	125	(125.00)	(187.50)	(250)	(187.50)	(125.00)	N/A				
	Sprinklered (No Cabinet)	250	375	500	375	250	(250.00)	(375.00)	(500)	(375.00)	(250.00)					
	Cabinet (No Sprinkler)	250	375	500	375	250	(250.00)	(375.00)	(500)	(375.00)	(250.00)					
	Cabinet+Sprinklered	500	750	1000	750	500	(500.00)	(750.00)	(1000)	(750.00)	(500.00)					
1	Base(No Cabinet or Sprinkler)	2000	3000	4000	3000	2000	2000.00	3000.00	4000	3000.00	2000.00	N/A				
	Sprinklered (No Cabinet)	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.					
	Cabinet (No Sprinkler)	4000	6000	8000	6000	4000	4000.00	6000.00	8000	6000.00	4000.00					
	Cabinet+Sprinklered	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.	N.L.					
Oxidizing																
Gas	Base(No Cabinet or Sprinkler)	N/A					7.5	11.25	15	11.25	7.5	750	1125	1500	1125	750
	Sprinklered (No Cabinet)						15	22.5	30	22.5	15	1500	2250	3000	2250	1500
	Cabinet (No Sprinkler)						15	22.5	30	22.5	15	1500	2250	3000	2250	1500
	Cabinet+Sprinklered						30	45	60	45	30	3000	4500	6000	4500	3000
Pyrophoric Material																
N/A	Base(No Cabinet or Sprinkler)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sprinklered (No Cabinet)	2	3	4	3	2	(2)	(3)	(4)	(3)	(2)	25	37.5	50	37.5	25
	Cabinet (No Sprinkler)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cabinet+Sprinklered	4	6	8	6	4	(4)	(6)	(8)	(6)	(4)	50	75	100	75	50

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		Floor Location					Floor Location					Floor Location				
		Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third	Sub Bsmnt	Bsmnt	First	Second	Third
Unstable Reactive																
4	Base(No Cabinet or Sprinkler)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sprinklered (No Cabinet)	0.5	0.75	1	0.75	0.5	(0.50)	(0.75)	(1)	(0.75)	(0.50)	5	7.5	10	7.5	5
	Cabinet (No Sprinkler)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cabinet+Sprinklered	1	1.5	2	1.5	1	(1.00)	(1.50)	(2)	(1.50)	(1.00)	10	15	20	15	10
3	Base(No Cabinet or Sprinkler)	2.5	3.75	5	3.75	2.5	(3)	(4)	(5)	(4)	(3)	25	37.5	50	37.5	25
	Sprinklered (No Cabinet)	5	7.5	10	7.5	5	(5)	(8)	(10)	(8)	(5)	50	75	100	75	50
	Cabinet (No Sprinkler)	5	7.5	10	7.5	5	(5)	(8)	(10)	(8)	(5)	50	75	100	75	50
	Cabinet+Sprinklered	10	15	20	15	10	(10)	(15)	(20)	(15)	(10)	100	150	200	150	100
2	Base(No Cabinet or Sprinkler)	25	37.5	50	37.5	25	(25.0)	(37.5)	(50.0)	(37.5)	(25.0)	125	187.5	250	187.5	125
	Sprinklered (No Cabinet)	50	75	100	75	50	(50.0)	(75.0)	(100.0)	(75.0)	(50.0)	250	375	500	375	250
	Cabinet (No Sprinkler)	50	75	100	75	50	(50.0)	(75.0)	(100.0)	(75.0)	(50.0)	250	375	500	375	250
	Cabinet+Sprinklered	100	150	200	150	100	(100.0)	(150.0)	(200.0)	(150.0)	(100.0)	500	750	1000	750	500
1	Base(No Cabinet or Sprinkler)	N.L.					N.L.					N.L.				
	Sprinklered (No Cabinet)															
	Cabinet (No Sprinkler)															
	Cabinet+Sprinklered															
Water Reactives																
3	Base(No Cabinet or Sprinkler)	2.5	3.75	5	3.75	2.5	(3)	(4)	(5)	(4)	(3)	N/A.				
	Sprinklered (no Cabinet)	5	7.5	10	7.5	5	(5)	(8)	(10)	(8)	(5)					
	Cabinet (Non-sprinklered)	5	7.5	10	7.5	5	(5)	(8)	(10)	(8)	(5)					
	Cabinet+Sprinklered	10	15	20	15	10	(10)	(15)	(20)	(15)	(10)					
2	Base(No Cabinet or Sprinkler)	25	37.5	50	37.5	25	(25.0)	(37.5)	(50.0)	(37.5)	(25.0)	N/A.				
	Sprinklered (No Cabinet)	50	75	100	75	50	(50.0)	(75.0)	(100.0)	(75.0)	(50.0)					
	Cabinet (No Sprinkler)	50	75	100	75	50	(50.0)	(75.0)	(100.0)	(75.0)	(50.0)					
	Cabinet+Sprinklered	100	150	200	150	100	(100.0)	(150.0)	(200.0)	(150.0)	(100.0)					
1	Base(No Cabinet or Sprinkler)	N.L.					N.L.					N/A.				
	Sprinklered (No Cabinet)															
	Cabinet (No Sprinkler)															
	Cabinet+Sprinklered															

N/A = Not Applicable
N.L = No Limit