

# PRCTI20251723



## AutoZone Hazardous Materials Total Summary & Code Comparison

MATERIAL	CLASS	Physical State	Amount Stored at Facility	Maximum Allowable Quantity - Storage			IFC 2021 Reference
				Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas cubic feet at NTP	
Flammable liquid <sup>b</sup>	IB	Liquid	21.46				
Flammable liquid <sup>b</sup>	IC	Liquid	142				
Combustible liquid <sup>b</sup>	II	Liquid	24				
Combustible liquid <sup>b</sup>	IIIA	Liquid	20				
<b>Class IB, IC, II and IIA</b>	<b>Combined</b>	<b>Liquid</b>	<b>207.46</b>	<b>Not Applicable</b>	<b>15,000</b>	<b>Not Applicable</b>	<b>5704.3.4.1</b>
Flammable liquid <sup>b</sup>	IA	Liquid	0.012	Not Applicable	60	Not Applicable	5704.3.4.1
Combustible liquid <sup>b</sup>	IIIB	Liquid	1,709	Not Applicable	Unlimited	Not Applicable	5704.3.4.1
Combustible fiber	Loose Baled <sup>c</sup>	Solid	0	(1,000)	Not Applicable	Not Applicable	5003.1.1(1)
Cryogenic Flammable	Not Applicable	Liquid	0	Not Applicable	45 <sup>d</sup>	Not Applicable	5003.1.1(1)
Consumer fireworks (Class C Common)	1.4G	Solid	0	125 <sup>d, e, 1</sup>	Not Applicable	Not Applicable	5003.1.1(1)
Cryogenic Oxidizing	Not Applicable	Liquid	0	Not Applicable	45 <sup>d</sup>	Not Applicable	5003.1.1(1)
Explosives	Division 1.1	Solid	0	1 <sup>e, g</sup>	(1) <sup>e, g</sup>	Not Applicable	5003.1.1(1)
	Division 1.2	Solid	0	1 <sup>e, g</sup>	(1) <sup>e, g</sup>		5003.1.1(1)
	Division 1.3	Solid	0	5 <sup>e, g</sup>	(5) <sup>e, g</sup>		5003.1.1(1)
	Division 1.4	Solid	0	50 <sup>e, g</sup>	(50) <sup>e, g</sup>		5003.1.1(1)
	Division 1.4G	Solid	0	125 <sup>d, e, 1</sup>	Not Applicable		5003.1.1(1)
	Division 1.5	Solid	0	1 <sup>e, g</sup>	(1) <sup>e, g</sup>		5003.1.1(1)
Division 1.6	Solid	0	1 <sup>e, g</sup>	Not Applicable	5003.1.1(1)		
Flammable Gas	Gaseous Liquefied	Gas	0	Not Applicable	Not Applicable (150) <sup>d, e</sup>	1,000 <sup>d, e</sup> Not Applicable	5003.1.1(1)
Flammable solid	Not Applicable	Solid	0	125 <sup>d, e</sup>	Not Applicable	Not Applicable	5003.1.1(1)
Inert Gas	Gaseous	Gas	0	Not Applicable	Not Applicable	Not Limited	5003.1.1(1)
	Liquefied	Gas	0	Not Applicable	Not Applicable	Not Limited	5003.1.1(1)
Cryogenic Inert	Not Applicable	Gas	0	Not Applicable	Not Applicable	Not Limited	5003.1.1(1)
Organic peroxide	UD	Liquid	0	1 <sup>e, g</sup>	(1) <sup>e, g</sup>	Not Applicable	5003.1.1(1)
	UD	Solid	0	1 <sup>e, g</sup>	(1) <sup>e, g</sup>		5003.1.1(1)
	I	Liquid	0	5 <sup>d, e</sup>	(5) <sup>d, e</sup>		5003.1.1(1)
	I	Solid	0	5 <sup>d, e</sup>	(5) <sup>d, e</sup>		5003.1.1(1)
	II	Liquid	0	50 <sup>d, e</sup>	(50) <sup>d, e</sup>		5003.1.1(1)
	II	Solid	0	50 <sup>d, e</sup>	(50) <sup>d, e</sup>		5003.1.1(1)
	III	Liquid	0	125 <sup>d, e</sup>	(125) <sup>d, e</sup>		5003.1.1(1)
	III	Solid	0	125 <sup>d, e</sup>	(125) <sup>d, e</sup>		5003.1.1(1)
	IV	Liquid	0	Not Limited	Not Limited		5003.1.1(1)
	IV	Solid	0	Not Limited	Not Limited		5003.1.1(1)
Oxidizer	4	Liquid	N/A	1 <sup>g</sup>	(1) <sup>e, g</sup>	Not Applicable	5003.1.1(1)
	4	Solid	N/A	1 <sup>g</sup>	(1) <sup>e, g</sup>		5003.1.1(1)
	3 <sup>a</sup>	Liquid	N/A	10 <sup>d, e</sup>	(10) <sup>d, e</sup>		5003.1.1(1)
	3 <sup>a</sup>	Solid	N/A	10 <sup>d, e</sup>	(10) <sup>d, e</sup>		5003.1.1(1)
	2	Liquid	N/A	250 <sup>d, e</sup>	(250) <sup>d, e</sup>		5003.1.1(1)
	2	Solid	N/A	250 <sup>d, e</sup>	(250) <sup>d, e</sup>		5003.1.1(1)
	1	Liquid	N/A	4,000 <sup>d, f</sup>	(4,000) <sup>d, f</sup>		5003.1.1(1)
	1	Solid	N/A	4,000 <sup>d, f</sup>	(4,000) <sup>d, f</sup>		5003.1.1(1)
Oxidizing gas	Gaseous	Gas	0	Not Applicable	Not Applicable (150) <sup>d, e</sup>	1,500 <sup>d, e</sup> Not Applicable	5003.1.1(1)
	Liquefied	Liquid	0	Not Applicable	Not Applicable (150) <sup>d, e</sup>	Not Applicable	5003.1.1(1)
Pyrophoric	Not Applicable	N/A	0	4 <sup>e, g</sup>	(4) <sup>e, g</sup>	50 <sup>e, g</sup>	5003.1.1(1)
Unstable (reactive)	4	Liquid	NA	1 <sup>e, g</sup>	(1) <sup>e, g</sup>	10 <sup>e, g</sup>	5003.1.1(1)
	4	Solid	N/A	1 <sup>e, g</sup>	(1) <sup>e, g</sup>	10 <sup>e, g</sup>	5003.1.1(1)
	3	Liquid	N/A	5 <sup>d, e</sup>	(5) <sup>d, e</sup>	50 <sup>d, e</sup>	5003.1.1(1)
	3	Solid	N/A	5 <sup>d, e</sup>	(5) <sup>d, e</sup>	50 <sup>d, e</sup>	5003.1.1(1)
	2	Liquid	N/A	50 <sup>d, e</sup>	(50) <sup>d, e</sup>	250 <sup>d, e</sup>	5003.1.1(1)
	2	Solid	N/A	50 <sup>d, e</sup>	(50) <sup>d, e</sup>	250 <sup>d, e</sup>	5003.1.1(1)
	1	Liquid	N/A	Not Limited	Not Limited	Not Limited	5003.1.1(1)
	1	Solid	N/A	Not Limited	Not Limited	Not Limited	5003.1.1(1)
Water reactive	3	Liquid	N/A	5 <sup>d, e</sup>	(5) <sup>d, e</sup>	Not Applicable	5003.1.1(1)
	3	Solid	N/A	5 <sup>d, e</sup>	(5) <sup>d, e</sup>		5003.1.1(1)
	2	Liquid	N/A	50 <sup>d, e</sup>	(50) <sup>d, e</sup>		5003.1.1(1)
	2	Solid	N/A	50 <sup>d, e</sup>	(50) <sup>d, e</sup>		5003.1.1(1)
	1	Liquid	N/A	Not Limited	Not Limited		5003.1.1(1)
	1	Solid	N/A	Not Limited	Not Limited		5003.1.1(1)
<b>Aerosols</b>	<b>Level 1</b>	<b>Aerosol</b>	<b>(1,632)</b>	<b>Not Applicable</b>	<b>Not Limited</b>	Not Applicable	<b>Table 5104.7</b>
	<b>Level 2&amp;3 Combined</b>		<b>(798)</b>	<b>Not Applicable</b>	<b>(2,500)</b>	Not Applicable	
Carcinogen	Not Applicable	Liquid & Solid	45.3 gal / 2 lbs		Not Limited		Not noted by 2021 IFC
Irritant	Not Applicable	Liquid & Solid	2,806.5 gal / 5,157 lbs		Not Limited		Not noted by 2021 IFC
Other Health Hazard		Liquid & Solid	1,527.4 gal / 27,090 lbs				
Sensitizer		Liquid & Solid	9.9 gal / 1.14 lbs				

**Table 5704.3.4.1 footnotes**

For SI: 1 cubic foot = 304.8 mm, 1 square foot = .0929 m<sup>2</sup>, 1 gallon = 3.785 L, 1 gallon per minute per square foot = 40.75 L/min/m<sup>2</sup>

- a. Control areas shall be separated from each other by not less than a 1-hour fire barrier wall.
- 1. For uncartoned commodities on shelves 6 feet or less in height where the ceiling height does not exceed 18 feet, quantities are those allowed with a minimum sprinkler design density of Ordinary Hazard Group 2. amounts attained by having an additional control area, shall not exceed 30,000 gallons

**Table 5003.1.1(1) footnotes**

For SI: 1 cubic foot = 0.02832 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

- a. For use of control areas, see Section 5003.8.3
- b. The aggregate quantity in use and storage shall not exceed the quantity listed for storage.
- c. The quantities of alcoholic beverages in retail and wholesale sales occupancies shall not be limited providing the liquids are packaged in individual containers not exceeding 1.3 gallons. In retail and wholesale sales occupancies, the quantities of medicines, foodstuffs, consumer or industrial products, and cosmetics containing not more than 50 percent by volume of water-miscible liquids and with the remainder of the solutions not being flammable shall not be limited, provided such materials are packaged in individual containers not exceeding 1.3 gallons.
- d. Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1. Where note e applies, the increase for both notes shall be applied accumulatively. *This footnote shall not be applicable to Group L occupancies.*
- e. Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets, day boxes, gas cabinets, exhausted enclosures, or listed safety cans. Listed safety cans shall be in accordance with Section 2703.9.10. Where note d also applies, the increase on both notes shall be applied accumulatively.
- f. Quantities shall not be limited in a building equipped throughout with an approved automatic sprinkler system.
- g. Allowed only in buildings equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1.
- h. Containing not more than the maximum allowable quantity per control area of Class IA, Class IB or IC flammable liquids.
- i. The maximum allowable quantity shall not apply to fuel oil storage complying with Section 603.3.2.
- j. Quantities in parentheses indicate quantity units in parentheses at the head of each column.
- k. A maximum quantity of 200 pounds of solid or 20 gallons of liquid Class 3 oxidizers is allowed when such materials are necessary for maintenance purposes, operation or sanitation of equipment when the storage containers and the manner of storage are approved.
- l. Net weight of pyrotechnic composition of fireworks. Where the net weight of the pyrotechnic composition of the fireworks is not known, 25 percent of the gross weight of the fireworks including packaging shall be used.
- m. For gallons of liquids, divide the amount in pounds by 10 in accordance with Section 5003.1.2
- n. For storage and display quantities in Group M and storage quantities in Group S occupancies complying with Section 2703.11, see Table 5003.11.1.
- o. Densely-packaged baled cotton that complies with the packaging requirements of ISO 8115 shall not be included in this class.
- p. The following shall not be included in determining maximum allowable quantities:
  - 1. Liquid or gaseous fuel in fuel tanks on vehicles.
  - 2. Liquid or gaseous fuel in fuel tanks on motorized equipment operated in accordance with this code.
  - 3. Gaseous fuels in piping systems and fixed appliances regulated by the *International Mechanical Code*.
  - 4. Liquid fuels in piping systems and fixed appliances, regulated by the *International Mechanical Code*.

Table 5003.11.1				
Maximum Allowable Quantity per Indoor and Outdoor Control Area in Group M and S Occupancies - NonFlammable Solids, Non Flammable and Non Combustible Liquids <sup>d,e,f</sup>				
MATERIAL <sup>g</sup>	Class			Amount Stored at Facility
		Solids Pounds	Liquids Gallons	
<b>A. Health - Hazard Materials NonFlammable and Noncombustible Solids and Liquids</b>				
Corrosives <sup>b,c</sup>	Not Applicable	9,750	975	423.38 gal / 2194.56 lbs
Highly Toxics	Not Applicable	20 <sup>b,c</sup>	2 <sup>b,c</sup>	0
Toxics <sup>b,c</sup>	Not Applicable	1,000	100	5.88 gal
<b>B. Physical-Hazard Materials - NonFlammable and NonCombustible Solids and Liquids</b>				
Oxidizers <sup>b,c</sup>	4	Not allowed	Not allowed	0
	3	1,150 <sup>e</sup>	115	0
	2	2,250 <sup>h</sup>	225	0
	1	18,000 <sup>ij</sup>	1800 <sup>j</sup>	0
Unstable (Reactives) <sup>b,c</sup>	4	Not allowed	Not allowed	0
	3	550	55	0
	2	1150	115	0
	1	Not Limited	Not Limited	2.7
Water Reactives	3 <sup>b,c</sup>	550	55	0.75
	2 <sup>b,c</sup>	1150	115	1215.48 lbs / 175.25 gal
	1	Not Limited	Not Limited	46.13 gal

For SI: 1 cubic foot = 0.02832 m<sup>3</sup>, 1 pound = 0.454 kg, 1 gallon = 3.785 L.

- a. Hazard categories are as specified in section 5001.2.2.
- b. Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an approved automatic sprinkler system in accordance with section 903.3.1.1. When note c also applies, the increase for both notes shall be applied accumulatively.
- c. Maximum allowable quantities shall be increased 100 percent when stored in approved storage cabinets in accordance with section 5003.8. When note b also applies, the increase for both notes shall be applied accumulatively.
- d. See Table 5003.8.3.2 for design and number of control areas
- e. Maximum allowable quantities for other hazardous materials categories shall be in accordance with Section 5003.1
- f. Maximum allowable quantities shall be increased 100 percent in outdoor control areas.
- g. Maximum allowable quantities are permitted to be increased to 2,250 pounds when individual packages are in the original sealed containers from the manufacturer or packager and do not exceed 10 pounds each
- h. Maximum allowable quantities are permitted to be increased to 4500 pounds when individual packages are in the original sealed containers from the manufacturer or packager and do not exceed 10 pounds each
- i. Quantities are unlimited where protected by an automatic sprinkler system
- j. Quantities are unlimited in an outdoor control area

**Section 5104.7 Storage in Group M Occupancies**

Storage of Level 2 and 3 aerosol products in occupancies in Group M shall comply with table 5104.7. Retail display shall comply with Section 5106

Floor	Non Segregated Storage <sup>a,b</sup>	Amount Stored at Facility	Segregated Storage	
			Storage cabinets <sup>b</sup>	Separated from retail area <sup>c</sup>
Basement	Not Permitted	0	Not Permitted	Not Permitted
Ground Floor	2,500	801.55	5,000	Note d
Upper Floors	500	0	1,000	Note d

For SI: 1 pound=0.454 kg, 1 square foot=0.0929 m<sup>2</sup>

a. The total aggregate quantity on display and in storage shall not exceed the maximum retail display quantity indicated in Section 5106.3.

b. Storage quantities indicated are the maximum permitted in any 50,000-square-foot area.

c. The storage area shall be separated from the retail area with a 1-hour fire-resistance-rated assembly.

d. See Table 5104.3.2