

QUANTITY AND LOADING TABLE—Continued

Applicability	Forbidden	Quantity Limitation: 25 kg net weight of hazardous material plus 75 kg net weight of Division 2.2 (non-flammable compressed gas) per cargo compartment	No limit
Cargo-only aircraft— Packages not authorized aboard a passenger-carrying aircraft and displaying a Cargo Aircraft Only label.	Inaccessible (Note 1)	Not applicable	Accessible (Note 2).

Note 1 to § 175.75(f):

- The following materials are not subject to this loading restriction—
- a. Class 3, PG III (unless the substance is also labeled CORROSIVE).
- b. Division 6.1 (unless the substance is also labeled for any hazard class or division except FLAMMABLE LIQUID).
- c. Division 6.2.
- d. Class 7 (unless the hazardous material meets the definition of another hazard class).
- e. Class 9, Limited Quantity, or Excepted Quantity material.
- f. Articles of Identification Numbers UN0012, UN0014, or UN0055 also meeting the requirements of § 173.63(b).
- g. Articles of Identification Numbers UN3528 or UN3529.

Note 2 to § 175.75(f):

Aboard cargo-only aircraft, packages required to be loaded in a position that is considered to be accessible include those loaded in a Class C cargo compartment.

[76 FR 82178, Dec. 30, 2011, as amended at 78 FR 65486, Oct. 31, 2013; 81 FR 35544, June 2, 2016; 82 FR 15892, Mar. 30, 2017; 85 FR 83402, Dec. 21, 2020; 87 FR 44998, July 26, 2022]

§ 175.78 Stowage compatibility of cargo.

(a) For stowage on an aircraft, in a cargo facility, or in any other area at an airport designated for the stowage of hazardous materials, packages containing hazardous materials which might react dangerously with one another may not be placed next to each other or in a position that would allow a dangerous interaction in the event of leakage.

(b)(1) At a minimum, the segregation instructions prescribed in the following Segregation Table must be followed to maintain acceptable segregation between packages containing hazardous materials with different hazards. The Segregation Table instructions apply whether or not the class or division is the primary or subsidiary risk.

(2) Packages and overpacks containing articles of Identification Numbers UN3090 and UN3480 prepared in accordance with §173.185(b)(3) and (c)(4)(vi) must not be stowed on an aircraft next to, in contact with, or in a position that would allow interaction with packages or overpacks containing hazardous materials that bear a Class 1 (other than Division 1.4S), Division 2.1, Class 3, Division 4.1, or Division 5.1 hazard label. To maintain acceptable segregation between packages and overpacks, the segregation requirements shown in the Segregation Table must be followed. The segregation requirements apply based on all hazard labels applied to the package or overpack, irrespective of whether the hazard is the primary or subsidiary hazard.

TABLE TO PARAGRAPH (b): SEGREGATION TABLE

Hazard label	Class or division											
	1	2.1	2.2, 2.3	3	4.1	4.2	4.3	5.1	5.2	8	⁹ see (b)(2)	
1	Note 1	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2	Note 2
2.1	Note 2 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	X
2.2, 2.3	Note 2 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	X
3	Note 2 .....	.....	.....	.....	.....	.....	.....	X (Note 3) .....	.....	.....	.....	X
4.1	Note 2 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	X
4.2	Note 2 .....	.....	.....	.....	.....	.....	.....	X .....	.....	.....	.....	.....
4.3	Note 2 .....	.....	.....	.....	.....	.....	.....	.....	.....	X .....	.....	.....
5.1	Note 2 .....	.....	.....	X (Note 3) .....	.....	X .....	.....	.....	.....	.....	.....	X
5.2	Note 2 .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
8	Note 2 .....	.....	.....	.....	.....	.....	X .....	.....	.....	.....	.....	.....
9 see (b)(2)	Note 2	X .....	.....	X	X .....	.....	.....	X .....	.....	.....	.....	.....

(c) Instructions for using the Segregation Table are as follows:

(1) Hazard labels, classes or divisions not shown in the table are not subject to segregation requirements.

(2) Dots at the intersection of a row and column indicate that no restrictions apply.

(3) The letter “X” at the intersection of a row and column indicates that packages containing these classes of hazardous materials may not be stowed next to or in contact with each other, or in a position which would allow interaction in the event of leakage of the contents.

(4) Note 1. “Note 1” at the intersection of a row and column means the following:

(i) Only Division 1.4, Compatibility Group S, explosives are permitted to be transported aboard a passenger aircraft. Only certain Division 1.3, Compatibility Groups C and G, and Division 1.4, Compatibility Groups B, C, D, E, G and S, explosives may be transported aboard a cargo aircraft.

(ii) Division 1.4 explosives in Compatibility Group S may be stowed with Division 1.3 and 1.4 explosives in compatibility groups as permitted aboard aircraft under paragraph (c)(4)(i) above.

(iii) Except for Division 1.4B explosives and as otherwise provided in this Note, explosives of different compatibility groups may be stowed together whether or not they belong to the same division. Division 1.4B explosives must not be stowed together with any other explosive permitted aboard aircraft except Division 1.4S, unless segregated as prescribed in paragraph (c)(4)(iv) of this section (“Note 1”).

(iv) Division 1.4B and Division 1.3 explosives may not be stowed together. Division 1.4B explosives must be loaded into separate unit load devices and, when stowed aboard the aircraft, the unit load devices must be separated by other cargo with a minimum separation of 2 m (6.5 feet). When not loaded in unit load devices, Division 1.4B and Division 1.3 explosives must be loaded into different, non-adjacent loading positions and separated by other cargo with a minimum separation of 2 m (6.5 feet).

(5) Note 2. “Note 2” at the intersection of a row and column means that

other than explosives of Division 1.4, Compatibility Group S, explosives may not be stowed together with that class.

(6) Packages containing hazardous materials with multiple hazards in the class or divisions, which require segregation in accordance with the Segregation Table, need not be segregated from other packages bearing the same UN number.

(7) A package labeled “BLASTING AGENT” may not be stowed next to or in a position that will allow contact with a package of special fireworks or railway torpedoes.

(8) Note 3. “Note 3” at the intersection of a row and column means that UN 3528, Engines, internal combustion, flammable liquid powered; Engines, fuel cell, flammable liquid powered; Machinery internal combustion, flammable liquid powered; and Machinery, fuel cell, flammable liquid powered need not be segregated from packages containing dangerous goods in Division 5.1.

[71 FR 14604, Mar. 22, 2006, as amended at 71 FR 54396, Sept. 14, 2006; 71 FR 78634, Dec. 29, 2006; 76 FR 3384, Jan. 19, 2011; 85 FR 27899, May 11, 2020]

§ 175.88 Inspection, orientation and securing packages of hazardous materials.

(a) A unit load device may not be loaded on an aircraft unless the device has been inspected and found to be free from any evidence of leakage from, or damage to, any package containing hazardous materials.

(b) A package containing hazardous materials marked “THIS SIDE UP” or “THIS END UP”, or with arrows to indicate the proper orientation of the package, must be stored and loaded aboard an aircraft in accordance with such markings. A package without orientation markings containing liquid hazardous materials must be stored and loaded with top closure facing upward.

(c) Packages containing hazardous materials must be:

(1) Secured in an aircraft in a manner that will prevent any shifting or change in the orientation of the packages;