

## 2.2 INCOMPATIBLE DANGEROUS GOODS

### 2.2.1 Segregation

2.2.1.1 Packages containing dangerous goods which might react dangerously one with another must not be stowed on an aircraft next to each other or in a position that would allow interaction between them in the event of leakage. As a minimum, the segregation scheme shown in Table 7-1 must be followed in order to maintain acceptable segregation between packages containing dangerous goods having different hazards. The scheme applies irrespective of whether the hazard is the primary or subsidiary hazard.

2.2.1.2 Packages and overpacks containing UN 3480 – **Lithium ion batteries** prepared in accordance with Section IA or Section IB of Packing Instruction 965 and packages and overpacks containing UN 3090 – **Lithium metal batteries** prepared in accordance with Section IA or Section IB of Packing Instruction 968 must not be stowed on an aircraft next to, or in a position that would allow interaction with, packages or overpacks containing dangerous goods which 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 Table 7-1 must be followed. The segregation requirements apply based on all hazard labels applied on the package or overpack, irrespective of whether the hazard is the primary or subsidiary hazard.

### 2.2.2 Separation of explosive substances and articles

2.2.2.1 Only explosives in Division 1.4, Compatibility Group S, are permitted to be transported on passenger aircraft. Only the following explosives may be transported on a cargo aircraft:

Division 1.3: Compatibility Groups C, G

Division 1.4: Compatibility Groups B, C, D, E, G, S.

2.2.2.2 The extent to which explosives may be stowed together in an aircraft is determined by their “compatibility”. Explosives are considered to be compatible if they can be stowed together without significantly increasing either the probability of an accident or, for a given quantity, the magnitude of the effects of such an accident.

2.2.2.3 Explosives in Compatibility Group S may be stowed with explosives in all compatibility groups.

2.2.2.4 For explosives of different division numbers and compatibility groups, the separation scheme shown in Table 7-2 must be followed in order to maintain acceptable distances between such packages.

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**Table 7-1. Segregation between packages**

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 2.2.1.2
1	Note 1	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	–	–	–	–	–	–	–	–	–	–
3	Note 2	–	–	–	–	–	–	x	–	–	x
4.1	Note 2	–	–	–	–	–	–	–	–	–	x
4.2	Note 2	–	–	–	–	–	–	x	–	–	–
4.3	Note 2	–	–	–	–	–	–	–	–	x	–
5.1	Note 2	–	–	x	–	x	–	–	–	–	x
5.2	Note 2	–	–	–	–	–	–	–	–	–	–
8	Note 2	–	–	–	–	–	x	–	–	–	–
9	Note 2	x	–	x	x	–	–	x	–	–	–

An “x” at the intersection of a row and column indicates that packages containing these classes of dangerous goods 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. Thus, a package containing Class 3 dangerous goods may not be stowed next to or in contact with a package containing Division 5.1 dangerous goods.

*Note 1.— See 2.2.2.2 through 2.2.2.4 above*

*Note 2.— This class or division must not be stowed together with explosives other than those in Division 1.4, Compatibility Group S.*

*Note 3.— Packages containing dangerous goods with multiple hazards in the class or divisions which require segregation in accordance with Table 7-1 need not be segregated from other packages bearing the same UN number.*

*Note 4.— 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.*

**Table 7-2. Separation of explosive substances and articles**

Division and compatibility group	1.3C	1.3G	1.4B	1.4C	1.4D	1.4E	1.4G	1.4S
1.3C			x					
1.3G			x					
1.4B	x	x		x	x	x	x	
1.4C			x					
1.4D			x					
1.4E			x					
1.4G			x					
1.4S								

An “x” at the intersection of a row and column indicates that explosives of these divisions and compatibility groups 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 distance of 2 m. When not loaded in a unit load device, these explosives must be loaded into different, non-adjacent loading positions and separated by other cargo with a minimum separation distance of 2 m