

162 This material may be transported under the provisions of Division 4.1 only if it is packed so that at no time during transport will the percentage of diluent fall below the percentage that is stated in the shipping description.

(2) * * *

Code/Special Provisions

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A54 Lithium batteries or lithium batteries contained or packed with equipment that exceed the maximum gross weight allowed by Column (9B) of the § 172.101 Table may only be transported on cargo aircraft if approved by the Associate Administrator.

A55 Prototype lithium batteries and cells that are packed with not more than 24 cells or 12 batteries per packaging that have not completed the test requirements in Sub-section 38.3 of the UN Manual of Tests and Criteria

(incorporated by reference; see § 171.7 of this subchapter) may be transported by cargo aircraft if approved by the Associate Administrator and provided the following requirements are met:

a. The cells and batteries must be transported in rigid outer packagings that conform to the requirements of Part 178 of this subchapter at the Packing Group I performance level; and

b. Each cell and battery must be protected against short circuiting, must be surrounded by cushioning material that is non-combustible and non-conductive, and must be individually packed in an inner packaging that is placed inside an outer specification packaging.

A56 Radioactive material with a subsidiary hazard of Division 4.2, Packing Group I, must be transported in Type B packages when offered for transportation by aircraft. Radioactive material with a subsidiary hazard of

Division 2.1 is forbidden from transport on passenger aircraft.

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(4) *Table 1, Table 2, and Table 3—IB Codes, Organic Peroxide IBC Code, and IP Special IBC Packing Provisions.*

These provisions apply only to transportation in IBCs. When no IBC code is assigned in the § 172.101 Table for a specific proper shipping name, an IBC may be authorized when approved by the Associate Administrator. When only certain types of IBCs are authorized in Table 2 (IBC Code IB52), alternative types of IBCs may be authorized when approved by the Associate Administrator. The letter “Z” shown in the marking code for composite IBCs must be replaced with a capital code letter designation found in § 178.702(a)(2) of this subchapter to specify the material used for the outer packaging. Tables 1, 2, and 3 follow:

TABLE 1.—IB CODES (IBC CODES)

IBC code	Authorized IBCs
IB3	<p><i>Authorized IBCs:</i> Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2).</p> <p><i>Additional Requirement:</i> Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55 °C (1.3 bar at 131 °F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 3 for UN2672).</p>

TABLE 2.—ORGANIC PEROXIDE IBC CODE (IB52)

UN No.	Organic peroxide	Type of IBC	Maximum quantity (liters)	Control temperature	Emergency temperature
3109	REMOVE:				
	Di-tert-butyl peroxide, not more than 52% in diluent type A.	31A 31HA1	1250 1000		
3109	ADD:				
	Dicumyl peroxide, less than or equal to 100%.	31A 31HA1	1250 1000		
3109	Di-tert-butyl peroxide, not more than 52% on diluent type B.	31A 31HA1	1250 1000		
	Peroxyacetic acid, with not more than 26% hydrogen peroxide.	31A 31HA1	1500 1500		
	Peroxyacetic acid, type F, stabilized.	31A 31HA1	1500 1500		
3110	REVISE:				
	Dicumyl peroxide, less than or equal to 100%.	31A	2000		