

## CHAPTER 3.4

### DANGEROUS GOODS PACKED IN LIMITED QUANTITIES

#### 3.4.1 General requirements

3.4.1.1 Packagings used in accordance with 3.4.3 to 3.4.6 below, need only to conform to the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 of ADR.

3.4.1.2 The maximum gross mass of a combination packaging shall not exceed 30 kg and for shrink and stretched wrapped trays shall not exceed 20 kg.

*NOTE:* The limit for combination packagings does not apply when LQ5 is issued.

3.4.1.3 Subject to the maximum limits in 3.4.1.2 and individual limits in table 3.4.6, dangerous goods may be packed together with other articles or substances, provided they will not react dangerously in the event of leakage.

3.4.2 When the code "LQ0" is shown in Column (7a) of Table A in Chapter 3.2 for a given substance or article, that substance or article is not exempted from any of the applicable provisions of ADN when it is packed in limited quantities, unless otherwise specified in these annexed Regulations.

3.4.3 Unless otherwise provided in this Chapter, when one of the codes "LQ1" or "LQ2" is shown in Column (7a) of Table A in Chapter 3.2 for a given substance or article, the provisions of other Chapters of ADN do not apply to the carriage of that substance or article, provided:

- (a) the provisions of 3.4.5 (a) to (c) are observed; with respect to these provisions, articles are considered to be inner packagings;
- (b) inner packagings meet the conditions of 6.2.5.1 and 6.2.6.1 to 6.2.6.3 of ADR.

3.4.4 Unless otherwise provided in this Chapter, when the code "LQ3" is shown in Column (7a) of Table A in Chapter 3.2 for a given substance, the provisions of other Chapters of ADN do not apply to the carriage of that substance, provided:

- (a) The substance is carried in combination packagings, the following outer packagings being allowed:
  - steel or aluminium drums with removable head;
  - steel or aluminium jerricans with removable head;
  - plywood or fibre drums;
  - plastics drums or jerricans with removable head;
  - boxes of natural wood, plywood, reconstituted wood, fibreboard, plastics, steel or aluminium;

and be so designed that they meet the relevant construction requirements of 6.1.4 of ADR;

- (b) The maximum net quantities per inner packaging shown in columns (2) or (4) and per package in columns (3) or (5), where indicated, of table 3.4.6 are not exceeded;

- (c) Each package is clearly and durably marked with :
- (i) the UN number of the goods contained therein, as given in Column (1) of Table A in Chapter 3.2, preceded by the letters "UN";
  - (ii) in the case of different goods with different UN numbers within a single package:
    - the UN numbers of the goods contained therein, preceded by the letters "UN", or
    - the letters "LQ"<sup>1</sup>.

These markings shall be displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm × 100 mm. The width of line forming the diamond shall be at least 2 mm; the number shall be at least 6 mm high. Where more than one substance assigned to different UN numbers are included in the package, the diamond shall be large enough to include each relevant UN number. If the size of the package so requires, the dimension may be reduced, provided the markings remain clearly visible.

3.4.5 Unless otherwise provided in this Chapter, when one of the codes "LQ4" to "LQ19" and "LQ22" to "LQ28" is shown in Column (7a) of Table A in Chapter 3.2 for a given substance, the provisions of other Chapters of ADN do not apply to the carriage of that substance, provided:

- (a) The substance is carried:
  - in combination packagings, corresponding to the prescriptions of 3.4.4 (a), or
  - in metal or plastics inner packagings which are not liable to break or be easily punctured, placed in shrink-wrapped or stretch-wrapped trays;
- (b) The maximum net quantities per inner packaging shown in columns (2) or (4) and per package in columns (3) or (5), where indicated, of table 3.4.6 are not exceeded;
- (c) Each package is clearly and durably marked as indicated in 3.4.4 (c).

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<sup>1</sup> The letters "LQ" are an abbreviation of the English words "Limited Quantities". The letters "LQ" are not permitted by the IMDG Code or the ICAO Technical Instructions.

## 3.4.6 Table

Code	Combination packagings <sup>a</sup> Maximum net quantity		Inner packagings placed in shrink-wrapped or stretch-wrapped trays <sup>a</sup> Maximum net quantity	
	per inner packaging	per package <sup>b</sup>	per inner packaging	per package <sup>b</sup>
(1)	(2)	(3)	(4)	(5)
LQ0	No exemption under the conditions of 3.4.2.			
LQ1	120 ml		120 ml	
LQ2	1 l		1 l	
LQ3 <sup>c</sup>	500 ml	1 l	Not allowed	Not allowed
LQ4 <sup>c</sup>	3 l		1 l	
LQ5 <sup>c</sup>	5 l	Unlimited	1 l	
LQ6 <sup>c</sup>	5 l		1 l	
LQ7 <sup>c</sup>	5 l		5 l	
LQ8	3 kg		500 g	
LQ9	6 kg		3 kg	
LQ10	500 ml		500 ml	
LQ11	500 g		500 g	
LQ12	1 kg		1 kg	
LQ13	1 l		1 l	
LQ14	25 ml		25 ml	
LQ15	100 g		100 g	
LQ16	125 ml		125 ml	
LQ17	500 ml	2 l	100 ml	2 l
LQ18	1 kg	4kg	500 g	4 kg
LQ19	5 kg		5 kg	
LQ20	Reserved	Reserved	Reserved	Reserved
LQ21	Reserved	Reserved	Reserved	Reserved
LQ22	1 l		500 ml	
LQ23	3 kg		1 kg	
LQ24	6 kg		2 kg	
LQ25 <sup>d</sup>	1 kg		1 kg	
LQ26 <sup>d</sup>	500 ml	2 l	500 ml	2 l
LQ27	6 kg		6 kg	
LQ28	3 l		3 l	

<sup>a</sup> See 3.4.1.2.

<sup>b</sup> See 3.4.1.3.

<sup>c</sup> In the case of homogenous mixtures of Class 3 containing water, the quantities specified relate only to the substance of Class 3 contained in those mixtures.

<sup>d</sup> For UN Nos. 2315, 3151, 3152 and 3432 when carried in apparatus, the inner packaging quantities shall not be exceeded per piece of apparatus. The apparatus shall be carried in a leakproof packaging and the complete package shall conform to 3.4.4 (c). Shrink-wrapped and stretch-wrapped trays shall not be used for apparatus.

3.4.7 Overpacks containing packages conforming to 3.4.3, 3.4.4 or 3.4.5 shall be marked, as required by 3.4.4 (c) for each item of dangerous goods contained in the overpack, unless markings representative of all dangerous goods contained in the overpack are visible.

3.4.8 The requirements

- (a) of sub-section 5.2.1.9 on the placement of orientation arrows on packages;
- (b) of sub-section 5.1.2.1 (b) on the placement of orientation arrows on overpacks; and

(c) of sub-section 7.5.1.5 of ADR on the orientation of packages

shall be applicable also to packages and overpacks carried in accordance with this chapter.

3.4.9 Consignors of dangerous goods packed in limited quantities shall inform the carrier of the total gross mass of such goods to be consigned, in advance of carriage not involving maritime transport.

3.4.10 (a) Transport units with a maximum mass exceeding 12 tonnes carrying packages with dangerous goods in limited quantities shall be marked in accordance with 3.4.12 at the front and at the rear except when orange-coloured plate marking is displayed in accordance with 5.3.2.

(b) Wagons carrying packages with dangerous goods in limited quantities shall be marked in accordance with 3.4.12 on both sides except when placards in accordance with section 5.3.1 are already affixed.

(c) Containers carrying packages with dangerous goods in limited quantities shall be marked in accordance with 3.4.12 on all four sides except.

- when placards in accordance with section 5.3.1 are already affixed;
- for small containers loaded on a wagon;
- for containers loaded on a transport unit with a maximum mass less than or equal to 12 tonnes.

If the containers are loaded on a transport unit or wagon, the carrying transport unit or wagon need not be marked, except when the marking affixed to the containers is not visible from the outside of this carrying transport unit or wagon. In this latter case, the same marking shall also be affixed at the front and the rear of the carrying transport unit, or on both sides of the carrying wagon.

3.4.11 Markings specified in 3.4.10 may be dispensed with, if the total gross mass of the packages containing dangerous goods packed in limited quantities carried does not exceed 8 tonnes per transport unit, wagon or large container.

3.4.12 The marking shall consist of "LTD QTY"<sup>2</sup> in black letters not less than 65 mm high on a white background.

3.4.13 Markings according to chapter 3.4 of the IMDG Code are also acceptable for carriage in a transport chain including maritime carriage.

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<sup>2</sup> The letters "LTD QTY" are an abbreviation of the English words "Limited Quantity".