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Joint Meeting of the RID Safety Committee and the
Working Party on the Transport of Dangerous Goods
(Bern, 18-22 March 2002)

PROPOSAL FOR AMENDMENTS TO ANNEX A OF ADR AND TO RID

Report of the Working Group on Chapter 3.4: Limited Quantities
(Bern, 6-7 September 2001)

Transmitted by the Government of Switzerland */

Documents discussed :

TRANS/WP15/AC.1.2000/5 (revised) (INF.36 from the May 2001 Joint Meeting session)
TRANS/WP15/AC.1.2001/22 (section 3.4.4 c)
.OCTI/RIDGT/-III/2001-A(point 54 of report);
TRANS/WP-15/AC.1/84
TRANS/WP15/AC.1.2001/38.
2 information papers for the September 2001 Joint Meeting session (United Kingdom)
Revised INF.36 (Switzerland)

At the Joint Meeting session held in Bern from 28 May to 1 June 2001, the Government of Switzerland introduced a new informal document INF.36 dealing with the problem of Limited Quantities, which is a revised edition of document TRANS/WP.15/AC.1/2000/5. During this discussion, it was decided, that a working group should be mandated to resolve the open questions.

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Therefore, the Government of Switzerland organized a working group session in Bern on 6-7 September 2001 to which the Joint Meeting delegations were invited. The following countries were represented: France, Germany, Switzerland, United Kingdom. In addition, the following non-governmental organizations participated: UIC, AISE, SGCI. The meeting was opened by Mr. Gilabert, Swiss Ministry of Transport, who was elected as Chairman of this working group.

Introduction

The provisions for the carriage of dangerous goods in limited quantities were taken over from the 1999 versions of RID or ADR and were included in a new chapter 3.4: "*Exemptions related to dangerous goods packed in limited quantities*". Under marginals 2X01a of each class in the 1999 version, the maximum allowed mass **per inner package** (net mass) and the maximal allowed **total gross mass per package** in combination packagings or in shrink-wrapped or stretch-wrapped trays were listed. In most cases the total gross mass of the package or tray was indicated.

These masses were integrated into Table 3.4.6 of the restructured RID and ADR, respectively. However, some of these maximum contents in columns 3 and 5 of Table 3.4.6 are gross masses and some are net masses. The titles of these columns lead to confusion and to misinterpretation.

Paragraph 3.4.5 b) indicates:..... "*The maximum quantity per inner packaging and per package, prescribed for the relevant code in the table in 3.4.6 (in the second and third column in the case of combination packagings, and in the fourth and fifth column in the case of shrink-wrapped or stretch-wrapped trays), are not exceeded;*". From this it would seem to be clear that the contents indicated in columns 3 and 5 are **maximum allowed net masses per package**.

The informal working group addressed the problems of the lack of the total gross mass of the package which may not be exceeded in any case, as well as the fact that some of these maximum contents in columns 3 and 5 of Table 3.4.6 are gross masses and some are net masses. If these masses or volumes are interpreted as gross masses it would considerably tighten up the provisions. The group considered the solution proposed in document 2001/38 as too complex. The group concluded that there should be an overall maximum gross mass for limited quantity packages.

The group discussions resulted in a proposed revised Chapter 3.4 (see annex). In addition some consequential changes to Table A of Chapter 3.2 are proposed (see below).

UN Nos 2315, 3151 and 3152

The working group addressed the specific problems of these UN numbers. The following modifications are proposed:

1. Add a new line for **UN 2315 for solids in Table A of Chapter 3.2**. The column entries will be the same as for UN 3152. Existing entry for UN 2315 should include the word "liquid" after the PSN in column 2.
2. Changes in Table A of Chapter 3.2:

UN 2315 Column 7: replace LQ 29 by LQ 26

UN 3151 Column 7: replace LQ 29 by LQ 26

UN 3152 Column 7: replace LQ 29 by LQ 25

AnnexProposed revised chapter 3.4

CHAPTER 3.4

EXEMPTIONS RELATED TO 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.
- [3.4.1.2](#) [The maximum gross mass of a combination package shall not exceed 30 kg and for shrink and stretched wrapped trays shall not exceed 20 kg](#)
- [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 interact dangerously in the event of leakage.](#)
- 3.4.2 When the code "LQ0" is shown in Column (7) 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 Annexes A and B when it is packed in limited quantities, unless otherwise specified in these Annexes.
- 3.4.3 Unless otherwise provided in this Chapter, when one of the codes "LQ1" or "LQ2" is shown in Column (7) of Table A in Chapter 3.2 for a given substance or article, the provisions of other Chapters of ADR do not apply to the carriage of that substance or article, provided:
- The provisions of 3.4.5 (a) to (c) are observed; with respect to these provisions, articles are considered to be inner packagings;
 - Inner packagings meet the conditions of 6.2.1.2 when "LQ1" is shown, and the conditions of 6.2.1.2, 6.2.4.1 and 6.2.4.2 when "LQ2" is shown.
- 3.4.4 Unless otherwise provided in this Chapter, when one of the codes "LQ3", "LQ20", [or "LQ21" or "LQ29"](#) is shown in Column (7) of Table A in Chapter 3.2 for a given substance, the provisions of other Chapters of ADR do not apply to the carriage of that substance, provided:
- 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
- (b) The maximum quantity 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. ~~prescribed for the relevant code in the second and third column of the table in 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"¹.

These markings shall be displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm x 100 mm. The width of the 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 dimensions 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 (7) of Table A in Chapter 3.2 for a given substance, the provisions of other Chapters of ADR 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 quantity 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. ~~The maximum quantity per inner packaging and per package, prescribed for the relevant code in the table in 3.4.6 (in the second and third column in the case of combination packagings, and in the fourth and fifth column in the case of shrink-wrapped or stretch-wrapped trays), are not exceeded;~~
- (c) Each package is clearly and durably marked as indicated in 3.4.4 (c).

¹ 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 ^a <u>Maximum net mass/ volume</u>		Inner packagings placed in shrink-wrapped or stretch-wrapped trays ^a <u>Maximum net mass/ volume</u>	
	<u>Per Inner packaging Maximum contents</u>	<u>Per Package^b Maximum-gross-mass (kg) / contents (l)</u>	<u>Per Inner packaging Maximum contents</u>	<u>Per Package^b Maximum-gross-mass (kg) / contents (l)</u>
LQ0	No exemption under the conditions of 3.4.2.			
LQ1	120 ml	30 kg	120 ml	20 kg
LQ2	1 l	30 kg	1 l	20 kg
LQ3 ^{ac}	500 ml	1 l	Not allowed	Not allowed
LQ4	3 l	12 l	1 l	12 l and 20 kg
LQ5	5 l	-To be decided by Jt. Mting 30kg or no limit ?	1 l	20 kg
LQ6 ^{ac}	5 l	20 l	1 l	20 l and 20 kg
LQ7 ^{ac}	5 l	45 l	5 l	20 kg
LQ8	3 kg	12 kg	500 g	12 kg
LQ9	6 kg	24 kg	3 kg	20 kg
LQ10	500 ml	30 kg	500 ml	20 kg
LQ11 ^b	500 g	30 kg	500 g	20 kg
LQ12	1 kg	30 kg	1 kg	20 kg
LQ13	1 l	30 kg	1 l	20 kg
LQ14 ^b	25 ml	30 kg	25 ml	20 kg
LQ15 ^b	100 g	30 kg	100 g	20 kg
LQ16 ^b	125 ml	30 kg	125 ml	20 kg
LQ17	500 ml	2 l 2 l	100 ml	2 l
LQ18	1 kg	4 kg 4 kg	500 g	4 kg
LQ19	3 l	12 l	1 l	12 l and 20 kg
LQ20	100 ml	400 ml 400 ml	Not allowed	Not allowed
LQ21	500 g	2 kg 2 kg	Not allowed	Not allowed
LQ22	1 l	4 l	500 ml	4 l and 20 kg
LQ23	3 kg	12 kg	1 kg	12 kg
LQ24	6 kg	24 kg	2 kg	20 kg
LQ25 ^d	1 kg	4 kg	1 kg	20 kg
LQ26 ^d	500 ml	2 l 2 l	500 ml	2 l
LQ27	6 kg	24 kg	6 kg	20 kg
LQ28	3 l	12 l	3 l	12 l and 20 kg
LQ29	500 ml (per apparatus) if packed in leakproof packagings and conforming to 3.4.4 (e) only	2 l if packed in leakproof packagings and conforming to 3.4.4 (e) only	Not allowed	Not allowed

^a See section 3.4.1.2

^b See section 3.4.1.3

^{a-c} 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.

- ~~^b For Class 5.2 these quantities of substances may be packed together with other articles or substances, provided they will not interact dangerously in the event of leakage.~~
- ^d For UN numbers 2315, 3151 and 3152 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.
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