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Working Party on the Transport
of Dangerous Goods

Joint Meeting of the RID Safety Committee
and the Working Party on the Transport of
Dangerous Goods
(Geneva, 14-24 March 2000)

RESTRUCTURING OF RID/ADR

Comments on Chapter 3.4

Limited quantities

Transmitted by the Government of Switzerland

Summary: We propose a number of amendments to Chapter 3.4.

Related documents: TRANS/WP.15/AC.1/OCT98, TRANS/WP.15/AC.1/1999/8,
TRANS/WP.15/AC.1/1999/21, TRANS/WP.15/AC.1/1999/3/Rev.1,
TRANS/WP.15/AC.1/1999/37, TRANS/WP.15/AC.1/1999/10,
Annex B, Part I

* Distributed by the Central Office for International Carriage by Rail (OCTI) under the symbol OCTI/RID/GT-III/2000/5.

We have gone over document TRANS/WP.15/AC.1/1999/8 again and introduced our proposed amendments.

The amendments are indicated as follows:

Underlined text is text which has been added.

Scored-out text is text which has been deleted.

Where necessary, we have put the justifications in bold type.

The proposed amendments are based on RID/ADR 1999.

Where the chapter of the restructured RID/ADR was not known we have given the current RID/ADR marginal.

DANGEROUS GOODS PACKED IN LIMITED QUANTITIES

CHAPTER 3.4

3.4.1 When one of the codes LQ 1 to LQ 29 is shown in column (7) of Table A of Chapter 3.2 for a given substance or article, neither the provisions of this Annex nor those of Annex B apply/The requirements of RID do not apply - to the transport of that substance or article, except as follows:

- Classification - Chapter 2
- Classification of a non-radioactive substance - marginal 2002(11) of ADR/marginal 3(2) of RID
- Use of overpacks - subsection 5.1.2
- Marking of salvage packagings - 5.2.1.3
- Documentation - subsection 5.4 (RID only)
- Use of salvage packagings - §• 4.1.1.15
- Special provisions for salvage packagings - 5.4.1.1.6
- Mixed packing - marginal 2002(6), (7), end of the sentence after “and” (ADR)/marginal 8 RID
- Exclusion from carriage - marginal 2002(10) ADR/marginal 3(1) RID
- Training of personnel - marginal 2002(15) ADR
- Full load - marginal 2005 ADR
- Applicability of other regulations - section 1.1.4
- Obligation to carry goods in trains - marginal 12 RID
- Piggybacking requirements - marginal 15 RID
- Exemptions relating to the nature of the transport operation - 1.1.3.1
- Exemptions relating to agreements - marginal 2010
- Container packing certificate - section 5.4.2

- Transitional periods - marginal 2011 ADR/marginal 18 RID
- Other requirements - marginal 10 599 ADR.

Provided that:

Justification

The conditions listed above can currently be found in the definitions and general provisions of RID/ADR. The texts concerning exemptions from the (2)XX1a marginals differ in ADR and RID:

For ADR: “... shall not be subject to the conditions for this class contained in this Annex and in Annex B ...”

For RID: “... are not subject to the requirements of Section 2, 'Conditions of carriage'.

The two texts indicate clearly that only the requirements for the class in question are not applicable, which means that the general provisions are applicable.”

The requirements referred to above and currently to be found in Part I of Annex A of ADR and RID do therefore apply to carriage under the conditions of the (2)XX1a marginals - Chapter 3.4.

However, different interpretations have been made of these derogations. The work of restructuring enables them to be presented and suppressed where necessary. We can give the following examples:

Transport document and particulars in the transport document - fifth, eighth and ninth dashes:

It can be seen that WP.15 has interpreted these derogations differently as regards the need for a transport document. This is reflected above in the fifth and eighth dashes for the documentation and the particulars in the transport document for mixed packing. It might be necessary for the Joint Meeting to take a clear stand on this difference of interpretations which cannot be easily justified. Chapter 3.4 provides an opportunity.

Last dash and marginal 10 599 of ADR

The sentence in the 2XX1a marginals of ADR waiving the conditions of Annex B has always been interpreted as a general derogation from those conditions. The case of marginal 10 599, however, has been neglected. This marginal is to be found in the “General provisions” section of Annex B and concerns provisions other than those of ADR relating to safety measures or prohibitions applicable to international transport operations on using certain structures such as bridges or tunnels or certain routes or relating to restrictions on certain days of the week. In practice, these provisions have been applied to all dangerous goods regardless of quantity or type of packaging and without taking into

account whether or not such operations were performed under the conditions of the 2XX1a marginals. WP.15 should take a decision on whether it is advisable to maintain the status quo and on the square brackets round the last dash.

It is probable that the list of applicable requirements given above is not exhaustive. It should be studied in order to define which requirements are applicable in the case of transport operations performed under the conditions of Chapter 3.4.

- (1) the substance or article is packed in limited quantity either in inner packagings contained in combination packagings or in metal or plastics inner packagings, which are not liable to break or are not easily perforated, carried in shrink-wrapped or stretch-wrapped trays, where the wrapping acts as an inner packaging, and the maximum quantities prescribed in 3.4.2 per inner packaging and per package are not exceeded;
- (2) in the case of combination packagings, the outer packaging used is authorized according to the packing instruction applicable to the transport of that substance or article;
- (3) the “general conditions of packing” of [4.1.1.1 (1), (2) and (5) to (7)] are observed and for Class 2, the receptacles meet the conditions of [marginal 2202] and, in addition for UN 1950 and UN 2037, those of [marginals 2207 and 2208].
- (4) Each package is clearly and durably marked with:
 - (a) the UN number of the goods shown on the transport document, preceded by the letters “UN”;
 - (b) 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. [(See 5.2....)].

3.4.2 These markings shall be displayed within a diamond-shaped area surrounded by a line that measures at least 100 mm x 100 mm. If the size of the package so requires, the dimensions may be reduced provided that the markings remain clearly visible. When the code “LQ 0” is shown in column (7) of Table A of Chapter 3.2 for a given substance or article, that substance or article packed in limited quantities is not exempted from any of the applicable provisions of Annexes A and B, unless otherwise specified in these annexes.

¹ The letters “LQ” are an abbreviation of the English words “Limited Quantities”.

@(2)301a(2)@

NOTE 1:(to LQ 3 and LQ 6) *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.*

@(2)551a(1)@

NOTE 2: (to LQ 11, 14, 15, 16) *For Class 5.2 these quantities of substances may be packed together with other articles or substances provided that they will not interact dangerously in the event of leakage.*

The following are considered dangerous reactions:

(This already appears in Part I)?

- (a) combustion and/or giving off considerable heat;*
- (b) emission of flammable and/or toxic gases;*
- (c) formation of corrosive liquids;*
- (d) formation of unstable substances*

Code	Combination packagings		Metal or plastics inner packaging carried in shrink-wrapped or stretch-wrapped trays		Applicable to: (Editorial note: this column is included for reference only; it will be deleted from the final version)
	Inner packaging Maximum contents	Package Maximum gross mass/ contents	Inner packaging Maximum contents	Package Maximum gross mass/ contents	
LQ 0	No exemption under the conditions of 3.4.1.				<p>Class 3: UN 3064, UN 1204; Substances having a flashpoint below 23 °C and toxic (11°-19°); Substances having a flashpoint below 23°C, toxic and corrosive and articles containing those substances (27°-28°) 61° (c)</p> <p>Class 4.1: Substances with a corrosive or toxic subsidiary risk, molten substances, self-reactive and related substances and desensitized explosives)</p> <p>Class 6.1: highly toxic substances having a flash-point below 23 °C, oxygenated substances having a flashpoint between 23 °C and 61 °C inclusive (UN 2521, UN 1199), organic lead compounds (UN 1649), preparations of phosphides containing additives inhibiting the emission of flammable, toxic gases (UN 3048), osmium compounds (UN 2471))</p> <p>Class 8: hydrogen fluoride and hydrofluoric acid solutions with more than 85% hydrogen fluoride (UN 1052, UN 1790) , bromine or bromine solutions (UN 1744), inorganic acid substance in molten form (UN 2576), batteries (UN 2794, UN 2795, UN 2800, UN 3028), other articles containing corrosive substances (UN 1774, UN 2028))</p> <p>Class 9: apparatus such as transformers, condensers and apparatus containing UN 2315, 3151 or 3152 and mixtures thereof, lithium batteries (UN 3090, UN 3091), life-saving appliances (UN 2990, UN 3072), motor vehicle components (UN 3268), genetically modified microorganisms (UN 3245), genetically modified organisms, elevated temperature substances (UN 3257))</p>
LQ 1	120ml	30kg	120ml	20kg	Class 2: Gases of 1°A, 2°A, 3°A, 4°A, 5°T, Articles of 5°TF, 5°TC, 5°TO, 5°TFC, 5°TOC
LQ 2	1000ml	30kg	1000ml	20kg	Class 2: Articles of 5°A, 5°O, 5°F
LQ 3	500ml	11	not allowed	not allowed	Class 3: PG I except LQ 0
LQ 4	31	121	1 l (metal)/500 ml (plastics)	12 litres and 20 kg	Class 3: PG II except LQ 0, LQ 5 and LQ 6
LQ 5	51	[no value given]	1 l (metal)/500 ml (plastic)	20 kg	Class 3: UN 3065 (containing more than 70% alcohol by volume); PG II
LQ 6	51	201	1 l (metal)/500 ml (plastics)	20 litres and 20 kg	Class 3: UN 1133, 1139, 1169, 1197, 1210, 1263, 1266, 1286, 1287, 1306, 1866, 1999, 3269; PG II
LQ 7	51	451	51	20 kg	Class 3: PG III (except LQ 0)

Code	Combination packagings		Metal or plastics inner packaging carried in shrink-wrapped or stretch-wrapped trays		Applicable to: (Editorial note: this column is included for reference only; it will be deleted from the final version)
	Inner packaging Maximum contents	Package Maximum gross mass/ contents	Inner packaging Maximum contents	Package Maximum gross mass/ contents	
LQ 8	3 kg	12 kg	500 g	12 kg and 20 kg	Class 4.1: PG II (except LQ 0)
LQ 9	6 kg	24 kg	3 kg	20 kg	Class 4.1: PG III (except LQ 0) Class 6.1: PG III (except LQ 0) solids
LQ 10	500 ml	30 kg	500 ml	20 kg	Class 4.3: PG II liquids Class 5.1: PG II liquids
LQ 11	500 g	30 kg	500 g	20 kg	Class 4.3: PG II solids except UN 1396 Class 5.1 PG II solids Class 5.2: UN 3106, UN 3108, UN 3110
LQ 12	1 kg	30 kg	1 kg	20 kg	Class 4.3: UN 1396, PG III solids Class 5.1 PG III solids
LQ 13	1 l	30 kg	1 l	20 kg	Class 4.3: PG III liquids Class 5.1: PG III liquids
LQ 14	25 ml	30 kg	25 ml	20 kg	Class 5.2: UN 3101, UN 3103
LQ 15	100 g	30 kg	100 g	20 kg	Class 5.2: UN 3102, UN 3104
LQ 16	125 ml	30 kg	125 ml	20 kg	Class 5.2: UN 3105, UN 3107, UN 3109
LQ 17	500 ml	2 l	100 ml	2 l	Class 6.1: PG II (except LQ 0.) liquids
LQ 18	1 kg	4 kg	500 g	4 kg	Class 6.1: PG II (except LQ 0.) solids
LQ 19	3 l	12 l and 20 kg	1 l	12 l and 20 kg	Class 6.1: PG III (except LQ 0) liquids Class 8 PG III (except LQ 0) liquids
LQ 20	100 ml	400 ml	not allowed	not allowed	Class 8: PG I (except LQ 0) liquids
LQ 21	500 g	2 kg	not allowed	not allowed	Class 8: PG I (except LQ 0) solids
LQ 22	1 l	4 l	500 ml	4 l and 20 kg	Class 8: PG II (except LQ 0) liquids
LQ 23	3 kg	12 kg	1 kg	12 kg and 20 kg	Class 8: PG II (except LQ 0) solids
LQ 24	6 kg	24 kg	2 kg	20 kg	Class 8 PG III (except LQ 0) solids
LQ 25	1 kg	4 kg	1 kg	20 kg	Class 9: PG II (except LQ 0) solids
LQ 26	500 ml	2 l	500 ml	2 l and 20 kg	Class 9: PG II (except LQ 0) liquids
LQ 27	6 kg	24 kg	6 kg	20 kg	Class 9: PG III (except LQ 0) solids
LQ 28	3 l	12 l	3 l	12 l and 20 kg	Class 9: PG III (except LQ 0) liquids
LQ 29	500 ml (per apparatus) If packed in leakproof packagings and conforming to 3.4.1 (4) only	2 l If packed in leakproof packagings and conforming to 3.4.1 (4) only	not allowed	not allowed	Class 9: UN 2315, 3151 or 3152
