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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

REPORT OF THE SESSION*/

held in Geneva from 10 to 14 September 2001

Addendum 1

Annex 1: Texts adopted by the Joint Meeting

**Corrections to document TRANS/WP.15/AC.1/84/Add.1 and draft amendments to
Parts 1, 2, 3, 5 and 7 to 9 of the restructured RID/ADR**

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CORRECTIONS TO DOCUMENT TRANS/WP.15/AC.1/84/Add.1

PART 1

- 1.1.3.6.3 In the table, under transport category 4, insert "Class 6.2: UN No. 3373" and, under Class 9, insert "and 3359".
- 1.2.2.2 (c), 2.2.2.1.2 and 2.2.2.2.2
[Doesn't apply to the English version]
- 1.2.1 "*Test pressure*" the mentioned amendment applies only to the beginning of the definition, the existing text in brackets and the note remain unchanged.
- Working pressure* , add a Note to this new definition to read as follows:
"**NOTE:** For tanks, see "*Maximum working pressure*"."

PART 2

- 2.1.1.3 Delete "(are)".
- 2.2.41.1.18 Replace the proposed amendment with the following one: "Add 3364, 3365, 3366, 3367, 3368, 3369, 33370 to the list of UN Nos. and delete last sentence."
- 2.2.41.4 [Doesn't apply to the English version].
- 2.2.52.4 [Doesn't apply to the English version].

PART 3

- 3.1.2 [Doesn't apply to the English version].
- 3.1.2.6 (a) Replace "special provisions of Chapter 9.6" with "requirements of Chapter 9.6" and insert "packing instruction" before "IBC520".
- 3.1.2.7 Replace "included" with "carried".
- 3.1.2.8.1 Replace "their technical or chemical group name" with "the technical or chemical group name" and delete "[PG]".

Table A of Chapter 3.2

- UN Nos. 1372, 1387, 1856, 1857 and 3363
[Doesn't apply to the English version].
- UN No. 2030 Entry of packing group II , in column (11), delete once "TP13" which appears twice.
- UN No. 2030 Entry of packing group III , in column (6), replace "330" with "530".
- UN No. 2469 Replace the proposed amendment with: "Delete "B4" in column (9a)"
- UN No. 2478 [Doesn't apply to the English version]

- UN No. 2672 Delete the proposed amendment.
- UN No. 2907 Replace the proposed amendment with: "Add "B12" and "PP80" in column (9a)"
- UN No. 3363 Insert "M11" in column (3b) and "[see also 1.1.3.1 (b)]" after "NOT SUBJECT TO RID/ADR".
- UN No. 3372 [Doesn't apply to the English version].
- UN No. 3375 In column (3b), replace "02" with "01".
- UN No. 3376 In column (16), insert "W1/V1".

Chapters 3.3 and 3.4

- SP 188 (b) [Doesn't apply to the English version].
- SP 193 Replace "nitrogen phosphate" with "nitrogen/phosphate".
- SP 196 [Doesn't apply to the English version].
- SP 216 Delete "the requirements of".
- SP 230 [Doesn't apply to the English version].
- SP 235 [Doesn't apply to the English version].
- SP 242 Applies only to ADR, thus delete "[RID]/".
- SP 280 [Doesn't apply to the English version].
- SP 301 In the first sentence, replace "containing dangerous substances " with "containing dangerous goods". In the fifth sentence, replace "dangerous substance" with "dangerous good". In the seventh sentence replace "regulation" with "ADR/RID".
- SP 302 Amend the beginning of last sentence to read "Fumigated vehicles / wagons, containers and tanks are only...".
- SP 304 [Doesn't apply to the English version].
- SP 307 (a) [Doesn't apply to the English version].
- SP 309 [Doesn't apply to the English version].
- SP 310 [Doesn't apply to the English version]
- 3.4.7 [Doesn't apply to the English version].

**AMENDMENTS TO
PARTS 1, 2, 3, 5 AND 7 TO 9 OF THE RESTRUCTURED RID/ADR**

PART 1

1.1.3.6.3

In the table

For transport category 1, under Class 2, add: "aerosols: groups T, TF, TC, TO, TFC and TOC".

[NOTE: The Joint Meeting may wish to consider whether these substances should be assigned to transport category 2 rather than 1 as presently, since the aerosols contain toxic liquids/solids rather than toxic gases and such substances are usually assigned to category 2].

For transport category 2, under Class 2, add "aerosols: groups F, FC [, C and CO]".

For transport category 3, under Class 2, add: "aerosols: groups A, [C], O and [CO]".

1.6.3.20 and 1.6.4.13 Amend as follows:

(ADR) "[Fixed tanks (tank-vehicles) and demountable tanks /Tank-containers

(RID) [Tank-wagons / Tank-containers

constructed before 1 July 2003 in accordance with the requirements in force up to 31 December 2002 but which do not, however, conform to the requirements of 6.8.2.1.7 and special provision TE15 of 6.8.4 (b) applicable as from 1 January 2003 may still be used.]".

1.8.5.1

Amend to read as follows:

"..., the carrier [RID only: and if the case be, the railway infrastructure operator] shall ensure that a report conforming to the model prescribed in 1.8.5.4 is made to the competent authority of the Contracting Party / Member State concerned."

1.8.5.3

Add the following new paragraph:

"An occurrence subject to report in accordance with 1.8.5.1 has occurred if dangerous goods were released or if there was an imminent risk of loss of product, if personal injury, material or environmental damage occurred, or if the authorities were involved and one or more of the following criteria has/have been met:

Personal injury means an occurrence in which death or injury directly relating to the dangerous goods carried has occurred, and where the injury

- (a) requires intensive medical treatment, or
- (b) requires a stay in hospital of at least one day, or
- (c) results in the inability to work for at least three consecutive days.

Loss of product means the release of dangerous goods

- (a) of transport category 0 or 1 in quantities of 50 kg / 50 l or more,
- (b) of transport category 2 in quantities of 333 kg / 333 l or more, and
- (c) of transport category 3 or 4 in quantities of 1000 kg / 1000 l or more.

The loss of product criterion also applies if there was an imminent risk of loss of product in the above-mentioned quantities. As a rule, this has to be assumed if, owing to structural damage, the means of containment is no longer suitable for further carriage or if, for any other reason, a sufficient level of safety is no longer ensured (e.g. owing to distortion of tanks or containers, overturning of a tank or fire in the immediate vicinity).

If dangerous goods of Class 6.2 are involved, the obligation to report applies without quantity limitation.

In occurrences involving Class 7 material, the criteria for loss of product are:

- (a) Any release of radioactive material from the packages;
- (b) Exposure leading to a breach of the limits set out in the regulations for protection of workers and members of the public against ionizing radiation (Schedule II of IAEA Safety Series No. 115 – "International Basic Safety Standards for Protection Against Ionizing Radiation and for Safety of Radiation Sources");
- (c) Where there is reason to believe that there has been a significant degradation in any package safety function (containment, shielding, thermal protection or criticality) that may have rendered the package unsuitable for continued carriage without additional safety measures.

NOTE: See the requirements of 7.5.11 CV33/CW33 (6) for undeliverable consignments.

Material damage or environmental damage means the release of dangerous goods, irrespective of the quantity, where the estimated amount of damage exceeds 50,000 EURO. Damage to any directly involved means of transport containing dangerous goods and to the modal infrastructure shall not be taken into account for this purpose.

Involvement of authorities means the direct involvement of the authorities or emergency services during the occurrence involving dangerous goods and the evacuation of persons or closure of public traffic routes (roads/railways) for at least three hours owing to the danger posed by the dangerous goods.

If necessary, the competent authority may request further relevant information."

1.8.5.4 Add the following new paragraph:

"1.8.5.4 Model for report on occurrences during the carriage of dangerous goods

**Report on occurrences during the carriage of dangerous goods in accordance with RID/ADR
section 1.8.5**

Reporting carrier/ Reporting railway infrastructure operator:
Address:
Contact name: Telephone:..... Fax:.....

(The competent authority shall remove this cover sheet before forwarding the report!)

1. Mode	
<u>Rail</u> Wagon number (optional)	<u>Road</u> Vehicle registration (optional)
2. Location of occurrence	
<u>Rail</u> Station Shunting/marshalling yard Loading/unloading/transshipment site Location with country code and post code: or Open line description of line kilometres:	<u>Road</u> Built-up area Loading/unloading/transshipment site Location with country code and post code: or Road road name: kilometres:
3. Topography	
Gradient/incline Tunnel Bridge/Underpass Crossing	
4. Particular weather conditions	
Rain Snow Ice Fog Thunderstorm Storm Temperature: °C	
5. Description of occurrence	
Derailment/Leaving the road Collision Overturning/Rolling over Fire Explosion Loss Technical fault Additional description of occurrence:	

6. Dangerous goods involved						
UN Number ⁽¹⁾	Class	Packing Group	Estimated quantity of loss of products (kg or l) ⁽²⁾	Means of containment ⁽³⁾	Means of containment material	Type of failure of means of containment ⁽⁴⁾
⁽¹⁾ For dangerous goods assigned to collective entries to which special provision 274 applies, also the technical name shall be indicated.				⁽²⁾ For Class 7, indicate values according to the criteria in 1.8.5.3.		
⁽³⁾ Indicate the appropriate number 1 Packaging 2 IBC 3 Large packaging 4 Small container 5 Wagon 6 Vehicle 7 Tank-wagon 8 Tank-vehicle 9 Battery-wagon 10 Battery-vehicle 11 Wagon with demountable tanks 12 Demountable tank 13 Large container 14 Tank-container 15 MEGC 16 Portable tank				⁽⁴⁾ Indicate the appropriate number 1 Loss 2 Fire 3 Explosion 4 Structural failure		
7. Cause of occurrence (if clearly known)						
Technical fault Load security Operational cause (rail operation) Other:						
8. Consequences of occurrence						
<u>Personal injury in connection with the dangerous goods involved:</u> Deaths (number:) Injured (number:) <u>Loss of product:</u> Yes No Imminent risk of loss of product <u>Material/Environmental damage</u> Estimated level of damage ≤ 50,000 EURO Estimated level of damage > 50,000 EURO <u>Involvement of authorities:</u> Yes Evacuation of persons for a duration of at least three hours caused by the dangerous goods involved Closure of public traffic routes for a duration of at least three hours caused by the dangerous goods involved No						

If necessary, the competent authority may request further relevant information.

PART 2

2.2.2.1.3 In the first line, insert "(except aerosols)" after "articles".

Amend NOTE 2 to read as follows:

"NOTE 2: Receptacles, small containing gas (UN No. 2037) shall be assigned to the groups A to TOC according to the hazard of the contents. For aerosols (UN No. 1950), see 2.2.2.1.6."

2.2.2.1.5 In the first line, insert "(except aerosols)" after "articles".

In the paragraphs for "Toxic gases" and "Corrosive gases", under the definitions of "T_i" and "T_{c_i}" replace "ISO 10298:1995" with "P200 of 4.1.4.1" (four times).

2.2.2.1.6 Add the following new paragraph 2.2.2.1.6.

"2.2.2.1.6 Aerosols

Aerosols (UN No. 1950) are assigned to one of the following groups according to their hazardous properties, as follows:

A: asphyxiant;
O: oxidizing;
F: flammable;
T: toxic;
C: corrosive;
CO: corrosive, oxidizing;
FC: flammable, corrosive;
TF: toxic, flammable;
TC: toxic, corrosive;
TO: toxic, oxidizing;
TFC: toxic, flammable, corrosive
TOC: toxic, oxidizing, corrosive.

The classification depends on the nature of the contents of the aerosol dispenser.

NOTE: Gases, which meet the definition of toxic gases according to 2.2.2.1.5 or of pyrophoric gases according to packing instruction P200 in 4.1.4.1, shall not be used as a propellant in an aerosol dispenser. Aerosols with contents meeting the criteria for packing group I for toxicity or corrosivity shall not be accepted for carriage (see also 2.2.2.2.2).

The following criteria shall apply:

- (a) Assignment to group A shall apply when the contents do not meet the criteria for any other group according to sub-paragraphs (b) to (f) below;
- (b) Assignment to group O shall apply when the aerosol contains an oxidizing gas according to 2.2.2.1.5;
- (c) Assignment to group F shall apply if the contents include more than 45% by mass, or more than 250 g of flammable components. Flammable components are gases which are flammable in air at normal pressure or substances or preparations in liquid form which have a flash point less than or equal to 100 °C;

- (d) Assignment to group T shall apply when the contents, other than the propellant of aerosol dispensers to be ejected, are classified as class 6.1, packing groups II or III;
- (e) Assignment to group C shall apply when the contents, other than the propellant of aerosol dispensers to be ejected, meet the criteria for Class 8, packing groups II or III;
- (f) When the criteria for more than one group amongst groups O, F T, and C are met, assignment to groups CO, FC, TF, TC TO, TFC or TOC shall apply, as relevant."

2.2.2.2.2

Add:

- "- Aerosols where gases which are toxic according to 2.2.2.1.5 or pyrophoric according to packing instruction P200 in 4.1.4.1 are used as propellants;
- Aerosols with contents meeting the criteria for packing group I for toxicity or corrosivity (see 2.2.61 and 2.2.8);
- Receptacles, small, containing gases which are very toxic (CL₅₀ lower than 200 ppm) or pyrophoric according to packing instruction P200 in 4.1.4.1."

2.2.2.3

In the heading of the fifth table, replace "Gases, dissolved under pressure" with "Dissolved gases".

2.2.61.1.7

In Note a to the table replace "Tear gases" with "Tear gas substances".

2.2.61.1.8

In the table, packing group column, add superscript "a" after "III" with a corresponding note to the table to read as follows:

- "^a Tear gas substances shall be included in packing group II even if data concerning their toxicity correspond to packing group III criteria."

PART 3**Chapter 3.2**

3.2.1

In the text for Column (9a), under the second bulleted point, insert "or the letters "BB"", after "the letter "B"" (twice).

Table A of Chapter 3.2

Whenever special provision 640 appears in Column (6), replace it by one of the following special provisions "640A" to "640J", as relevant, depending on the properties of the entry, as described below:

- 640A: For substances of PG I, with a vapour pressure at 50 °C more than 175 kPa;
- 640B: For substances of PG I, with a vapour pressure at 50 °C more than 110 kPa but not more than 175 kPa;
- 640C: For substances of PG II, with a vapour pressure at 50 °C more than 110 kPa but not more than 175 kPa;
- 640D: For substances of PG II, with a vapour pressure at 50 °C not more than 110 kPa;

- 640E: For substances of PG III, non viscous;
- 640F: For substances of PG III, viscous, having a flash-point below 23 °C, with a vapour pressure at 50 °C more than 175 kPa;
- 640G: For substances of PG III, viscous, having a flash-point below 23 °C, with a vapour pressure at 50 °C more than 110 kPa but not more than 175 kPa;
- 640H: For substances of PG III, viscous, having a flash-point below 23 °C, with a vapour pressure at 50 °C not more than 110 kPa;
- 640I: For UN No. 1790, entry with more than 85%hydrofluoric acid;
- 640J: For UN No. 1790, entry with more than 60% but not more than 85% hydrofluoric acid.

In column (9a), replace "B12" with "BB1" whenever "IBC01" is assigned in column (8).

In column (9a), replace "B11" with "BB2" whenever "IBC02" is assigned in column (8).

In column (13), delete TE2 whenever it appears.

In column (13), insert TE15 whenever L4BH or SGAH are assigned in column (12).

In column (13), insert TE21 whenever TU14 assigned in the same column.

[In column (16), insert "V8" for all substances the proper shipping name of which includes the word "STABILIZED" (ADR only).]

In column (16), insert V10/W10 whenever B1 is assigned in column (9a), except when V1/W1 is already assigned.

In column (16), insert V11/W11 whenever B2 is assigned in column (9a), except when V1/W1 is already assigned.

In column (9a), delete B1 and B2 whenever they appear.

In column (16), insert V12/W12 whenever IBC06 or IBC07 are assigned in column (8).

In column (19), insert "S4" for all substances the proper shipping name of which includes the word "STABILIZED" (ADR only)].

UN No.	Column No.	Corrections
0333, 0334, 0335, 0336 and 0337	(6)	Insert "645"
1008, 1859, 1962, 1982 (twice), 2036, 2193, 2203, 2417 and 2451	(2)	Delete "compressed"
1008, 1859 and 2417	(3b)	Replace "1TC" with "2TC"
1361, 2213 and 3077	(16)	Insert "V13/W13"
1614	8	Replace "P200" with "P601"
1950, classification code 5A	(2)	Add: ", asphyxiant"
1950, classification code 5F	(2)	Add: ", flammable"
1950, classification code 5O	(2)	Add: ", oxidizing"
1950, classification code 5T	(2)	Add: ", toxic"
1950, classification code 5T	(5)	Replace "2.3" by "2.2+6.1"
1950, classification code 5TC	(2)	Add: ", toxic, corrosive"
1950, classification code 5TC	(5)	Replace "2.3 + 8" by "2.2+6.1+8"
1950, classification code 5TF	(2)	Add: ", toxic, flammable"
1950, classification code 5TF	(5)	Replace "2.3+2.1" by "2.1+6.1"
1950, classification code 5TFC	(2)	Add: ", toxic, flammable, corrosive"
1950, classification code 5TFC	(5)	Replace "2.3+2.1+8" by "2.1+6.1+8"
1950, classification code 5TO	(2)	Add: ", toxic, oxidizing"
1950, classification code 5TO	(5)	Replace "2.3+5.1" by "2.2+6.1+5.1"
1950, classification code 5TOC	(2)	Add: ", toxic, oxidizing, corrosive"
1950, classification code 5TOC	(5)	Replace "2.3+5.1+8" by "2.2+6.1+5.1+8"
1962 and 2203	3b	Replace "1F" with "2F"
1982, 2036 and 2193	3b	Replace "1A" with "2A"

UN No.	Column No.	Corrections
2451	3b	Replace "10" with "20"
2983	8	Replace "P200" with "P001"
3130, packing groups I and II	9a	Replace "PP78" with "RR4"
3373	6	Delete "634"
3373	15	Delete "4"
3373	18	Delete "CV13"

Add the following three new entries for UN 1950:

(1)	(2)	(3a)	(3b)	(5)	(6)	(7)	(8)	(9b)	(15)	(18)	19 (ADR)	19 (RID)	20 (RID)
1950	AEROSOLS, corrosive	2	5C	2.2+ 8	190 625	LQ2	P204	MP9	[2] [3]	CV9/ CW9 CV12/ CW12		CE2	[28]
1950	AEROSOLS, corrosive, oxidizing	2	5CO	2.2+ 5.1+ 8	190 625	LQ2	P204	MP9	[2] [3]	CV9/ CW9 CV12/ CW12		CE2	[285]
1950	AEROSOLS, flammable, corrosive	2	5FC	2.1+ 8	190 625	LQ2	P204	MP9	2	CV9/ CW9 CV12/ CW12	S2	CE2	[238]

[NOTE: For UN No. 1950, suitability of S7 in column (17) for groups T, TC, TF, TFC, TO and TOC to be considered by WP.15].

Chapter 3.3

SP640

Amend to read as follows:

"The physical and technical characteristics mentioned in column (2) of Table A of Chapter 3.2 determine different conditions of carriage for the same packing group.

In order to identify these conditions of carriage, the following shall be added to the particulars required in the consignment note/transport document:

"**Special provision 640X**" where "X" is one of the capital letters A to J appearing after the reference to special provision 640 in column (6) of Table A of Chapter 3.2.

Provided that the above mentioned characteristics do not entail different hazard identification numbers in column (20), these particulars may, however, be dispensed with in the following cases:

- carriage in portable tanks;
- goods packed in accordance with P001;

- carriage in the type of tank which for a specific packing group of a specific UN number meets at least the most stringent requirements."

SP645

Add a new special provision to read as follows:

"645 The classification code as mentioned in Column (3b) of Table A of Chapter 3.2 shall be used only with the approval of the competent authority of a Member State to COTIF / a Contracting Party to ADR prior to carriage."

PART 5

Chapter 5.1

5.1.2.1 Renumber as 5.1.2.1.1 and amend to read as follows:

"5.1.2.1.1 An overpack shall be marked with the UN number preceded by the letters UN and shall be labelled as required for packages in 5.2.2, for each item of dangerous goods contained in the overpack, unless the markings and the labels representative of all dangerous goods contained in the overpack are visible. If the same marking or the same label is required for different packages, it only need to be applied once."

5.1.2.1.2 Insert the following new paragraph:

"5.1.2.1.2 Label No. 11 illustrated in 5.2.2.2.2 shall be displayed on two opposite sides of the following overpacks:

- overpacks containing packages which shall be labelled in accordance with 5.2.2.1.12, unless the labels remain visible, and
- overpacks containing liquids in packages which shall not be labelled in accordance with 5.2.2.1.12, unless the closures remain visible."

Chapter 5.2

5.2.2.2.1.2 Amend the beginning to read "Cylinders for Class 2..."

Add the following text at the end:

"Notwithstanding the provisions of 5.2.2.1.6, labels may overlap to the extent provided for by ISO 7225. However, in all cases, the primary risk label and the numbers appearing on any label shall remain fully visible and the symbols recognizable."

5.2.2.2.1.6 Add the following paragraph:

"(c) labels conforming to model No. 2.1 displayed on cylinders and gas cartridges for liquefied petroleum gases, where they may be shown in the background colour of the receptacle if adequate contrast is provided."

5.2.2.2.2 Amend the text under label model 2.1 to read as follows:

"(No. 2.1)

Flammable gases

Symbol (flame): black or white (except as provided for in 5.2.2.2.1.6 (c))

Background: red, Figure "2" in bottom corner".

Chapter 5.3

5.3.1.2 Add the following paragraph:
"When the MEGC, tank-container or portable tank has multiple compartments and carries two or more dangerous goods, the appropriate placards shall be displayed along each side at the position of the relevant compartments and one placard of each model shown on each side at both ends."

5.3.1.4 Add the following paragraphs:
"When the tank-vehicle, battery-vehicle or the demountable tank carried on the vehicle has multiple compartments and carries two or more dangerous goods, the appropriate placards shall be displayed along each side at the position of the relevant compartments and one placard of each model shown on each side at the rear of the vehicle. However, in such case, if all compartments have to bear the same placards, these placards need be displayed only once along each side and at the rear of the vehicle.

Where more than one placard is required for the same compartment, these placards shall be displayed adjacent to each other."

Chapter 5.4

- 5.4.1.1.1 (a) Add at the end "preceded by the letters "UN";".
- (b) Replace "(see 3.1.2.6)" with "(3.1.2.8)".
- (c) Amend to read as follows:
"- For substances and articles of Class 1: the classification code given in Column (3 b) of Table A in Chapter 3.2.

When, in Column (5) of Table A of Chapter 3.2, label model numbers other than 1, 1.4, 1.5 and 1.6 [for RID also 13 and 15], these label model numbers, in brackets, shall follow the classification code;

- For radioactive material of Class 7: see 5.4.1.2.5;

- For substances and articles of other classes: the label model numbers [for RID: apart from 13] given in Column (5) of Table A in Chapter 3.2. When more than one label model numbers are given, the numbers following the first one shall be given in brackets."
- (d) Amend to read "where assigned the packing group for the substance which may be preceded by the letters "PG" (e.g. "PG II");".
- (e) Delete. Renumber paragraph (f) to (j) to be (e) to (i).

Amend last paragraph to read as follows:
"The location and order in which the elements of information required appear in the transport document/consignment note is left optional, except that (a), (b), (c) and (d) shall be shown either in sequence (a), (b), (c), (d) or in sequence (b), (c), (a), (d) with no information interspersed, except as provided in RID/ADR. Examples of such permitted dangerous goods descriptions are:

**"UN 1098 ALLYL ALCOHOL, 6.1 (3), I" or
"ALLYL ALCOHOL, 6.1 (3), UN 1098, I"**

5.4.1.1.2 Add the following text:
"Although upper case is used in Chapter 3.1 and in Table A in Chapter 3.2 to indicate the elements which must be part of the proper shipping name, and although upper and lower case are used in this Chapter to indicate the information required in the transport document/consignment note, the use of upper or of lower case for entering the information in the transport document/consignment note is left optional."

5.4.1.1.3 Delete "ADR" / "RID" in the two examples at the end of the paragraph.

5.4.1.1.6 Amend the beginning of the first sentence to read:
"For empty means of containment, uncleaned, which contain the residue of dangerous goods of classes other than Class 7, the description..."

At the end of the first sentence delete "and the letters "ADR" or "RID"".

Delete "ADR" / "RID" in the two examples.

5.4.1.1.12 and

5.4.1.1.13 Add the following new paragraphs:

5.4.1.1.12 *Special provisions for the carriage of substances carried under elevated temperature*

If the proper shipping name of a substance which is carried or offered for carriage in a liquid state at a temperature equal to or exceeding 100 °C, or in a solid state at a temperature equal to or exceeding 240 °C, does not convey the elevated temperature condition (for example, by using the term "MOLTEN" or "ELEVATED TEMPERATURE" as part of the proper shipping name), the word "**HOT**" shall immediately precede the proper shipping name.

5.4.1.1.13 *Substances stabilized by temperature control*

If the word "STABILIZED" is part of the proper shipping name (see also 3.1.2.6), when stabilization is by means of temperature control, the control and emergency temperatures (see 2.2.41.1.17) shall be indicated in the transport document, as follows:

"Control temperature:°C Emergency temperature: °C".

5.4.1.2.1 Add the following paragraphs:

"(f) *(Reserved)* [Applies only to ADR]

(g) When fireworks of UN Nos. 0333, 0334, 0335, 0336 and 0337 are carried, the consignment note / transport document shall bear the inscription: "**Classification recognized by the competent authority of ...** (State referred to in special provision 645 of 3.3.1)".

- 5.4.1.2.3.1 Add the following references after "temperature control during carriage": "(for self-reactive substances see 2.2.41.1.17; for organic peroxides, see 2.2.52.1.15 to 2.2.52.1.17)".

Chapter 5.5

- 5.5.2 and 5.5.2.1 Replace "containers and vehicles / wagons" with "vehicles / wagons, containers and tanks" (twice).

- 5.5.2.2 Amend the beginning of the paragraph to read:
"A warning sign as specified in 5.5.2.3 shall be placed..."

Replace "container or vehicle / wagon" with "vehicle / wagon, container or tank" (twice).

- 5.5.2.3 Add a new paragraph to read:
"The fumigation warning sign shall be rectangular and shall not be less than 300 mm wide and 250 mm high. The markings shall be black print on a white background with lettering not less than 25 mm high. An illustration of this sign is given in the figure below."

PART 7

Chapter 7.2

- 7.2.3 (Reserved)

- 7.2.4 V8 (1) Replace "Organic peroxides and self-reactive substances" by "substances stabilized by temperature control".

Add at the end a NOTE as follows:

"NOTE: [This provision V8 is indicated in Table A of Chapter 3.2 for all substances the proper shipping name of which contains the word "STABILIZED". However it is not applicable] [This provision V8 does not apply to substances referred to in 3.1.2.6] when substances are stabilized by the addition of chemical inhibitors such that the SADT is greater than 50 °C. In this latter case, temperature control may be required under conditions of carriage where the temperature may exceed 55 °C."

- 7.2.4 Add the following new special provisions:
"V9 (Reserved) [ADR only]

V/W10 IBCs shall be carried in closed or sheeted vehicles/wagons or closed or sheeted containers.

V/W11 IBCs other than metal or rigid plastics IBCs shall be carried in closed or sheeted vehicles/wagons or closed or sheeted containers.

V/W12 IBCs of type 31HZ2 shall be carried in closed vehicles or containers.

V/W13 When packed in 5H1, 5L1 or 5 M1 bags, shall be carried in closed vehicles or containers."

Chapter 7.5

7.5.2.1 In the table:

Add "c" in the intersection of row "1.4" and column "9" and column "1.4" and row "9", and add at the end of the table a new "c" as follows:

^c *Mixed loading permitted between air bag inflators, or air bag modules, or seat-belt pretensioners of Division 1.4, compatibility group G, (UN No. 0503) and air bag inflators or air bag modules or seat-belt pretensioners of Class 9 (UN No. 3268)."*

Add "d" in the intersection of row "1" and column "5.1" and column "5.1" and row "1", and add at the end of the table a new "d" as follows:

^d *Mixed loading permitted between blasting explosives (except UN No. 0083 EXPLOSIVE, BLASTING, TYPE C) and ammonium nitrate and inorganic nitrates of Class 5.1 (UN Nos. 1942 and 2067) provided the aggregate is treated as blasting explosives under Class 1 for the purposes of placarding, segregation, stowage and maximum permissible load."*

PART 8

Chapter 8.5

S4

Add a NOTE as follows:

"NOTE: [This provision S4 is indicated in Table A of Chapter 3.2 for all substances the proper shipping name of which contains the word "STABILIZED". However it is not applicable] [This provision S4 does not apply to substances referred to in 3.1.2.6] when substances are stabilized by the addition of chemical inhibitors such that the SADT is greater than 50 °C. In this latter case, temperature control may be required under conditions of carriage where the temperature may exceed 55 °C."

PART 9

Chapter 9.6

Amend the title to read: "ADDITIONAL REQUIREMENTS CONCERNING COMPLETE OR COMPLETED VEHICLES INTENDED FOR THE CARRIAGE OF TEMPERATURE CONTROLLED SUBSTANCES"

9.6.1 Replace "self-reactive substances of Class 4.1 and organic peroxides of Class 5.2" with "substances".
