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**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

Working Party on the Transport of Dangerous Goods

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF  
DANGEROUS GOODS BY ROAD (ADR)**

**Draft amendments to annexes A and B of ADR**

**Note by the secretariat**

This document contains the consolidated list of amendments to annexes A and B of ADR, related to safety in road tunnels, adopted by the Working Party at its seventy-ninth and resumed seventy-ninth sessions (2005 and 2006) for submission for acceptance to Contracting Parties to ADR and for entry into force on 1 January 2007 (See TRANS/WP.15/185, par. 85 and 86 and ECE/TRANS/WP.15/185/Add.2).

## **PART 1**

### **Chapter 1.6**

1.6.1.12 Add a new transitional measure to read as follows:

"1.6.1.12 The provisions of section 1.9.5 shall apply as from 1 July 2007 only. Notwithstanding the provisions of section 1.9.5, Contracting Parties may continue to apply, until 31 December 2009 at the latest, restrictions to the passage of vehicles through road tunnels in accordance with the provisions of national law."

### **Chapter 1.9**

1.9.3 (a) Delete "or tunnels".

1.9.5 to 1.9.5.3.8 Add a new section to read as follows:

#### **"1.9.5 Tunnel restrictions**

*NOTE: Provisions concerning restrictions for the passage of vehicles through road tunnels are also included in Chapter 8.6.*

##### **1.9.5.1 General provisions**

When applying restrictions to the passage of vehicles carrying dangerous goods through tunnels, the competent authority shall assign the road tunnel to one of the tunnel categories defined in 1.9.5.2.2. Account should be taken of the tunnel characteristics, risk assessment including availability and suitability of alternative routes and modes and traffic management considerations. The same tunnel may be assigned to more than one tunnel category, e.g. depending on the hours of the day, or the day of the week etc.

##### **1.9.5.2 Categorization**

1.9.5.2.1 The categorization shall be based on the assumption that in tunnels there are three major dangers which may cause numerous victims or serious damage to the tunnel structure:

- (a) Explosions;
- (b) Release of toxic gas or volatile toxic liquid;
- (c) Fires.

1.9.5.2.2 The five tunnel categories are the following:

*Tunnel category A:*

No restrictions for the transport of dangerous goods;

*Tunnel category B:*

Restriction for dangerous goods which may lead to a very large explosion;

The following dangerous goods are considered to fulfil this criterion <sup>1</sup>:

Class 1:	Compatibility groups A and L;
Class 3:	Classification code D (UN Nos. 1204, 2059, 3064, 3343, 3357 and 3379);
Class 4.1:	Classification codes D and DT; and Self-reactive substances, type B (UN Nos. 3221, 3222, 3231 and 3232);
Class 5.2:	Organic peroxides, type B (UN Nos. 3101, 3102, 3111 and 3112).
When the total net explosive mass per transport unit is greater than 1000 kg:	
Class 1:	Divisions 1.1, 1.2 and 1.5 (except compatibility groups A and L).
When carried in tanks:	
Class 2:	Classification codes F, TF and TFC;
Class 4.2:	Packing group I;
Class 4.3:	Packing group I;
Class 5.1:	Packing group I.

*Tunnel category C:*

Restriction for dangerous goods which may lead to a very large explosion, a large explosion or a large toxic release;

The following dangerous goods are considered to fulfil this criterion <sup>1</sup>:

- the dangerous goods restricted in tunnel category B, and
- the following dangerous goods:

Class 1:	Divisions 1.1, 1.2 and 1.5 (except compatibility groups A and L); and Division 1.3 (compatibility groups H and J);
Class 7:	UN Nos. 2977 and 2978.
When the net explosive mass per transport unit is greater than 5000 kg:	
Class 1:	Division 1.3 (compatibility groups C and G).
When carried in tanks:	
Class 2:	Classification codes T, TC, TO and TOC;
Class 3:	Packing group I for classification codes FC, FT1, FT2 and FTC;
Class 6.1:	Packing group I for classification codes TF1 and TFC; and Toxic by inhalation entries (UN Nos. 3381 to 3390);
Class 8:	Packing group I for classification code CT1.

*Tunnel category D:*

Restriction for dangerous goods which may lead to a very large explosion, to a large explosion, to a large toxic release or to a large fire;

<sup>1</sup> *The assessment is based on the intrinsic dangerous properties of the goods, the type of containment and the quantity carried.*

The following dangerous goods are considered to fulfil this criterion <sup>1</sup>:

- the dangerous goods restricted in tunnel category C, and
- the following dangerous goods:

Class 1:	Division 1.3 (compatibility groups C and G);
Class 2:	Classification codes F, FC, T, TF, TC, TO, TFC and TOC;
Class 4.1:	Self-reactive substances, types C, D, E and F; and UN Nos. 2956, 3241, 3242 and 3251;
Class 5.2:	Organic peroxides, types C, D, E and F;
Class 6.1:	Packing group I for classification codes TF1 and TFC; and Toxic by inhalation entries (UN Nos. 3381 to 3390);
Class 8:	Packing group I for classification code CT1;
Class 9:	Classification codes M9 and M10.
When carried in bulk or in tanks:	
Class 3:	Packing group I and II; and Classification code F2;
Class 4.2:	Packing group II;
Class 4.3:	Packing group II;
Class 6.1:	Packing group I for classification codes TF2 and TW1; and Packing group II for classification codes TF1, TF2, TFC and TW1;
Class 8:	Packing group I for classification codes CF1, CFT and CW1;
Class 9:	Classification codes M2 and M3.

*Tunnel category E:*

Restriction for all dangerous goods other than UN Nos. 2919, 3291, 3331 and 3373.

**NOTE:** *For the dangerous goods assigned to UN Nos. 2919 and 3331, restrictions to the passage through tunnels may, however, be part of the special arrangement approved by the competent authority(ies) on the basis of 1.7.4.2."*

### **1.9.5.3 Provisions for road signs and notification of restrictions**

- 1.9.5.3.1 Contracting Parties shall indicate tunnel prohibitions and alternative routes by means of signs and signals.
- 1.9.5.3.2 For this purpose, they may use signs C, 3h and D, 10a, 10b and 10c and signals according to the Vienna Convention on Road Signs and Signals (Vienna, 1968) and the European Agreement supplementing the Convention on Road Signs and Signals (Geneva, 1971) as interpreted by the Resolution on Road Signs and Signals (R.E.2) of the UNECE Inland Transport Committee Principal Working Party on Road Transport, as amended.

<sup>1</sup> *The assessment is based on the intrinsic dangerous properties of the goods, the type of containment and the quantity carried.*

- 1.9.5.3.3 In order to facilitate international understanding of signs, the system of signs and signals prescribed in the Vienna Convention is based on the use of shapes, and colours characteristic of each class of signs and wherever possible, on the use of graphic symbols rather than inscriptions. Where Contracting Parties consider it necessary to modify the signs and symbols prescribed, the modifications made shall not alter their essential characteristics. Where Contracting Parties do not apply the Vienna Convention, the prescribed signs and symbols may be modified, provided that the modifications made shall not alter their essential intent.
- 1.9.5.3.4 Traffic signs and signals intended to prohibit access of vehicles carrying dangerous goods to road tunnels shall be affixed at a place where the choice of alternative routes is possible.
- 1.9.5.3.5 When access to tunnels is restricted or alternative routes are prescribed, the signs shall be displayed with additional panels as follows:
- No sign: no restriction
- Sign with additional panel bearing the letter B: applies to vehicles carrying dangerous goods not allowed in tunnels of category B;
- Sign with additional panel bearing the letter C: applies to vehicles carrying dangerous goods not allowed in tunnels of category C;
- Sign with additional panel bearing the letter D: applies to vehicles carrying dangerous goods not allowed in tunnels of category D;
- Sign with additional panel bearing the letter E: applies to vehicles carrying dangerous goods not allowed in tunnels of category E.
- 1.9.5.3.6 Tunnel restrictions shall not apply when dangerous goods are carried in accordance with 1.1.3
- 1.9.5.3.7 Restrictions shall be published officially and made publicly available.
- 1.9.5.3.8 When Contracting Parties apply specific operating measures designed to reduce the risks and related to some or all vehicles using tunnels, such as declaration before entering or passage in convoys escorted by accompanying vehicles, such operating measures shall be published officially and made publicly available."

## **PART 3**

### **Chapter 3.2**

- 3.2.1 Amend the explanations for Column (15) to read as follows:

"Column (15) "Transport category / (Tunnel restriction code)"

Contains at the top of the cell a figure indicating the transport category to which the substance or article is assigned for the purposes of exemption related to quantities carried per transport unit (see 1.1.3.6).

Contains at the bottom of the cell, between brackets, the tunnel restriction code that refers to the applicable restriction for the passage of vehicles carrying the substance or article through road tunnels. These are to be found in Chapter 8.6. When no tunnel restriction code has been assigned, this is indicated by the mention '(—)'."

### Table A

Amend the heading of Column (15) to read as follows:

*"Transport category  
1.1.3.6  
(Tunnel restriction code)  
(8.6)".*

In column (15), at the bottom of the cell: add, between brackets, the alphanumeric codes as indicated below:

Class 1	Division 1.1 compatibility groups A and L	(B)
	Division 1.1 compatibility groups B, C, D, E, F, G and J	(B1000C)
	Division 1.2 compatibility group L	(B)
	Division 1.2 compatibility groups B, C, D, E, F, G, H and J	(B1000C)
	Division 1.3 compatibility group L	(B)
	Division 1.3 compatibility groups H and J	(C)
	Division 1.3 compatibility groups C and G	(C5000D)
	Division 1.4	(E)
	Division 1.5, compatibility group D	(B1000C)
	Division 1.6	(E)
	UN No. 0190	(E)
Class 2	Classification codes with letters F, TF, TFC	(B1D)
	Classification codes with letters FC	(D)
	Classification codes with letters T, TC, TO, TOC	(C1D)
	Classification codes with letters A, O, C, CO	(E)
Class 3	Classification code D	(B)
	Packing Group I for classification code FC, FT1, FT2, FTC	(C1E)
	Packing Groups I and II	(D1E)
	Classification code F2	(D1E)
	Others	(E)
Class 4.1	Classification codes D and DT	(B)
	UN Nos. 3221, 3222, 3231, 3232	(B)
	Self-reactive substances, types C, D, E, F	(D)
	UN Nos. 2956, 3241, 3242, 3251	(D)
	Others	(E)
Class 4.2	Packing Group I	(B1E)
	Packing Group II	(D1E)
	Others	(E)
Class 4.3	Packing Group I	(B1E)
	Packing Group II	(D1E)
	Others	(E)

Class 5.1	Packing Group I	(B1E)
	Others	(E)
Class 5.2	Type B	(B)
	Types C, D, E, F	(D)
Class 6.1	Packing Group I for classification codes TF1, TFC	(C1D)
	UN Nos. 3381 to 3390	(C1D)
	Packing Group I for classification codes TF2 and TW1	(D1E)
	Packing Group II for classification codes TF1, TF2, TFC and TW1	(D1E)
	Others	(E)
Class 6.2	UN Nos. 2814 and 2900	(E)
Class 7	UN Nos. 2977 and 2978	(C)
	Others except UN Nos. 2919 and 3331	(E)
Class 8	Packing Group I for classification code CTI	(C1D)
	Packing Group I for classification codes CF1, CFT and CW1	(D1E)
	Others	(E)
Class 9	Classification codes M2 and M3	(D1E)
	Classification codes M9 and M10	(D)
	Others	(E)
Dangerous goods not mentioned above		(—)

## PART 8

### Chapter 8.6

Add a new Chapter 8.6 to read as follows:

#### "CHAPTER 8.6

#### ROAD TUNNEL RESTRICTIONS FOR THE PASSAGE OF VEHICLES CARRYING DANGEROUS GOODS

##### 8.6.1 General provisions

The provisions of this Chapter apply when the passage of vehicles through road tunnels is restricted in accordance with 1.9.5.

*NOTE: Restrictions not in accordance with 1.9.5 may apply until 31 December 2009 (see 1.6.1.12).*

##### 8.6.2 Road signs or signals governing the passage of vehicles carrying dangerous goods

The tunnel category, assigned in accordance with 1.9.5.1 by the competent authority to a given road tunnel for the purpose of restricting the passage of transport units carrying dangerous goods, shall be indicated as follows by means of road signs and signals:

<b>Sign and signal</b>	<b>Tunnel category</b>
No sign	Tunnel category A
Sign with an additional panel bearing a letter B	Tunnel category B
Sign with an additional panel bearing a letter C	Tunnel category C
Sign with an additional panel bearing a letter D	Tunnel category D
Sign with an additional panel bearing a letter E	Tunnel category E

### 8.6.3 Tunnel restriction codes

8.6.3.1 The restrictions for the transport of specific dangerous goods through tunnels are based on the tunnel restriction code of these goods, indicated in Column (15) of Table A of Chapter 3.2. The tunnel restriction codes are put between brackets at the bottom of the cell. When '(—)' is indicated instead of one of the tunnel restriction codes, the dangerous goods are not subject to any tunnel restriction; for the dangerous goods assigned to UN Nos. 2919 and 3331, restrictions to the passage through tunnels may, however, be part of the special arrangement approved by the competent authority(ies) on the basis of 1.7.4.2.

8.6.3.2 When a transport unit contains dangerous goods to which different tunnel restriction codes have been assigned, the most restrictive of these tunnel restriction codes shall be assigned to the whole load.

8.6.3.3 Dangerous goods carried in accordance with 1.1.3 are not subject to the tunnel restrictions and shall not be taken into account when determining the tunnel restriction code to be assigned to the whole load of a transport unit.

### 8.6.4 Restrictions for the passage of transport units carrying dangerous goods through tunnels

Once the tunnel restriction code to be assigned to the whole load of the transport unit has been determined, the restrictions for the passage of this transport unit through tunnels are the following:

<b>Tunnel restriction code of the whole load</b>	<b>Restriction</b>
B	Passage forbidden through tunnels of category B, C, D and E
B1000C	Passage forbidden through tunnels of category B when the total net explosive mass per transport unit is greater than 1000 kg; Passage forbidden through tunnels of category C, D and E
B1D	Passage forbidden through tunnels of category B and C when carried in tanks; Passage forbidden through tunnels of category D and E
B1E	Passage forbidden through tunnels of category B, C and D when carried in tanks; Passage forbidden through tunnels of category E
C	Passage forbidden through tunnels of category C, D and E
C5000D	Passage forbidden through tunnels of category C when the total net explosive mass per transport unit is greater than 5000 kg; Passage forbidden through tunnels of category D and E



Tunnel restriction code of the whole load	Restriction
C1D	Passage forbidden through tunnels of category C when carried in tanks; Passage forbidden through tunnels of category D and E
C1E	Passage forbidden through tunnels of category C and D when carried in tanks; Passage forbidden through tunnels of category E
D	Passage forbidden through tunnels of category D and E
D1E	Passage forbidden through tunnels of category D when carried in bulk or in tanks; Passage forbidden through tunnels of category E
E	Passage forbidden through tunnels of category E
—	Passage allowed through all tunnels (For UN Nos. 2919 and 3331, see also 8.6.3.1)

***NOTE:** For example, the passage of a transport unit carrying UN 0161, powder, smokeless, classification code 1.3C, tunnel restriction code C5000D, in a quantity representing a total net explosive mass of 3000 kg is forbidden in tunnels of categories D and E."*

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