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ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

Working Party on the Transport of Dangerous Goods

Joint Meeting of Experts on the Regulations annexed to the
European Agreement concerning the International Carriage
of Dangerous Goods by Inland Waterways (ADN)
(ADN Safety Committee)

Sixteenth session
Geneva, 25-29 January 2010
Item 4 (b) of the provisional agenda

PROPOSALS FOR AMENDMENTS TO THE REGULATIONS ANNEXED TO ADN

Other amendment proposals

Instructions in writing (5.4.3)

Transmitted by the European Chemical Industry Council (CEFIC)^{1, 2}

¹ Distributed in German by the Central Commission for the Navigation of the Rhine (CCNR) under the symbol CCNR/ZKR/ADN/WP.15/AC.2/2010/1.

² In accordance with the programme of work of the Inland Transport Committee for 2006-2010 (ECE/TRANS/166/Add.1, programme activity 02.7 (b)).

Summary

Executive summary:	A review of the contents of the “new” instructions in writing reveals a number of deficiencies: the characteristics of the hazards are not always complete and important information provided by marks and warning signs are missing.
Action to be taken:	Amending 5.4.3.4
Related documents:	Informal document INF.12 (Secretariat) (submitted at the fifteenth session) ECE/TRANS/WP.15/2009/17 (CEFIC) ECE/TRANS/WP.15/203

Introduction

1. At its fifteenth session the Safety Committee noted that CEFIC had proposed modifications to the ADR instructions in writing (section 5.4.3.) in document ECE/TRANS/WP.15/2009/17 and that following the results of discussions, a similar proposal might be submitted for ADN.

2. Document ECE/TRANS/WP.15/2009/17 was discussed at the eighty-seventh session of the Working Party of the Transport of Dangerous Goods (WP.15) in November 2009 and resulted in the adoption of a number of amendments (see ECE/TRANS/WP.15/203, paras. 49-52 and annex I). In order to keep the instructions in writing of ADN aligned to those of ADR, CEFIC proposes to amend 5.4.3.4. of ADN accordingly. Only those amendments which have been adopted by WP.15 and which are applicable to ADN are being proposed.

3. Arguments for the different proposed changes can be found in document ECE/TRANS/WP.15/2009/17 and have therefore not been reproduced. Note that there are no changes to the first page of the four-page model.

4. A number of remaining differences (e.g. the mention “Limit time of exposure” in column 3 for Fissile Material) or internal inconsistencies (e.g. the mention of “or the sewerage system” in column 2 between labels 6.1 and 8) have been identified and have been put between square brackets, preceded by “*”. The Safety Committee may wish to consider if these amendments should be made in order to achieve more alignment with ADR.

5. In order to leave sufficient time for the carriers to obtain the documents in all required languages a transitional period up to 31 December 2012 is proposed. In the period 1 January 2011 to 31 December 2012 the use of both the current as well the amended version would be allowed. Note that this was not discussed by WP.15 and therefore no decision was taken.

Proposal

6. Subsection 5.4.3.4. is proposed to be amended as in the Annex (new text underlined – obsolete text struck-through).

7. As adopted by WP.15: replace label 1, shown as danger label for explosive substances and articles in the first column, by the correct specimen label 1, shown in sub-section 5.2.2.2.2.
8. Consider the remaining differences between ADR and ADN and internal inconsistencies as explained in paragraph 4.
9. Introduce a transitional measure as follows:
 - "1.6.1.x Existing instructions in writing which meet the requirements of sub-section 5.4.3 applicable up to 31 December 2010 may continue to be used until 31 December 2012."

Justification

10. The proposed amendments will make the instructions in writing more accurate and readily understood by members of the crew.

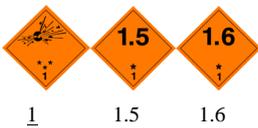
Safety

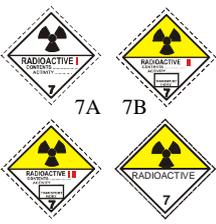
11. Safety will be increased.

Feasibility

12. The economic effort of implementing a revision of the four-page model is justified by the increase in safety. The proposed transitional period will leave sufficient time for the carriers to obtain the documents in all required languages.

Annex

Additional guidance to members of the vehicle crew on the hazard characteristics of dangerous goods by class and on actions subject to prevailing circumstances		
Danger labels and placards	Hazard characteristics	Additional guidance
(1)	(2)	(3)
Explosive substances and articles  1 1.5 1.6	May have a range of properties and effects such as mass detonation; projection of fragments; intense fire/heat flux; formation of bright light, loud noise or smoke. Sensitive to shocks and/or impacts and/or heat.	Take cover but stay away from windows. Steer the vessel as far away as possible from infrastructure and inhabited areas.
Explosive substances and articles  1.4	Slight risk of explosion and fire.	Take cover.
Flammable gases  2.1	Risk of fire. Risk of explosion. May be under pressure. Risk of asphyxiation. May cause burns and/or frostbite. Containments may explode when heated.	Take cover. Keep out of low areas.
Non-flammable, non-toxic gases  2.2	Risk of asphyxiation. May be under pressure. May cause frostbite. Containments may explode when heated.	Take cover. Keep out of low areas.
Toxic gases  2.3	Risk of intoxication. May be under pressure. May cause burns and/or frostbite. Containments may explode when heated.	Use escape device. Take cover. Keep out of low areas.
Flammable liquids  3	Risk of fire. Risk of explosion. Containments may explode when heated.	Take cover. Keep out of low areas. Prevent leaking substances from running into the aquatic environment.
Flammable solids, self-reactive substances and solid desensitized explosives  4.1	Risk of fire. Flammable or combustible, may be ignited by heat, sparks or flames. May contain self-reactive substances that are liable to exothermic decomposition in the case of heat supply, contact with other substances (such as acids, heavy-metal compounds or amines), friction or shock. This may result in the evolution of harmful and flammable gases or vapours or <u>self-ignition</u> . Containments may explode when heated. <u>Risk of explosion of desensitized explosives after loss of desensitizer.</u>	Prevent leaking substances from running into the aquatic environment.
Substances liable to spontaneous combustion  4.2	Risk of <u>fire by</u> spontaneous combustion if packages are damaged or contents are spilled. May react vigorously with water.	* [Spilled substances should be kept dry by covering the spillages].
Substances which, in contact with water, emit flammable gases  4.3	Risk of fire and explosion in contact with water.	Spilled substances should be kept dry by covering the spillages.

Danger labels and placards	Hazard characteristics	Additional guidance
(1)	(2)	(3)
Oxidizing substances  5.1	Risk of ignition and explosion Risk of vigorous reaction in contact with flammable substances. Risk of vigorous reaction, ignition and explosion in contact with combustible or flammable substances.	Avoid mixing with flammable or combustible substances (e.g. sawdust).
Organic peroxides  5.2	Risk of exothermic decomposition at elevated temperatures, contact with other substances (such as acids, heavy-metal compounds or amines), friction or shock. This may result in the evolution of harmful and flammable gases or vapours or self-ignition.	Avoid mixing with flammable or combustible substances (e.g. sawdust).
Toxic substances  6.1	Risk of intoxication by inhalation, skin contact or ingestion Risk to the aquatic environment * [or the sewerage system].	Use escape device. * [Keep out of low areas]
Infectious substances  6.2	Risk of infection. May cause serious disease in humans or animals. Risk to the aquatic environment * [or the sewerage system].	
Radioactive material  7A 7B 7C 7D	Risk of intake and external radiation.	Limit time of exposure.
Fissile material  7E	Risk of nuclear chain reaction.	* [Limit time of exposure]
Corrosive substances  8	Risk of chemical burns by corrosion. May react vigorously with each other, with water and with other substances. Spilled substance may evolve corrosive vapours. Risk to the aquatic environment and or sewage system.	Prevent leaking substances from running into the aquatic environment.
Miscellaneous dangerous substances and articles  9	Risk of burns, Risk of fire. Risk of explosion. Risk to the aquatic environment and or sewage system.	Prevent leaking substances from running into the aquatic environment.

NOTE: 1. For dangerous goods with multiple risks and for mixed loads, each applicable entry shall be observed.

2. Additional guidance shown above may be adapted to reflect the classes of dangerous goods to be carried and their means of transport.

3. Risks, see also entries in the transport document as well as Chapter 3.2, Table C, Column 5.

<u>Additional guidance to members of the vehicle-crew on the hazard characteristics of dangerous goods, indicated by marks or warning signs, and on actions subject to prevailing circumstances</u>		
<u>Mark or warning sign</u> (1)	<u>Hazard characteristics</u> (2)	<u>Additional guidance</u> (3)
 Environmentally hazardous substances	Risk to the aquatic environment or the sewage system.	
 Elevated temperature substances	Risk of burns by heat.	Avoid contact with hot parts of the transport unit and the spilled substance.

Equipment for personal and general protection
to carry out general actions and hazard specific emergency actions
to be carried on board the vehicle in accordance with section 8.1.5 of ADN

The equipment required by Chapter 3.2, Table A, Column (9) and Table C, Column (18) shall be carried on board the vessel for all hazards listed in the transport document.
