

## 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)

Twelfth session  
Geneva, 21-25 January 2008  
Agenda item 4 (c)

#### **Section 5.4.3 Instructions in writing**

Submitted by Germany

In its 83<sup>rd</sup> session WP.15 has adopted amendments to the provisions regarding instructions in writing. The adopted text for ADR is reproduced in Annex 1 (German language only, for other languages see Doc. ECE/TRANS/WP.15/2007/25 as well as INF.6, INF.12, INF.17 and INF.18 (83<sup>rd</sup> session)).

The initiative for preparing these amendments was taken by FIATA and IRU. The main reasons were deviating and often contradictory information for the same substances entered in the instructions in writing and practical problems coming from a pile of instructions in case of mixed load vehicles or containers. After several working groups and discussions in WP.15 Germany had placed the final document.

Having one single document in the drivers cab, provided by the carrier and no longer by the consignor, will have an impact on the transport of dangerous goods by inland waterways. In future, a consignment being carried in a transport chain road - inland waterways will not be accompanied by an individual instruction in writing any more.

The question is how this situation should be handled with regard to ADN. Three alternatives are possible:

1. No changes in ADN. Consignors of consignments being carried in the transport chain road - inland waterways have to provide an individual instruction in writing for the “wet leg” of the journey. Problems can arise if the consignor does not know in advance that the consignment will be carried on inland waterways.
2. The current provisions are kept as they are for consignments originating in an inland waterways carriage. For all other consignments the instruction in writing according to ADR is accepted. For this situation, each vessel shall have an ADR instruction in writing aboard.

3. ADN takes over the new provisions of ADR which means that one general instruction in writing will be aboard the vessel covering all kinds of dangerous goods.

Note: Alternatives 1 and 2 will not solve the problem of deviating and often contradictory information for the same substances.

Germany invites all participants of this meeting to exchange their views and opinions.

Further procedure: If WP.15/AC.2 decides on an alternative in principle Germany would be ready to prepare the respective documents for CCR-MD/G (ADNR; next meeting: March 2008) and WP.15/AC.2 (ADN; next meeting: June 2008).

## Annex 1

### Decisions of WP.15 regarding Instructions in writing

5.4.3.1 Amend the first sentence to read as follows:

“As an aid during an accident emergency situation that may occur or arise during carriage, instructions in writing in the form specified in 5.4.3.4 shall be carried in the vehicle crew’s cab and shall be readily available.”

and delete (a) to (f).

5.4.3.2

to 5.4.3.8 Amend 5.4.3.2 to 5.4.3.4 to read as follows and delete 5.4.3.5 to 5.4.3.8:

“5.4.3.2 These instructions shall be provided by the carrier to the vehicle crew in language(s) that each member can read and understand before the commencement of the journey. The carrier shall ensure that each member of the vehicle crew concerned understands and is capable of carrying out the instructions properly.

5.4.3.3 Before the start of the journey, the members of the vehicle crew shall inform themselves of the dangerous goods loaded and consult the instructions in writing for details on actions to be taken in the event of an accident or emergency.










5.4.3.4 The instructions in writing shall correspond to the following four page model as regards its form and contents.





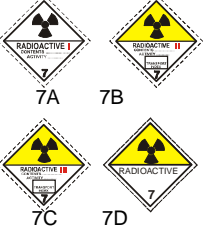



<b>INSTRUCTIONS IN WRITING</b>
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Actions in the event of an accident or emergency

In the event of an accident or emergency that may occur or arise during carriage, the members of the vehicle crew shall take the following actions where safe and practicable to do so:

- Apply the braking system, stop the engine and isolate the battery by activating the master switch where available;
- Avoid sources of ignition, in particular, do not smoke or switch on any electrical equipment;
- Inform the appropriate emergency services, giving as much information about the incident or accident and substances involved as possible;
- Put on the warning vest and place the self-standing warning signs as appropriate;
- Keep the transport documents readily available for responders on arrival;
- Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind;
- Where appropriate and safe to do so, use the fire extinguishers to put out small/initial fires in tyres, brakes and engine compartments;
- Fires in load compartments shall not be tackled by members of the vehicle crew;
- Where appropriate and safe to do so, use on-board equipment to prevent leakages into the aquatic environment or the sewage system and to contain spillages;
- Move away from the vicinity of the accident or emergency, advise other persons to move away and follow the advice of the emergency services;
- Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

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 (1)	Hazard characteristics (2)	Additional guidance (3)
Explosive substances and articles 	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.
Explosive substances and articles 	Slight risk of explosion and fire.	Take cover.
Flammable gases 	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 	Risk of asphyxiation. May be under pressure. May cause frostbite. Containments may explode when heated.	Take cover. Keep out of low areas.
Toxic gases 	Risk of intoxication. May be under pressure. May cause burns and/or frostbite. Containments may explode when heated.	Use emergency escape mask. Take cover. Keep out of low areas.
Flammable liquids 	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 or the sewage system.
Flammable solids, self-reactive substances and desensitized explosives 	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.  Containments may explode when heated.	Prevent leaking substances from running into the aquatic environment or the sewage system.
Substances liable to spontaneous combustion 	Risk of spontaneous combustion if packages are damaged or contents are spilled.  May react vigorously with water	
Substances which, in contact with water, emit flammable gases 	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.	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.	Avoid mixing with flammable or combustible substances (e.g. sawdust).
Toxic substances  6.1	Risk of intoxication.  Risk to the aquatic environment and the sewerage system.	Use emergency escape mask.
Infectious substances  6.2	Risk of infection.  Risk to the aquatic environment and 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.	
Corrosive substances  8	Risk of burns.  May react vigorously with each other, with water and with other substances.  Risk to the aquatic environment and the sewerage system.	Prevent leaking substances from running into the aquatic environment or the sewerage system.
Miscellaneous dangerous substances and articles  9	Risk of burns.  Risk of fire.  Risk of explosion.  Risk to the aquatic environment and the sewerage system.	Prevent leaking substances from running into the aquatic environment or the sewerage system.

**NOTE 1:** For dangerous goods with multiple risks and for mixed loads, each applicable entry shall be observed.  
**NOTE 2:** Additional guidance shown above may be adapted to reflect the classes of dangerous goods to be carried and their means of transport.

**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 ADR**

The following equipment shall be carried onboard the transport unit for all danger label numbers:

- for each vehicle, a wheel chock of a size suited to the maximum mass of the vehicle and to the diameter of the wheel;
- two self-standing warning signs;
- eye rinsing liquid <sup>a/</sup>; and

for each member of the vehicle crew

- a warning vest (e.g. as described in the EN 471 standard);
- portable lighting apparatus [conforming to the provisions of 8.3.4][see if needed in the instruction itself];
- a pair of protective gloves; and
- eye protection (e.g. protective goggles).

Additional equipment required for certain classes:

- an emergency escape mask <sup>b/</sup> for each member of the vehicle crew shall be carried on board the vehicle for danger label numbers 2.3 or 6.1;
- a shovel <sup>c/</sup>;
- a drain seal <sup>c/</sup>;
- a collecting container made of plastics <sup>c/</sup>."

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<sup>a/</sup> Not required for danger label numbers 1, 1.4, 1.5, 1.6, 2.1, 2.2 and 2.3.

<sup>b/</sup> For example an emergency escape mask with a combined gas/dust filter of the A1B1E1K1-P1 or A2B2E2K2-P2 type which is similar to that described in the EN 141 standard.

<sup>c/</sup> Only required for danger label numbers 3, 4.1, 4.3, 8 and 9.

**PART 8**

**Chapter 8.1**

8.1.2.1 (b) Amend to read: "The instructions in writing prescribed in 5.4.3;".  
(*Ref. Doc.: ECE/TRANS/WP.15/2007/25*)

8.1.2.3 Amend to read as follows:  
"The instructions in writing prescribed in 5.4.3 shall be kept readily available."  
(*Ref. Doc.: ECE/TRANS/WP.15/AC.1/2007/30/Add.1*)

8.1.2.4 Amend to read as follows: "(Deleted)".  
(*Ref. Doc.: ECE/TRANS/WP.15/AC.1/2007/30/Add.1*)

8.1.5 Amend to read as follows:  
(*Ref. Doc.: ECE/TRANS/WP.15/2007/25 + ECE/TRANS/WP.15/194, Annex I +  
ECE/TRANS/WP.15/190, Annex I for the portable lighting apparatus*)

**"8.1.5 Miscellaneous equipment and equipment for personal protection**

8.1.5.1 Each transport unit carrying dangerous goods shall be provided with items of equipment for general and personal protection in accordance with 8.1.5.2. The items of equipment shall be selected in accordance with the danger label number of the goods loaded. The label numbers can be identified through the transport document.

8.1.5.2 The following equipment shall be carried on board the transport unit for all danger label numbers:

- for each vehicle, a wheel chock of a size suited to the maximum mass of the vehicle and to the diameter of the wheel;
- two self-standing warning signs;
- eye rinsing liquid<sup>2</sup>; and

for each member of the vehicle crew

- a warning vest (e.g. as described in the EN 471 standard);
- portable lighting apparatus [conforming to the provisions of 8.3.4]; check if text in square brackets needed
- a pair of protective gloves; and
- eye protection (e.g. protective goggles).

8.1.5.3 Additional equipment required for certain classes:

- an emergency escape mask<sup>3</sup> for each member of the vehicle crew shall be carried on board the vehicle for danger label numbers 2.3 or 6.1;
- a shovel<sup>4</sup>;
- a drain seal<sup>4</sup>;
- a collecting container made of plastics<sup>4</sup>."

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<sup>2</sup> Not required for danger label numbers 1, 1.4, 1.5, 1.6, 2.1, 2.2 and 2.3.

<sup>3</sup> For example an emergency escape mask with a combined gas/dust filter of the A1B1E1K1-P1 or A2B2E2K2-P2 type which is similar to that described in the EN 141 standard.

<sup>4</sup> Only required for danger label numbers 3, 4.1, 4.3, 8 and 9.