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**ECONOMIC COMMISSION FOR EUROPE**

**INLAND TRANSPORT COMMITTEE**

Working Party on the Transport of Dangerous Goods

Eighty-third session

Geneva, 5-9 November 2007

Item 5 of the provisional agenda

**PROPOSALS FOR AMENDMENTS TO ANNEXES A AND B OF ADR**

Section 5.4.3

Instructions in writing

Transmitted by the Government of Germany <sup>\*/</sup>

**SUMMARY**

Executive summary: The current provisions on instructions in writing are not deemed satisfactory any longer. Two working groups organised by the International Road Transport Union (IRU) and the International Federation of Freight Forwarders Association (FIATA) have developed a new approach. On the basis of this work, a document proposing amendments to the provisions on instructions in writing and related subjects was submitted to the Working Party at its 82<sup>nd</sup> session.

Related documents: TRANS/WP.15/2005/17, INF.14 (80<sup>th</sup> session), INF.11 (81<sup>st</sup> session) and ECE/TRANS/WP.15/190, para. 63 – 65  
ECE/TRANS/WP.15/2007/4, INF.6, INF.8, INF.10, INF.17, INF:21 (82<sup>nd</sup> session); ECE/TRANS/WP.15/192, paras. 33-36.

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<sup>\*/</sup> The present document is submitted in accordance with paragraph 1(c) of the terms of reference of the Working Party, as contained in document ECE/TRANS/WP.15/190/Add.1, which provides a mandate to “Develop and update the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)”.

1. Reference is made to the debate concerning the proposal by the Government of Germany (ECE/TRANS/WP.15/2007/4) to revise the current provisions concerning instructions in writing and the decisions taken by the Working Party at its last session, as recorded in ECE/TRANS/WP.15/192, para. 33-36.

2. Delegations proposing amendments to improve the proposal were invited to send their comments to the representative of Germany in writing, so that a revised version of the proposal could be submitted at the 83<sup>rd</sup> session. (ECE/TRANS/WP.15/192, para. 36).

3. The annex to this document contains a revised version of the annex to ECE/TRANS/WP.15/2007/4 which takes account of the comments received. A track change version which shows the changes made is reproduced as informal document INF.3.

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Annex

Proposals for amendments to the provisions concerning the 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 Amend the first sentence to read as follows:

“These instructions shall be provided by the carrier to each member of the vehicle crew in a language that he can read and understand before the commencement of the journey.”.

Replace the second sentence with the following one:

“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 Replace the existing wording with the following text:

“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 Amend to read as follows:










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





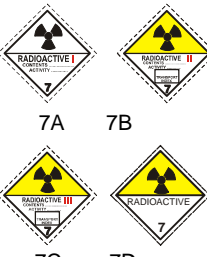



## INSTRUCTIONS IN WRITING

### 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;
- 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.

| <b>Additional guidance to members of the vehicle crew on the hazard characteristics of dangerous goods by class and on actions subject to prevailing circumstances</b> |   |   |
|--|---|---|
| <b>Danger labels and placards</b>  | <b>Hazard characteristics</b>   | <b>Additional guidance</b>  |
| (1)  | (2)   | (3)   |
| Explosive substances and articles<br><br>1      1.5      1.6                          | May have a range of properties and effects such as mass detonation; projection of fragments; combustion; formation of bright light, loud noise or smoke.<br>Sensitive to shocks and/or impacts and/or heat.   | Take cover but stay away from windows.  |
| Explosive substances and articles<br><br>1.4  | Slight risk of explosion.   | Take cover but stay away from windows.  |
| Flammable gases<br><br>2.1  | Risk of fire.<br>Risk of explosion.<br>May be under pressure.<br>Risk of asphyxiation.<br>May cause burns and/or frostbite.<br>Containments may explode when heated.  | Use emergency escape mask.<br>Take cover.<br>Keep out of low areas.   |
| Non-flammable, non-toxic gases<br><br>2.2  | Risk of asphyxiation.<br>May be under pressure.<br>May cause frostbite.<br>Containments may explode when heated.  | Take cover.<br>Keep out of low areas.   |
| Toxic gases<br><br>2.3  | Risk of intoxication.<br>May be under pressure.<br>May cause burns and/or frostbite.<br>Containments may explode when heated.   | Use emergency escape mask.<br>Take cover.<br>Keep out of low areas.   |
| Flammable liquids<br><br>3  | Risk of fire.<br>Risk of explosion.<br>Containments may explode when heated.  | Take cover.<br>Keep out of low areas.<br>Prevent leaking substances from running into the aquatic environment or the sewage system. |
| Flammable solids, self-reactive substances and desensitized explosives<br><br>4.1   | Risk of fire. Flammable or combustible, may be ignited by heat, sparks or flames.<br>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.<br>Containments may explode when heated. | Prevent leaking substances from running into the aquatic environment or the sewage system.  |
| Substances liable to spontaneous combustion<br><br>4.2                              | Risk of spontaneous combustion if packages are damaged or contents are spilled.<br>May react vigorously with water  |   |
| Substances which, in contact with water, emit flammable gases<br><br>4.3            | Risk of fire and explosion in contact with water.   | Spilled substances should be kept dry by covering the spillages.  |

| Danger label number   | Hazard characteristics  | Additional guidance  |
|---|---|--|
| (1)   | (2)   | (3)  |
| Oxidizing substances<br><br>5.1                            | Risk of ignition and explosion.<br>Risk of vigorous reaction in contact with flammable substances.  | Avoid mixing with flammable or combustible substances (e.g. sawdust).                        |
| Organic peroxides<br><br>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<br><br>6.1                                | Risk of intoxication.<br>Risk to the aquatic environment and the sewerage system.   | Use emergency escape mask.   |
| Infectious substances<br><br>6.2                           | Risk of infection.<br>Risk to the aquatic environment and the sewerage system.  |  |
| Radioactive material<br><br>7A 7B<br>7C 7D               | Risk of incorporation and external radiation.   | Limit time of exposure.  |
| Fissile material<br><br>7E                               | Risk of nuclear chain reaction.   |  |
| Corrosive substances<br><br>8                            | Risk of burns.<br>May react vigorously with each other, with water and with other substances.<br>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<br><br>9 | Risk of burns.<br>Risk of fire.<br>Risk of explosion.<br>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

| Items of equipment   | Danger label number    |                 |     |     |   |                 |     |     |     |     |     |     |                            |   |   |   |
|--|------------------------|-----------------|-----|-----|---|-----------------|-----|-----|-----|-----|-----|-----|----------------------------|---|---|---|
|  | 1<br>1.4<br>1.5<br>1.6 | 2.1             | 2.2 | 2.3 | 3 | 4.1             | 4.2 | 4.3 | 5.1 | 5.2 | 6.1 | 6.2 | 7A<br>7B<br>7C<br>7D<br>7E | 8 | 9 |   |
| <b>A wheel chock for each vehicle</b><br>The size must suit to the weight of the vehicle and to the diameter of the wheels   | X                      | X               | X   | X   | X | X               | X   | X   | X   | X   | X   | X   | X                          | X | X |   |
| <b>Two self standing warning signs</b>   | X                      | X               | X   | X   | X | X               | X   | X   | X   | X   | X   | X   | X                          | X | X |   |
| <b>A warning vest for each member of the vehicle crew</b> e.g. as described in the EN 471 standard   | X                      | X               | X   | X   | X | X               | X   | X   | X   | X   | X   | X   | X                          | X | X |   |
| <b>A pocket lamp for each member of the vehicle crew according to 8.3.4</b>  | X                      | X               | X   | X   | X | X               | X   | X   | X   | X   | X   | X   | X                          | X | X |   |
| <b>A pair of gloves made of nitrile caoutchouc and a pair made of leather for each member of the vehicle crew</b>  | X                      | X               | X   | X   | X | X               | X   | X   | X   | X   | X   | X   | X                          | X | X |   |
| <b>Protective goggles for each member of the vehicle crew</b>  | X                      | X               | X   | X   | X | X               | X   | X   | X   | X   | X   | X   | X                          | X | X |   |
| <b>Eye rinsing liquid</b>  | X                      |                 |     |     | X | X               | X   | X   | X   | X   | X   | X   | X                          | X | X |   |
| <b>An emergency escape mask for each member of the vehicle crew</b> for example 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 |                        | X <sup>1)</sup> |     | X   |   |                 |     |     |     |     | X   |     |                            |   |   |   |
| <b>Shovel</b>  |                        |                 |     |     | X | X <sup>2)</sup> |     | X   |     |     |     |     |                            |   | X | X |
| <b>Drain seal</b>  |                        |                 |     |     | X | X <sup>2)</sup> |     | X   |     |     |     |     |                            |   | X | X |
| <b>Collecting container made of plastics</b>   |                        |                 |     |     | X | X <sup>2)</sup> |     |     |     |     |     |     |                            |   | X | X |

1) Only in combination with label number 6.1

2) Only when liquids are carried".

5.4.3.5 Delete.

5.4.3.6 Delete.

5.4.3.7 Delete.

5.4.3.8 Delete.

### **Consequential amendments**

8.1.2.1 b) Delete and replace by “The instructions in writing prescribed in 5.4.3”.

8.1.2.3 Delete the existing text and insert:

“The instructions in writing prescribed in 5.4.3 shall be kept readily available”.

8.1.2.4 Delete.

8.1.5 Delete the existing text and replace it by the following:

#### **“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 numbers of the danger labels 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 weight of the vehicle and to the diameter of the wheel;
- two self-standing warning signs;
- eye rinsing liquid <sup>1)</sup>; and

for each member of the vehicle crew

- a warning vest (e.g. as described in the EN 471 standard);
- a pocket lamp;
- a pair of gloves made of nitrile rubber and a pair of gloves made of leather; and
- 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 2.1 <sup>4)</sup>, 2.3 and 6.1;
- a shovel <sup>2)</sup>;
- a drain seal <sup>2)</sup>;
- a collecting container made of plastics <sup>5)</sup>.”.

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<sup>1)</sup> *Not required for danger label numbers 2.1, 2.2 and 2.3.*

<sup>2)</sup> *Only required for danger label numbers 3, 4.1, 4.3, 8 and 9.*

<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 in combination with danger label number 6.1.*

<sup>5)</sup> *Only required for danger label numbers 3, 4.1, 8 and 9.*

8.5 Delete special provision S7.

3.2 Delete special provision S7 in Table A, column 19, wherever it appears.

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