










## **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;
- 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   | Hazard characteristics  | Additional guidance   |
|--|---|---|
| (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; intense fire/heat flux; 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 and fire.  | Take cover.   |
| 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.  | 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 labels and placards  | 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 intake 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**

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>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;
- 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.