












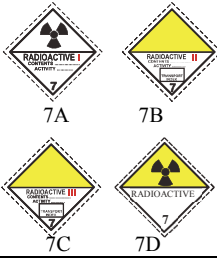





**INSTRUCTIONS IN WRITING ACCORDING TO ADN**  
Actions in the event of an accident or incident



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

- Inform all other persons on board about the emergency and keep them away as much as possible from the danger zone. Alert other vessels in the vicinity;
- Avoid sources of ignition, in particular, do not smoke, use electronic cigarettes or similar devices or switch on or off any electrical equipment that is not the "certified safe" type and is not designed for use in emergency response;
- Inform the appropriate body, giving as much information about the accident or incident and substances involved as possible;
- Keep the transport documents and the loading plan 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, tackle small/initial fires;
- Where appropriate and safe to do so, use on-board equipment to prevent leakages into the aquatic environment and contain spillages;
- Where necessary and safe to do so, secure the ship against drifting;
- Where appropriate, move away from the vicinity of the accident or incident, advise other persons to move away and follow the advice of the appropriate body;
- Remove any contaminated clothing and used contaminated protective equipment, dispose of it safely and wash the body by appropriate means;
- Observe the additional guidance assigned to the hazards of all concerned goods in the following table. For carriage in packages or in bulk, the hazards correspond to the number of the danger label model; for carriage in tank vessels to the data in accordance with 5.4.1.1.2 (c).

Additional guidance to members of the crew on the hazard characteristics of dangerous goods by class and on actions to be taken subject to prevailing circumstances		
Danger labels and placards, description of the hazards	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 emergency escape mask. 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.
Flammable solids, self-reactive substances, polymerizing 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 self-ignition. Containments may explode when heated. Risk of explosion of desensitized explosives after loss of desensitizer.	
Substances liable to spontaneous combustion  4.2	Risk of fire by spontaneous combustion if packages are damaged or contents spilled. May react vigorously with water.	
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, description of the hazards	Hazard characteristics	Additional guidance
(1)	(2)	(3)
Oxidizing 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 	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 	Risk of intoxication by inhalation, skin contact or ingestion. Risk to the aquatic environment.	Use emergency escape mask.
Infectious substances 	Risk of infection. May cause serious disease in humans or animals Risk to the aquatic environment.	
Radioactive material 	Risk of intake and external radiation.	Limit time of exposure.
Fissile material 	Risk of nuclear chain reaction.	
Corrosive substances 	Risk of 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.	
Miscellaneous dangerous substances and articles 	Risk of burns. Risk of fire. Risk of explosion. Risk to 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 in column (3) of the table 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).

Additional guidance to members of the crew on the hazard characteristics of dangerous goods, indicated by marks, and on actions to be taken subject to prevailing circumstances		
Mark (1)	Hazard characteristics (2)	Additional guidance (3)
 Environmentally hazardous substances	Risk to the aquatic environment.	
 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 vessel 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.