

NOM-010-SCT2/1994.
COMPATIBILITY AND SEGREGATION PROVISIONS FOR THE
STORAGE AND TRANSPORT OF HAZARDOUS
SUBSTANCES, MATERIALS, AND WASTES

1. PURPOSE.

The purpose of this Official Mexican Standard is to set forth the compatibility and segregation provisions that must be applied for the transport of hazardous substances, materials, and wastes in order to protect the general lines of communication and the safety of their users.

2. FIELD OF APPLICATION.

This Official Mexican Standard applies compulsorily to the shippers, carriers and consignees of the hazardous substances, materials and wastes which transit through the general lines of land transportation.

3. REFERENCES.

For the correct implementation of this Official Mexican Standard, the following Official Mexican Standards must be consulted:

NOM-002-SCT2/1994	LIST OF THE MOST COMMONLY CARRIED HAZARDOUS SUBSTANCES AND MATERIALS.
NOM-003-SCT2/1994	DESCRIPTION OF THE LABELS FOR THE CONTAINERS AND PACKAGINGS INTENDED FOR THE TRANSPORT OF HAZARDOUS SUBSTANCES AND WASTES.
NOM-004-SCT2/1994	SYSTEM FOR THE IDENTIFICATION OF UNITS INTENDED FOR THE TRANSPORT OF HAZARDOUS MATERIALS AND WASTES.
NOM-009-SCT2/1994	COMPATIBILITY FOR THE STORAGE AND TRANSPORT OF HAZARDOUS SUBSTANCES, MATERIALS AND WASTES OF CLASS 1 EXPLOSIVES.

NOM-017-SCT2/1995 GENERAL GUIDELINES FOR THE LOADING, DISTRIBUTION AND SECUREMENT OF HAZARDOUS MATERIALS AND WASTES IN ROAD TRANSPORT UNITS.

NOM-018-SCT2/1994 GENERAL PROVISIONS FOR THE LOADING, PACKING AND UNLOADING OF HAZARDOUS MATERIALS AND WASTES IN RAILROAD HAULAGE UNITS.

NOM-CRP-001-ECOL/1993 ESTABLISHES THE CHARACTERISTICS OF THE HAZARDOUS WASTES AND THE LIMITS BEYOND WHICH A WASTE BECOMES HAZARDOUS TO THE ENVIRONMENT DUE TO ITS TOXICITY.

NOM-CRP-002-ECOL/1993 SETS FORTH THE PROCEDURE FOR CONDUCTING THE EXTRACTION TEST FOR DETERMINING THE CONSTITUENTS THAT MAKE A WASTE HAZARDOUS TO THE ENVIRONMENT DUE TO ITS TOXICITY.

NOM-CRP-003-ECOL/1993 SETS FORTH THE PROCEEDING FOR DETERMINING THE INCOMPATIBILITY BETWEEN 2 OR MORE WASTES CONSIDERED AS HAZARDOUS BY OFFICIAL STANDARD NOM-CRP-001-ECOL/1993.

NOM-EE-059 PACKAGES AND PACKAGINGS - SYMBOLS FOR HANDLING, TRANSPORT AND STORAGE.

4. DEFINITIONS.

Compatibility. - This refers to the feasibility of transporting, in the same vehicle unit and at the same time, different substances considered to be hazardous, without causing a risk in the event of a possible accidental reaction.

Incompatibility of Hazardous Wastes.- Violent reactions, which are harmful to the ecological balance and to the environment and which are caused as a result of the mixture of two or more hazardous wastes or substances. Hazardous substances must be removed from the contaminating parts, by any mechanical or chemical means involving the wet or dry process which does not endanger human health or the environment.

Segregation.- Separation of the hazardous substances, materials, and wastes whenever they represent a risk.

5. PROVISIONS FOR THE COMPATIBILITY AND SEGREGATION OF HAZARDOUS SUBSTANCES, MATERIALS, AND WASTES.

5.1 These provisions apply to the hazardous substances, materials, and wastes that fall under one or more classes of risk as set forth in Standard NOM-002-SCT2/1994, "LIST OF THE MOST COMMONLY CARRIED HAZARDOUS SUBSTANCES AND MATERIALS," and which are:

5.1.1. In containers and packagings that need to be labelled in accordance with Standard NOM-003-SCT2/1994.

5.1.2. In a compartment inside a multi-compartment cargo tank or tank truck, subject to all the restrictions indicated in Standards NOM-017-SCT2/1995 and NOM-018-SCT2/1994.

5.1.3. In a portable tank loaded onto a transport vehicle or freight container.

5.2 Whenever a transport vehicle is to be transported by ship, or by others means such as ferries, the hazardous materials on or inside the transport vehicle must be stowed and segregated in accordance with the Maritime Regulations applicable to such cases.

5.3 The hazardous substances, materials and wastes must not be loaded, carried or stowed together, except as indicated in this Standard and in accordance with the Segregation Table which is described in detail in the following section.

5.4 Instructions for using the Segregation Table of Hazardous Substances, Materials, and Wastes:

5.4.1. The absence of any class or division of risk or a blank space in the Table indicates that no restrictions whatsoever apply to the segregation of the hazardous material. For Classes 6.2 and 9, consult the respective Official Mexican Standards.

5.4.2. The letter "X" in the Table indicates that the hazardous substances, materials, and wastes must not be loaded, transported or stored together in the same transport vehicle or storage facility during transportation.

5.4.3. The letter "O" in the Table indicates that the hazardous substances, materials, and wastes must not be loaded, transported, or stored together in the same transport vehicle or storage facility, during transportation, unless they are separated in such a way that, in case of leakage

of containers and packagings such as normally occurs under the conditions incident to transport; by a distance of 4 feet (1.2 m) in all directions and are kept contained and packaged, such as on skids, with a minimum height of 4 in. (10 cm) from the floor of the transport vehicle, or separated in such a way that, in case of leakage of the packages under the normal conditions of a transportation incident, no mixture of the hazardous materials would occur, regardless of the separation methods used. For example: Class 8 Corrosives must not be transported above or together with Class 4 Flammable Solids or Class 5 Oxidizers and Organic Peroxides, only full trucks shall be loaded with those materials together, whenever mixing of the content cannot cause fire or a dangerous evolution of heat or gas.

- 5.4.4. The "*" in the Table indicates that the compatibility between different materials of Class 1 Explosives is standardized by the Table for Standard NOM-009-SCT2/1994, "COMPATIBILITY FOR THE STORAGE AND TRANSPORT OF HAZARDOUS SUBSTANCES, MATERIALS, AND WASTES OF CLASS 1 EXPLOSIVES."
- 5.4.5. The letter "A" in the second column of the Table means that, regardless of the requirements for Letter "X", the ammonium nitrate fertilizer can be loaded, transported or stored with Division 1.1 (Class A Explosives) or Division 1.5 (Explosive Agents).
- 5.4.6. Whenever Standard NOM-002-SCT2/1994 requires that a container and packagings have a secondary-risk label, the segregation appropriate for the secondary risk must be observed if it is more restrictive than the segregation required for the primary hazard. Nevertheless, the hazardous materials of the same class may be stored together without having to take into consideration the segregation required in any secondary risk, provided that the materials are incapable of reacting hazardously with each other, causing their combustion or a dangerous generation of heat, development of fire, poisoning, or asphyxiating gases, or the formation of corrosive or unstable materials.
- 5.5. In addition to what is indicated in the Table, cyanides or cyanide mixtures may not be loaded or stored with acids.
- 5.6. Materials of Class 1 (Explosives) may not be loaded, transported or stored together, except as provided in this Standard, as well as in the table of Official Mexican Standard NOM-009-SCT2/1994.

SEGREGATION TABLE FOR HAZARDOUS SUBSTANCES, MATERIALS AND WASTES.

CLASS		CLASS OR DIVISION.	NOTES	1.1 1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3 ZONE A	2.3 ZONE B	3	4.1	4.2	4.3	5.1	5.2	6.1 ZONE A	7	8 LI QU IDS	
1	EXPLOSIVES * ADD DIV. No. AND COMPATIBILITY GROUP.	1.1 AND 1.2	A	*	*	*	*	*	X	X	X	X	X	X	X	X	X	X	X	X	X	
		1.3		*	*	*	*	*	X		X	X	X		X	X	X	X	X		X	
	EXPLOSIVES * ADD COMPATIBILITY GROUP.	1.4		*	*	*	*	*	0		0	0	0		0				0		0	
	VERY INSENSITIVE EXPLOSIVES	1.5	A	*	*	0	*	*	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	EXTREMELY INSENSITIVE EXPLOSIVES	1.6		*	*	*	*	*														
2	FLAMMABLE GASES	2.1		X	X	0	X				X	0							0	0		
	NON-TOXIC, NON-FLAMMABLE GASES	2.2		X			X															
	POISONOUS GAS, ZONE A	2.3		X	X	0	X		X				X	X	X	X	X	X			X	
	POISONOUS GAS, ZONE B	2.3		X	X	0	X		0				0	0	0	0	0	0			0	

CLASS		CLASS OR DIVISION	NOTES	1.1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3 ZONE A	2.3 ZONE B	3	4.1	4.2	4.3	5.1	5.2	6.1	7	8
3	FLAMMABLE LIQUIDS	3		X	X	0	X				X	0					0		X		
4	FLAMMABLE SOLIDS	4.1		X			X				X	0							X		0
	SPONTANEOUSLY COMBUSTIBLE MATERIALS	4.2		X	X	0	X				X	0							X		X
	DANGEROUS WHEN WET MATERIALS	4.3		X	X		X				X	0							X		0
5	OXIDIZERS	5.1	A	X	X		X				X	0	0						X		0
	ORGANIC PEROXIDES	5.2		X	X		X				X	0							X		0
6	EXTREMELY POISONOUS LIQUIDS	6.1		X	X	0	X		0				X	X	X	X	X	X			X
7	RADIOACTIVE MATERIALS	7		X			X		0												
8	CORROSIVE LIQUIDS	8		X	X	0	X				X	0		0	X	0	0	0	X		

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