

**OFFICIAL MEXICAN STANDARD  
NOM-009-SCT2/1994  
COMPATIBILITY FOR THE STORAGE  
AND TRANSPORT OF HAZARDOUS  
MATERIALS AND WASTES  
OF CLASS 1 - EXPLOSIVES.**

**1. PURPOSE.**

The purpose of this Official Mexican Standard is to set forth the compatibility criteria to be used for the transport of hazardous materials and wastes of Class 1 - Explosives[,] so as to protect the general lines of communication and ensure the safety of their users.

**2. APPLICABILITY.**

This Official Mexican Standard applies compulsorily to the shippers, carriers and consignees of hazardous materials and residues of Class 1 - Explosives, which are intended to be moved through the general lines of land communication.

**3. REFERENCES.**

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

NOM-002-SCT2-94	LISTING OF THE MOST COMMONLY TRANSPORTED SUBSTANCES AND MATERIALS.
NOM-003-SCT2-94	CHARACTERISTICS OF THE LABELS OF PACKAGES AND PACKAGINGS INTENDED FOR THE TRANSPORT OF HAZARDOUS SUBSTANCES AND MATERIALS.
NOM-004-SCT2-94	SYSTEM FOR THE IDENTIFICATION OF UNITS INTENDED FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES.
NOM-025-SCT2-94	SPECIAL PROVISIONS FOR HAZARDOUS SUBSTANCES, MATERIALS AND WASTES OF CLASS 1 - EXPLOSIVES.

NOM-CRP-001-ECOL-93	WHICH SETS FORTH THE CHARACTERISTICS OF HAZARDOUS WASTES, PROVIDES A LISTING OF SAID WASTES, AND ESTABLISHES THE LIMITS AT WHICH A WASTE BECOMES HAZARDOUS BY VIRTUE OF ITS ENVIRONMENTAL TOXICITY.
NOM-CRP-002-ECOL-93	WHICH SETS FORTH THE PROCEDURE FOR CONDUCTING THE EXTRACTION TEST TO DETERMINE THE CONSTITUENTS WHICH MAKE A WASTE HAZARDOUS BY VIRTUE OF ITS ENVIRONMENTAL TOXICITY.
NOM-CRP-003-ECOL-93	WHICH SETS FORTH THE PROCEDURE FOR DETERMINING THE INCOMPATIBILITY BETWEEN TWO OR MORE WASTES CONSIDERED AS HAZARDOUS BY THE OFFICIAL MEXICAN STANDARD NOM-CRP-001-ECO/1993.

#### **4. DEFINITIONS.**

Compatibility.- Compatibility means the feasibility of transporting together different hazardous substances, materials or wastes of Class 1, without any likelihood of a reaction.

Incompatibility of Hazardous Wastes.- Reactions which are violent and negative for the ecological balance and the environment, and occur as a result of two or more hazardous wastes or substances becoming mixed together.

Segregation.- Separating of the hazardous substances, materials and wastes whenever they present a risk.

Primary explosives.- Explosive substances which are highly sensitive to heat, impact and friction and which detonate or burst very rapidly, even in very small quantities.

Propellants.- Substances which, with or without a casing, are used as a component in rocket engines or to reduce the drag in projectiles.

Secondary explosives.- Explosive substances which are relatively insensitive (compared with the primary explosives) and which are commonly activated by primary explosives, whether or not reinforced by multiplying or supplementary loads. They can react as deflagrating or detonating explosives.

Deflagrating explosives.- Substances which, upon being initiated and used in their normal form, react without producing any detonation.

**5. COMPATIBILITY CRITERIA FOR THE STORAGE AND TRANSPORT OF CLASS 1 EXPLOSIVES.**

- 5.1 Hazardous substances, materials and wastes of Class 1 Explosives must not be loaded, transported or stored together, except as indicated in this Standard and as provided in Table 1.
- 5.2 Instructions for the use of Table 1, Compatibility for Hazardous Substances, Materials and Wastes in Class 1 Explosives.
  - 5.2.1 A blank space in Table 1 indicates that there are no storage or compatibility restrictions for the transport of said explosive.
  - 5.2.2 The letter "X" in the Table indicates that explosives of different compatibility groups must not be transported in the same vehicle.
  - 5.2.3 The number "1" means that an explosive of the compatibility group L must be transported only with an identical explosive in the same vehicle.
  - 5.2.4 The number "2" means that any combination of explosives of compatibility groups C, D or E is assigned to compatibility group E.
  - 5.2.5 The number "3" means that any combination of explosives of compatibility groups C, D or E, together with explosives of compatibility groups N, are assigned to compatibility group D.
  - 5.2.6 The number "4" means that any primary initiator may be transported in the same motor vehicle with any of the materials of Divisions 1.1, 1.2 or 1.3, except other primary initiators or detonators, deflagrating agents or detonating cord, and materials of Division 1.4 such as, for example:
    - 5.2.6.1 Non-detonating initiators, which may be transported in the same motor vehicle together with any of the materials in Division 1.1, 1.2 or 1.3 (except other detonating initiators or detonators), blasting agents or detonating cord and materials in Division 1.4, provided that:
      - 5.2.6.1.1 It is contained and packed in a receptacle which complies with the package and packaging requirements described in item 10 of Standard NOM-025-SCT2-1994, Special Provisions for Hazardous Substances, Materials and Wastes of Class 1

Explosives, and [it is used] restrictively, for example, when no materials of Division 1.1, 1.2 or 1.3 or explosive agents are loaded into the motor vehicle, or a separation of 61 cm (24 inches) must be maintained between each load of detonators and each detonating cord package and packaging.

- 5.2.7 The number "5" means that fireworks of Division 1.4 cannot be loaded into the same transport vehicle as materials of Division 1.1 or 1.2 (Class A Explosives).
- 5.2.8 Except as indicated in paragraph 5.2.3 of this Standard, explosives of the same compatibility group but different divisions may be transported together, unless the entire shipment is transported as if its whole contents were of the lower numerical division (for example, Division 1.1. shall be lower than Division 1.2). Another example is, if a mixed load is comprised of materials of Division 1.2 and materials of Division 1.4, both being under compatibility group D, they must be transported as materials of Division 1.2. When materials of Division 1.5 and compatibility group D are transported in the same motor vehicle as a material of Division 1.2 and compatibility group D, the shipment must be transported as material of Division 1.1 and compatibility Group D.

**TABLE 1. COMPATIBILITY FOR THE HAZARDOUS SUBSTANCES,  
MATERIALS AND WASTES OF CLASS 1 EXPLOSIVES.**

COMPATIBILITY GROUP	A	B	C	D	E	F	G	H	J	K	L	N	S
A.....		X	X	X	X	X	X	X	X	X	X	X	X
B.....	X		X	4	X	X	X	X	X	X	X	X	4/5
C.....	X	X		2	2	X	X	X	X	X	X	3	4/5
D.....	X	4	2		2	X	X	X	X	X	X	3	4/5
E.....	X	X	2	2		X	X	X	X	X	X	3	4/5
F.....	X	X	X	X	X		X	X	X	X	X	X	4/5
G.....	X	X	X	X	X	X		X	X	X	X	X	4/5
H.....	X	X	X	X	X	X	X		X	X	X	X	4/5
J.....	X	X	X	X	X	X	X	X		X	X	X	4/5
K.....	X	X	X	X	X	X	X	X	X		X	X	4/5
L.....	X	X	X	X	X	X	X	X	X	X		1	X
N.....	X	X	3	3	3	X	X	X	X	X	X		4/5
S.....	X	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	X		

Source: CFR-49, Part 177.848.

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