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Since 2008

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U.S. Department
of Transportation
**Pipeline and
Hazardous Materials
Safety Administration**



SECURITY REQUIREMENTS

and Considerations for Hazardous Materials Transportation

3082

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1824

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SECTION 01

DO I NEED A SECURITY PLAN?

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The Department of Transportation’s (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) is responsible for the safe and secure transportation of hazardous materials (hazmat). Millions of tons of hazmat are safely transported by air, rail, highway, or vessel every day, in quantities ranging from several ounces to thousands of gallons. While essential, these materials pose inherent safety risks in transportation, which is why they are regulated under the Hazardous Materials Regulations ([HMR; 49 CFR Parts 171 - 180](#)). For certain quantities and types of hazmat, security measures are required to ensure the safety of shippers, carriers, and the general public.

This resource explains: when you need a security plan, how to make a security plan and what it should include, who manages the logistics around the security plan, and the necessary training requirements for commercial hazmat.

DO I NEED A SECURITY PLAN?

You **must** develop and implement a security plan if you offer for transportation or transport the types or quantities of hazmat listed in the table below (§ 172.800(b)).

ARE YOU A FARMER?

See § 172.800(c) for details on the agricultural exception.

HAZARD CLASS / HAZARD DIVISION	THRESHOLD FOR SECURITY PLAN
1.1: Explosives	Any quantity
1.2: Explosives	Any quantity
1.3: Explosives	Any quantity
1.4: Explosives	A quantity requiring placarding**
1.5: Explosives	A quantity requiring placarding**
1.6: Explosives	A quantity requiring placarding**
2.1: Flammable Gas	A large bulk quantity*
2.2: Non-Flammable/Non-Poisonous Gas	A large bulk quantity of materials with an oxidizer (Div. 5.1) subsidiary hazard*
2.3 Gas, Poisonous by Inhalation	Any quantity

HAZARD CLASS / HAZARD DIVISION	THRESHOLD FOR SECURITY PLAN
3: Flammable Liquid	Packing Group (PG) I and II in a large bulk quantity; placarded quantity desensitized explosives. Security plan not required for PG III, or less than 3,000 L (792 gallons) PG I or II except for desensitized explosives*
4.1: Flammable Solid	A quantity of desensitized explosives requiring placarding**. Security plan not required except for desensitized explosives in a placarded quantity
4.2: Spontaneously Combustible Material	PG I and II in a large bulk quantity. Security plan not required for PG III, or less than 3,000 kg (6,614 lbs.) PG I or II*
4.3: Dangerous When Wet Material	A quantity requiring placarding**
5.1: Oxidizer	Large bulk quantity of Division 5.1 materials in PG I and II, and PG III perchlorates, ammonium nitrate, ammonium nitrate fertilizers, or ammonium nitrate emulsions or suspensions or gels in a large bulk quantity*
5.2: Organic Peroxide	Security plan only required for any quantity of organic peroxide, Type B, liquid or solid, temperature controlled
6.1: Poisonous Material	A large bulk quantity of a Div. 6.1 Poisonous material, and any quantity of a poisonous by inhalation material (see Div. 2.3, above)*
6.2: Infectious Substance	Select agents or toxins regulated by the Centers for Disease Control and Prevention (42 CFR part 73) or the U.S. Department of Agriculture (9 CFR part 121)
7: Radioactive	Security plan only required for Class 7 materials that pose transportation security risk: IAEA Categories 1 & 2; HRCQ; known radionuclides in forms listed as RAMQC by NRC; or a quantity of uranium hexafluoride requiring placarding under § 172.505(b)
8: Corrosive Material	PG I in a large bulk quantity; security plan not required for PG II or III materials*
9: Miscellaneous Hazmat	Security plan not required for Class 9 materials

* "Large bulk quantity" refers to a quantity greater than 3,000 kg. (6,614 lbs.,) for solids or 3,000 liters (792 gal.,) for liquids and gases in a single packaging such as a cargo tank motor vehicle, portable tank, tank car, or other bulk container.

** Placarding quantities defined in 49 CFR, Part 172, Subpart F