



Shipping of hazard materials

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Introduction for Shipping of hazard materials

Hazardous Materials : are **solids, liquids, or gases** that can harm people, other living organisms, property, or the environment if improperly shipped, stored, or handled.





Hazardous Materials like explosives, gases, toxic materials, and radioactive materials to more seemingly minor products like hair spray that still pose a shipping and handling risk. Each of these classes has a specific sub class that also provides more details on the classification.

Hazardous Materials Divided to:

Class 1: Explosives

Class 2: Gases

Class 3: Flammable liquids

Class 4: Flammable solids

Class 5: Oxidizers/organic peroxides

Class 6: Toxic and infectious substances

Class 7: Radioactive materials

Class 8: Corrosives

Class 9: Miscellaneous hazardous materials



Miscellaneous hazardous materials

Category	Properties
M1	Substances which, on inhalation as fine dust, may endanger health
M2	Substances and articles which, in the event of fire, may form dioxins
M3	Substances evolving flammable vapors
M4	Lithium batteries
M5	Life-saving appliances
M6 - M8	Environmentally hazardous substances: M6: Pollutant to the aquatic environment, liquid M7: Pollutant to the aquatic environment, solid M8: Genetically modified microorganisms and organisms
M9 - M10	Elevated temperature substances: M9: Liquid M10: Solid
M11	Other substances and articles presenting a danger during carriage, but not meeting the definitions of another class.



Nine Classes of Hazardous Materials

Class 1: Explosives

Divisions: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6



Class 6: Poison (Toxic) and Poison Inhalation Hazard

Class 2: Gases

Divisions: 2.1, 2.2, 2.3



Class 7: Radioactive

Class 3: Flammable Liquid and Combustible Liquid



Class 8: Corrosive

Class 4: Flammable Solid, Spontaneously Combustible, and Dangerous When Wet

Divisions 4.1, 4.2, 4.3



Class 9: Miscellaneous

Class 5: Oxidizer and Organic Peroxide

Divisions 5.1, 5.2



Dangerous

Revised 04/13

How To Ship Hazardous Materials?

Shipping hazardous materials can be **a complicated process**, as there are serious implications for getting it wrong. In order to ship hazardous materials, you need to follow **a few key steps**:

- 1 Classify the material
- 2 Contact top carriers
- 3 Select appropriate packaging
- 4 Mark and label your package
- 5 Prepare shipping papers
- 6 Identify additional carrier requirement.





Shipping hazardous materials considered **a complex and expensive process?**

- Because there are so many rules and regulations required.

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