



Hazardous Materials (HAZMAT)

Hazardous Materials (HAZMAT) also called Dangerous Goods are substances or materials – liquid, solid or gases defined as harmful for the people, living organisms, property and environment when transported internationally. Dangerous goods (HAZMAT) include flammable, corrosive, explosive, oxidising, radioactive, asphyxiating, toxic, toxic, bio hazardous, pathogenic, or allergenic hazardous materials.

Classification of dangerous goods

For all modes of transport (sea, air, rail, road and inland waterways) the classification (grouping) of dangerous goods, by type of risk involved, has been drawn up by the UNITED NATIONS Committee of Experts on the Transport of Dangerous Goods (UN).

Dangerous Goods Terms & Classes in Ocean Freight Transportation

IMO Class - International Maritime Organization hazardous materials class

The Carriage of dangerous goods and marine pollutants in sea-going ships is respectively regulated in the International Convention for the Safety of the Life at Sea (SOLAS) and the International Convention for the prevention of pollution from Ships (MARPOL). Relevant parts of both SOLAS & MARPOL have been worked out in great detail and are included in the International Maritime Dangerous Goods (IMDG) Code, thus making this Code the legal instrument for maritime transport of dangerous goods and maritime pollutants.

UN Number - United Nations Number

This is internationally recognized number assigned to a specific class or material or dangerous cargo.

FLASH POINT

Temperature at which the material can be ignited or vaporize to form an ignitable mixture in air.

Dedication-Aggressive-Penetration-Perfection-Efficient-Reliable



Class 1
Explosives



Class 2
Gases



Class 3
Flammable Liquids



Class 4.1
Flammable Solids or Substances

Class 4.2
Flammable solids



Class 4.3
Substances which in contact with water emit flammable gases

Dedication-Aggressive-Penetration-Perfection-Efficient-Reliable



Class 5.1

Oxidizing substances (agents) by yielding increase the risk and intensity of fire



Class 5.2

Organic peroxides - most will burn rapidly and are sensitive to impact or friction

Class 6.1

Toxic substances



Class 6.2

Infectious substances

Class 7

Radioactive Substances



Class 8

Corrosives



Class 9

Misc. dangerous substances and articles





Lithium Battery Labels



Drum & Cylinder Labels



C/Corrosive



E/Explosive



F/Flammable



N/Environmental Hazard



O/Oxidising



T/Toxic



Xi/Irritant

PACKING GROUP - Specify the level of protective material required

Packing Group I - Most protective packing required - great danger

Packing Group II - Medium danger

Packing Group III - Small danger

Dedication-Aggressive-Penetration-Perfection-Efficient-Reliable