HS619

The Nine Classes of Dangerous Goods



EXPLOSIVE 1
FLAMMABLE GAS 2
NON-FLAMMABLE NON-TOXIC GAS 2
OXIDIZING GAS 2
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TOXIC GAS 2

Class 3 Flammable liquid	
Packing Group 1 (greatest danger) e.g. ➤ Carbon disulphide, Diethyl ether Packing Group 2 ➤ Acetone, Methanol, Ethanol Packing Group 3 ➤ Xylene, Chloroform, Dichloromethane	FLAMMABLE LIQUID 3
4 Class 4 Flammable Solids	
4.1 Flammable solids readily combustible and may cause fire due to friction e.g. magnesium metal, alkali metals	FLAMMABLE SOLID
4.2 Substances liable to Spontaneous Combustion	· · · · · · · · · · · · · · · · · · ·
e.g. white phosphorous and potassium metal	SPONTANEOUSLY COMBUSTIBLE 4
4.3 Substance that in contact with water emit flammable	
gases which can form explosive mixtures in air e.g. white phosphorous, calcium carbide, magnesium, lithium, sodium	DANGEROUS WHEN WET 4
5 Class 5.1 Oxidising Substances	
Oxidising substances are not necessarily combustible may readily liberate Oxygen and increase the violence of a fire	
e.g. Calcium hypochlorite, ammonium nitrate	OXIDIZING AGENT 5.1
6 <u>Class 5.2 Organic Peroxides</u>	
Materials that may be liable to explosive decomposition may burn rapidly and are sensitive to impact or friction.	ORGANIC PEROXIDE 5.2
e.g. dibenzoyl peroxide	

 7 <u>Class 6.1 Toxic Substances</u> Also divided into 3 packing groups: Packing group 1 (greatest danger, Packing group 2 and Packing group 3) e.g. Ethidium bromide, benzene, mercury, pesticides, arsenic 	TOXIC 6
8 <u>Class 6.2 Infectious Substances</u> e.g. vaccines, pathology specimens	INFECTIOUS SUBSTANCE 6
9 <u>Class 7 Radioactive substances</u>	RADIOACTIVE 7
10 <u>Class 8 Corrosive Substances</u> e.g. Hydrochloric acid, Sulphuric acid, Hydrofluoric acid, Sodium Hydroxide, Amines	CORROSIVE
 11 <u>Class 9 Miscellaneous</u> Non-specific classification includes substances that have potentially dangerous properties that are relatively minor or are not covered by other classes e.g. polychlorinated biphenyls, lithium batteries 	MISCELLANEOUS DANGEROUS GOODS 9