










GHS Elements

Compared to the current US system the most noticeable change are the pictograms (formerly: NFPA hazard diamond), which you will see on the SDS and labels.

The GHS System is built on 16 physical, 10 health and 3 environmental hazard classes and comprises the following communication elements:

9 Pictograms

Description	Pictogram	Hazard class and hazard category:
Exploding Bomb		Unstable explosives Explosives of Divisions 1.1, 1.2, 1.3, 1.4 Self-reactive substances and mixtures, Types A,B Organic peroxides, Types A,B
Flame		Flammable gases, category 1 Flammable aerosols, categories 1,2 Flammable liquids, categories 1,2,3 Flammable solids, categories 1,2 Self-reactive substances and mixtures, Types B,C,D,E,F Pyrophoric liquids, category 1 Pyrophoric solids, category 1 Self-heating substances and mixtures, categories 1,2 Substances and mixtures, which in contact with water, emit flammable gases, categories 1,2,3 Organic peroxides, Types B,C,D,E,F
Flame Over Circle		Oxidizing gases, category 1 Oxidizing liquids, categories 1,2,3
Gas Cylinder		Gases under pressure: - Compressed gases - Liquefied gases - Refrigerated liquefied gases - Dissolved gases
Corrosion		Corrosive to metals, category 1 Skin corrosion, categories 1A,1B,1C Serious eye damage, category 1

Skull and Crossbones		Acute toxicity (oral, dermal, inhalation), categories 1,2,3
Exclamation Mark		Acute toxicity (oral, dermal, inhalation), category 4 Skin irritation, category 2 Eye irritation, category 2 Skin sensitization, category 1 Specific Target Organ Toxicity – Single exposure, category 3
Health Hazard		Respiratory sensitization, category 1 Germ cell mutagenicity, categories 1A,1B,2 Carcinogenicity, categories 1A,1B,2 Reproductive toxicity, categories 1A,1B,2 Specific Target Organ Toxicity – Single exposure, categories 1,2 Specific Target Organ Toxicity – Repeated exposure, categories 1,2 Aspiration Hazard, category 1
Environment		Hazardous to the aquatic environment - Acute hazard, category 1 - Chronic hazard, categories 1,2

In addition, there are 2 Signal words you will see on SDS and labels:

"Danger"

"Warning"

Within a specific hazard class, “Danger” is used for more severe hazards and “Warning” is used for the less severe hazards. There will only be one signal word on the label no matter how many hazards a chemical may have. If one of the hazards warrants a “Danger” signal word and another warrants a signal word “Warning,” then only “Danger” will appear on the label.