

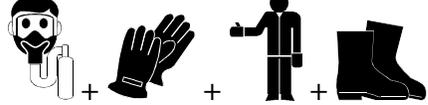
Hazardous Materials Information System

The Hazardous Materials Information System (HMIS) is a color and number system. The system uses a color-coded square with four rows in which numbers are used to signal the degree of health hazard, flammability hazard, and reactivity hazard. A letter in the bottom row is used to indicate the personal protective equipment that should be used with the chemical. Refer to the HMIS Personal Protection Index. An asterisk (*) indicates chronic health hazards are associated with the chemical.



Hazard Rating	Health Hazard (blue)	Flammability Hazard (red)	Reactivity Hazard (yellow)
4 Severe Hazard	Substance considered highly toxic under OSHA's Hazard Communication Standard.	Substance considered a flammable liquid under OSHA's Hazard Communication Standard.	Substance that in itself is readily capable of detonation or explosive decomposition or explosive reaction at normal temperatures and pressures. This includes substances that are sensitive to localized thermal or mechanical shock at normal temperatures and pressures. Substance considered explosive under OSHA's Hazard Communication Standard.
3 Serious Hazard	Substance considered highly toxic under OSHA's Hazard Communication Standard. Substances can be severely irritating or corrosive to skin. Substances can be corrosive and cause irreversible destruction to eyes.	Substance considered a flammable liquid under OSHA's Hazard Communication Standard.	Substance that in itself is capable of detonation or explosive reaction, but that require a strong initiating source or must be heated under confinement before initiation. Substance considered explosive under OSHA's Hazard Communication Standard.
2 Moderate Hazard	Substance considered toxic under OSHA's Hazard Communication Standard. Substances moderately irritating and considered to be a primary skin irritant or sensitizer. Substances moderately to severely irritating to the eyes. May be reversible.	Substance considered a combustible liquid under OSHA's Hazard Communication Standard.	Substance normally undergoes a violent chemical change at elevated temperatures and pressures. Substance considered explosive under OSHA's Hazard Communication Standard.
1 Slight Hazard	Substance not considered toxic under OSHA's Hazard Communication Standard. Substances slightly or mildly irritating to the skin. Slightly or mildly irritating to the eyes and reversible within 7 days.	Substance considered a combustible liquid under OSHA's Hazard Communication Standard.	Normally stable material but becomes unstable at elevated temperatures and pressures. Substance considered explosive under OSHA's Hazard Communication Standard.
0 Minimal Hazard	Substance not considered toxic under OSHA's Hazard Communication Standard. Essentially non-irritating to the skin and eyes.	Substance will not burn. Substance not considered flammable or combustible under OSHA's Hazard Communication Standard.	Normally stable materials that do not react with water. Substance not considered explosive under OSHA's Hazard Communication Standard.

HMIS Personal Protection Index

A		Safety glasses
B		Safety glasses and gloves
C		Safety glasses, gloves, and apron
D		Face shield, eye protection, gloves, and apron
E		Safety glasses, gloves, dust respirator
F		Safety glasses, gloves, apron, and dust respirator
G		Safety glasses, gloves, vapor respirator
H		Splash goggles, gloves, apron, and vapor respirator
I		Safety glasses, gloves, dust and vapor respirator
J		Splash goggles, gloves, apron, dust and vapor respirator
K		Airline hood or mask, gloves, full suit, and boots


A - Safety glasses


N - Splash goggles


O - Face Shield & Eye Protection


P - Gloves


Q - Boots


R - Apron


S - Full Suit


T - Dust mask


U - Vapor Respirator


W - Dust & Vapor Respirator


Y - Full Face Respirator


Z - Airline Hood or Mask