

GHS (GLOBALLY HARMONIZED SYSTEM)

WHAT ARE GHS?

The **Globally Harmonized System of Classification and Labelling of Chemicals (GHS)** is an internationally agreed-upon standard managed by the United Nation that was set up to replace the assortment of hazardous material classification and labelling schemes previously used around the world.

Since 2017, **PT Multikimia Intipelangi** has used the GHS system for labeling and safety data sheets, especially the fifth revised edition, United Nations 2013.

GHS SCOPE:

- a) Harmonized criteria for classifying substances and mixtures according to their health, environmental, and physical hazards.
- b) Harmonized hazard communication elements, including requirements for labelling and safety data sheet.

The GHS classification system is a complex system with data obtained from tests, literature, and practical experience. The main elements of the hazard classification criteria are:

1. Physical hazards

- Explosives.
- Flammable gases.
- Aerosols
- Oxidizing gases
- Pyrophoric liquids.
- Pyrophoric solids.
- Self-heating substances and mixtures.
- Substances and mixtures which, in contact with water emit flammable gases.
- Gases under pressure.
- Oxidizing liquids.
- Oxidizing solids.
- Organic peroxides.
- Corrosive to metals.
- Flammable liquids.
- Flammable solids.
- Self-reactive substances and mixtures

2. Health hazards

- Acute toxicity.
- Skin corrosion/irritation.
- Serious eye damage/eye irritation.
- Respiratory or skin sensitization.
- Germ cell mutagenicity.
- Carcinogenicity.
- Reproductive toxicity.
- Specific target organ toxicity - single exposure.
- Specific target organ toxicity - repeated exp.
- Aspiration hazard.

3. Environmental hazards

- Hazardous to the aquatic environment (acute and chronic).
- Hazardous to the ozone layer.

SYMBOL (GHS PICTOGRAM) :

		
<p>Health Hazard</p> <ul style="list-style-type: none"> • Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity 	<p>Flame</p> <ul style="list-style-type: none"> • Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides 	<p>Exclamation Mark</p> <ul style="list-style-type: none"> • Irritant (skin and eye) • Skin Sensitizer • Acute Toxicity • Narcotic Effects • Respiratory Tract Irritant • Hazardous to Ozone Layer (Non-Mandatory)
		
<p>Gas Cylinder</p> <ul style="list-style-type: none"> • Gases Under Pressure 	<p>Corrosion</p> <ul style="list-style-type: none"> • Skin Corrosion / Burns • Eye Damage • Corrosive to Metals 	<p>Exploding Bomb</p> <ul style="list-style-type: none"> • Explosives • Self-Reactives • Organic Peroxides
		
<p>Flame Over Circle</p> <ul style="list-style-type: none"> • Oxidizers 	<p>Environment</p> <ul style="list-style-type: none"> • Aquatic Toxicity 	<p>Skull and Crossbones</p> <ul style="list-style-type: none"> • Acute Toxicity (fatal or toxic)