

# What is GHS?

**G**lobally **H**armonised **S**ystem



**Globally harmonised  
communication about  
hazardous chemicals**

New communication elements (pictograms, signal words...)



New classification criteria and labels,  
safety data sheets according to REACH

# What is GHS?

## Globally Harmonised System



Current label

**Methanol (solvent)**

Highly flammable.

Toxic by inhalation, in contact with skin and if swallowed.

Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Keep container tightly closed. Keep away from sources of ignition - No smoking.

Wear suitable protective clothing and gloves. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

2001

Example Chemistry Inc.  
1111 Example City  
Tel: +44 555555

EC no. 200-659-6  
EC label

R 11  
R 23/24/25  
R 39/23/24/25  
S 7  
S 16  
S 36/37  
S 45

New label according to GHS draft regulation

**Methanol (solvent)**  
(603-001-00-X)

Highly flammable liquid and vapour.

Toxic if swallowed.  
Toxic in contact with skin.  
Toxic if inhaled.

Causes damage to eyes - May cause blindness.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Store in a well ventilated place. Keep container tightly closed.

Wear protective gloves/clothing.

If on skin: Wash with plenty of soap and water.

If swallowed: Immediately call a poison centre or doctor/physician.

Store locked up.

2001

H 225  
H 301  
H 311  
H 331  
H 370

P 210  
P 403/233  
P 280  
P 302/352  
P 301/310  
P 401

**Danger**

Example Chemistry Inc.  
1111 Example City  
Tel: +44 555555

## New Labelling

New pictograms and signal words



New Classification Criteria,  
Safety Data Sheets according to REACH

# GHS – Physical hazards

## Danger symbols and indications of danger today



R 2  
R 3  
[R 5]  
[R 6]  
Explosive

**NO LABELLING**



R 12  
Extremely flammable



R 11  
Highly flammable

**NO SYMBOL R 10**

**NO LABELLING**  
In the flash point range of 56°C to 60°C



R 17  
Highly flammable



R 15  
Highly flammable

**NO LABELLING**



R 7  
Oxidising



R 9  
R 8  
Oxidising

**NO LABELLING**

## Physical hazards according to GHS

**Unstable explosives**  
Explosives, Division 1.1 to 1.3  
Self-reactive substances and mixtures, Type A (Type B)  
Organic peroxides, Type A (Type B)

Explosives, Division 1.4

**Extremely flammable liquids, vapours, gases and aerosols**

**Highly flammable liquids and vapours**

**Flammable liquids, vapours and aerosols**

**Pyrophoric liquids and solids**

**Substances and mixtures which, in contact with water, emit flammable gases, cat. 1, 2, 3**

**Self-heating substances and mixtures, cat. 1, 2**  
**Self-reactive substances and mixtures, Type B, C and D; Type E and F**


**Organic peroxides, Type B, C and D; Type E and F**

**Oxidising liquids, categorie 1, 2 and categorie 3**


**Gases under pressure**

**Corrosive to metals**


## Label elements according to GHS




H 200  
H 201, H 202, H 203  
H 240 (H 241)  
H 240 (H 241)  
Danger



H 204  
Warning



H 224  
H 220  
H 222  
Danger




H 225  
Warning



H 226  
H 223  
Warning


H 250

H 260  
H 261  
H 261



H 251  
H 252  
Danger  
Warning


H 241  
H 242  
H 242



H 271  
H 272  
Danger  
Warning



H 280  
H 281  
Warning



H 290  
Warning

Warning: This poster is a non-exhaustive overview of the GHS draft regulation.

# GHS – Health hazards

## Danger symbols and indications of danger today



R 26  
R 27  
R 28  
Very toxic



R 23  
R 24  
R 25  
Toxic



R 39  
R 48  
R 45  
R 49  
R 46  
R 60  
R 61  
Toxic

R 42  
R 65



R 68  
R 48  
R 40  
R 68  
R 62  
R 63  
Harmful

R 20  
R 21  
R 22



R 34  
R 35  
Corrosive



R 41  
Irritant



R 36  
R 37  
R 38  
R 43  
Irritant

No SYMBOL R 67

## Health hazards according to GHS

**Acute toxicity**  
Fatal if inhaled, in contact with skin and if swallowed

**Acute toxicity**  
Toxic if inhaled, in contact with skin and if swallowed

**Specific target organ toxicity, single or repeated exposure**  
**Carcinogenicity**  
**Germ cell mutagenicity**  
**Reproductive toxicity**

**Respiratory sensitisation**  
**Aspiration hazard**

**Specific target organ toxicity, single or repeated exposure**  
**Carcinogenicity**  
**Germ cell mutagenicity**  
**Reproductive toxicity**

**Acute toxicity**  
Harmful if inhaled, in contact with skin and if swallowed

**Skin corrosion**

**Causes serious eye damage**

**Causes serious eye irritation**  
**Specific target organ toxicity, single exposure (may cause respiratory irritation)**  
**Skin irritation**  
**Skin sensitisation**

**Specific target organ toxicity, single exposure (may cause drowsiness and dizziness)**

## Label elements according to GHS



H 330  
H 310  
H 300



Danger  
H 331  
H 311  
H 301



H 370  
H 372  
H 350  
H 350  
H 340  
H 360  
H 360



Danger  
H 334  
H 304



H 371  
H 373  
H 351  
H 341  
H 361  
H 361



Warning  
H 332  
H 312  
H 302

H 314  
H 314



Danger  
H 318



Warning  
H 319  
H 335  
H 315  
H 317



Warning  
H 336

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