

GHS - Globally Harmonised System of Classification and Labelling of Chemicals

The European Approach

PHYSICAL HAZARDS

Hazard classes and hazard categories*	Label elements NEW**		Label elements OLD		
Explosives • Unstable explosives • Explosives, divisions 1.1 to 1.3		H200 H201, H202, H203	Danger		(R2, R3) Explosive
Self-reactive substances, mixtures, types A, B Organic peroxides, types A, B		H240, H241 H240, H241			
Explosives, division 1.4		H204	Warning	No classification	
Flammable gases, category 1 Flammable aerosols, category 1 Flammable liquids, category 1		H220 H222 H224	Warning / Danger		(R12) (R12) R12 Extremely flammable
Flammable liquids, category 2 Flammable solids, category 1 Flammable solids, category 2		H225 H228 H228			R11 (R11) (R11) Highly flammable
Flammable aerosols, category 2 Flammable liquids, category 3		H223 H226	Warning	No symbol (R10) R10 Flammable	No classification flashpoint 56-60°C
Pyrophoric liquids, category 1 Pyrophoric solids, category 1 Substances, mixtures which in contact with water emit flammable gases, categories 1, 2 and category 3		H250 H250 H260 H261 H261	Warning / Danger		R17 R17 (R15) (R15) (R15) Highly flammable
Self-reactive substances, mixtures, type B Self-reactive substances, mixtures, types C, D and types E, F Self-heating substances, mixtures, category 1 and category 2		H241 H242 H242 H251 H252			R12 R12 Highly flammable
Organic peroxides, type B Organic peroxides, types C, D Organic peroxides, types E, F		H241 H242 H242			R7 R7 Oxidising
Oxidising gases, category 1 Oxidising liquids, categories 1, 2 and category 3 Oxidising solids, categories 1, 2 and category 3		H270 H271, H272 H272 H271, H272 H272	Danger/ Warning		R8 R8, R9 R8, R9 Oxidising
Gases under pressure • Compressed gases • Liquefied gases • Refrigerated liquefied gases • Dissolved gases		H280 H280 H281 H280	Warning		No classification
Corrosive to metals, category 1		H290	Warning	No classification	

* Based on Annex I Regulation (EC) No 1272/2008 for all hazard categories with GHS pictograms
** Based on the translation table of Annex VII Regulation (EC) No 1272/2008
*** Specific Target Organ Toxicity

This poster is only a simplified and exemplary view on GHS. A direct conversion from GHS to the former EU classification and labelling is not possible.

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HEALTH HAZARDS

Hazard classes and hazard categories*	Label elements NEW**		Label elements OLD		
Acute toxicity, categories 1, 2 • Oral • Dermal • Inhalation		H300 H310 H330	Danger		R28 R27 R26 Very toxic
Acute toxicity, category 3 • Oral • Dermal • Inhalation		H301 H311 H331			R25 R24 R23 Toxic
Germ cell mutagenicity, categories 1A, 1B Carcinogenicity, categories 1A, 1B Reproductive toxicity, categories 1A, 1B STOT***, single exposure, category 1 STOT***, repeated exposure, category 1		H340 H350 H360 H370 H372	Danger		R46 R45, R49 R60, R61 R39 R48 Toxic
Respiratory sensitisation, category 1 Aspiration hazard, category 1		H334 H304			
Germ cell mutagenicity, category 2 Carcinogenicity, category 2 Reproductive toxicity, category 2 STOT***, single exposure, category 2 STOT***, repeated exposure, category 2		H341 H351 H361 H371 H373	Warning		R68 R40 R62, R63 R68 R48 Harmful
Acute toxicity, category 4 • Oral • Dermal • Inhalation		H302 H312 H332	Warning		R22 R21 R20
Skin corrosion, categories 1A, 1B, 1C		H314	Danger		R34, R35 Corrosive
Serious eye damage, category 1		H318			
Skin irritation, category 2 Eye irritation, category 2 Skin sensitisation, category 1 STOT*** after single exposure, category 3 • Respiratory tract irritation • Narcotic effects		H315 H319 H317 H335 H336	Warning		R38 R36 R43 R37 Irritant
		No symbol			R67

ENVIRONMENTAL HAZARDS

Hazardous to the aquatic environment, acute, category 1 Hazardous to the aquatic environment, chronic, category 1		H400 H410	Warning		R50 R50/53 Dangerous for the environment
Hazardous to the aquatic environment, chronic, category 2		H411			R51/53

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