












Evolution of classification and labelling for chemicals

Physical hazards

Directive 67/548/EEC

CLP¹ regulation

 <p>E - Explosives</p> <p>Explosives (R2, R3)</p>	<p>Explosives (H200, H201, H202, H203)</p> <p>Danger</p>	
 <p>F+ - Extremely flammable</p> <p>Extremely flammable (R12)</p>	<p>Flammable gases, category 1 (H220) Flammable liquids, category 1 (H224)</p> <p>Flammable gases, category 2 (H221)</p> <p>Danger</p> <p>Warning</p>	 No pictogram
 <p>F - Highly flammable</p> <p>Highly flammable (R11, R15, R17)</p>	<p>Flammable liquids, categories 1 and 2 (H224 and H225) Pyrophoric liquids, category 1 (H250) Pyrophoric solids, category 1 (H250) Flammable solids, category 1 (H228) Substances and mixtures which in contact with water emit flammable gases, categories 1 and 2 (H260 and H261) Self-heating substances and mixtures, category 1 (H251) Self-reactive substances and mixtures, type C and D (H242)</p> <p>Self-heating substances and mixtures, category 2 (H252) Self-reactive substances and mixtures, type E and F (H242) Substances and mixtures which in contact with water emit flammable gases, category 3 (H261) Flammable solids, category 2 (H228)</p> <p>Danger</p> <p>Warning</p>	 
<p>No pictogram</p> <p>Flammable (R10)</p>	<p>Flammable liquids, categories 1 and 2 (H224 and H225)</p> <p>Flammable liquids, category 3 (H226)</p> <p>Danger</p> <p>Warning</p>	 
 <p>O - Oxidizing</p> <p>Oxidizing (R7, R8, R9)</p>	<p>Organic peroxides type C and D (H242)</p> <p>Organic peroxides type E and F (H242)</p> <p>Oxidising gases, category 1 (H270) Oxidising liquids, categories 1 and 2 (H271, H272) Oxidising solids, categories 1 and 2 (H271, H272)</p> <p>Oxidising liquids, category 3 (H272) Oxidising solids, category 3 (H272)</p> <p>Danger</p> <p>Warning</p> <p>Danger</p> <p>Warning</p>	   

Please note: no direct transposition with the new classes: *flammable aerosols* and *gases under pressure*.



1. CLP: Classification, Labelling and Packaging of substances and mixtures – regulation (EC) No 1272/2008. English content available on the web site: www.prc.cnrs-gif.fr

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Health hazards

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Very toxic (R39/26, 27, 28)

Specific target organ toxicity after single exposure, category 1 (H370)

Danger



Very toxic (R26, R28)

Acute toxicity, categories 1 and 2 (H330, H300)

Very toxic (R27)

Acute toxicity, category 1 (H310)

Danger



Toxic (R23, R24, R25)

Acute toxicity, categories 2 and 3 (H330, H331, H310, H311, H300, H301)



Carcinogenic categories 1 and 2 (R45, R49)

Carcinogenicity, categories 1A and 1B (H350)

Mutagenic categories 1 and 2 (R46) ..

Germ cell mutagenicity, categories 1A and 1B (H340)

Toxic for reproduction categories 1 and 2 (R60, R61)

Reproductive toxicity, categories 1A and 1B (H360)

Toxic (R39/23, 24, 25)

Specific target organ toxicity after single exposure, category 1 (H370)

Toxic (R48/23, 24, 25)

Specific target organ toxicity after repeated exposure, category 1 (H372)

Danger



Toxic (R48/23)

Specific target organ toxicity after repeated exposure, category 2 (H373)

Carcinogenic, category 3 (R40)

Carcinogenicity, category 2 (H351)

Mutagenic, category 3 (R68)

Germ cell mutagenicity, category 2 (H341)

Toxic for reproduction, category 3 (R62, R63)

Reproductive toxicity, category 2 (H361)

Harmful (R68/20, 21, 22)

Specific target organ toxicity after single exposure, category 2 (H371)

Harmful (R48/20, 21, 22)

Specific target organ toxicity after repeated exposure, category 2 (H373)

Warning



Harmful (R65)

Aspiration hazard, category 1 (H304)

Sensitising (R42)

Respiratory sensitisation, category 1 (H334)

Harmful (R68/20, 21, 22)

Specific target organ toxicity after single exposure, category 1 (H370)

Harmful (R48/20, 21, 22)

Specific target organ toxicity after repeated exposure, category 1 (H372)

Danger



Harmful (R20, R21, R22)

Acute toxicity, category 4 (H332, H312, H302)

Warning



Harmful (R20, R21, R22)

Acute toxicity, category 3 (H331, H311, H301)

Danger



Corrosive (R35, R34)

Skin corrosion, categories 1A, 1B, 1C (H314)

Danger



Irritant (R41)

Serious eye damage, category 1 (H318)



Irritant (R37)

Specific target organ toxicity after single exposure, category 3 (H335)

Irritant (R36, R38)

Eye irritation, category 2 (H319); skin irritation, category 2 (H315)

Sensitising (R43)

Skin sensitisation, category 1 (H317)

Warning



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