



CLP Regulation (EC) No. 1272/2008

on the classification, labelling and packaging of substances and mixtures

Rev. 2, Nov 2021

Classification			Labelling			
Hazard-Class	Hazard-Category	Abbreviation of classification (without H seq)	Pictogram, code*	Signal-word	Code* Warning of danger Text	
Explosives	Unstable explosive	Unst. Expl.		Danger	H200 Unstable explosive	
	Division 1.1	Expl. 1.1			H201 Explosive; mass explosion hazard	
	Division 1.2	Expl. 1.2			H202 Explosive; severe projection hazard	
	Division 1.3	Expl. 1.3			H203 Explosive; fire, blast or projection hazard	
	Division 1.4	Expl. 1.4			H204 Fire or projection hazard	
	Division 1.5	Expl. 1.5			No Pictogram	H205 May mass explode in fire
Division 1.6	Expl. 1.6	No Pictogram	No hazard statement			
Desensitised Explosives	Category 1	Desen. Expl. 1		Danger	H206 Fire, blast or projection hazard; increased risk of explosion if desensitising agent is reduced	
	Category 2	Desen. Expl. 2			H207 Fire or projection hazard; increased risk of explosion if desensitising agent is reduced	
	Category 3	Desen. Expl. 3			Warning	H208 Fire hazard; increased risk of explosion if desensitising agent is reduced
	Category 4	Desen. Expl. 4				
Flammable Gases (including chemically unstable gases)	Category 1A flammable gas and gases categorised as 1A meeting pyrophoric or unstable gas A/B criteria	Flam. Gas 1A		Danger	H220 Extremely flammable gas	
		Pyr. Gas			H220 H232 Extremely flammable gas May ignite spontaneously if exposed to air	
		Chem. Unst. Gas A			H220 H230 Extremely flammable gas May react explosively even in the absence of air	
		Chem. Unst. Gas B			H220 H231 Extremely flammable gas May react explosively even in the absence of air at elevated pressure and/or temperature	
	Category 1B	Flam. Gas 1B		Danger	H221 Flammable gas	
	Category 2	Flam. Gas 2	No Pictogram	Warning	H221 Flammable gas	
Aerosol	Category 1	Aerosol 1		Danger	H222 H229 Extremely flammable aerosol Pressurised container: May burst if heated	
	Category 2	Aerosol 2			Warning	H223 H229 Flammable aerosol Pressurised container: May burst if heated
	Category 3	Aerosol 3			No Pictogram	Warning
Oxidising Gases	Category 1	Ox. Gas 1		Danger	H270 May cause or intensify fire; oxidiser	
Gases under Pressure ⁽¹⁾	Compressed gas	Press. Gas		Warning	H280 Contains gas under pressure; may explode if heated	
					Liquefied gas	H281 Contains refrigerated gas; may cause cryogenic burns or injury.
	Refrigerated liquefied gas	H280 Contains gas under pressure; may explode if heated				
	Dissolved gas	H280 Contains gas under pressure; may explode if heated				
⁽¹⁾ = The hazard class "Gases under Pressure" is subdivided into "Groups" (not "Categories")						
Flammable Liquids	Category 1	Flam. Liq. 1		Danger	H224 Extremely flammable liquid and vapour	
	Category 2	Flam. Liq. 2			H225 Highly flammable liquid and vapour	
	Category 3	Flam. Liq. 3			Warning	H226 Flammable liquid and vapour
Flammable Solids	Category 1	Flam. Sol. 1		Danger	H228 Flammable solid	
	Category 2	Flam. Sol. 2			Warning	
Self-reactive substances and mixtures ⁽²⁾	Type A	Self-react. A		Danger	H240 Heating may cause an explosion	
		Org. Perox. A			H241 Heating may cause a fire or explosion	
	Type B	Self-react. B				H241 Heating may cause a fire or explosion
		Org. Perox. B			GHS01 + GHS02	
	Type C and D	Self-react. C&D				H242 Heating may cause a fire
		Org. Perox. C&D			GHS02	
Type E and F	Self-react. E&F	Warning	H242 Heating may cause a fire			
	Org. Perox. E&F					
Type G	Self-react. G	No Pictogram	No Signal word	No hazard statement		
⁽²⁾ = Two separate hazard classes have the same categories (and are therefore grouped).						
Pyrophoric Liquids	Category 1	Pyr. Liq. 1		Danger	H250 Catches fire spontaneously if exposed to air	
Pyrophoric Solids	Category 1	Pyr. Sol. 1			H251 Self-heating; may catch fire	
Self-heating substances and mixtures	Category 1	Self-heat. 1			Warning	H252 Self-heating in large quantities; may catch fire
	Category 2	Self-heat. 2			Danger	H260 In contact with water releases flammable gases which may ignite spontaneously
Substances or mixtures which in contact with water emit flammable gases	Category 1	Water-react. 1				H261 In contact with water releases flammable gases
	Category 2	Water-react. 2				Warning
Category 3	Water-react. 3					
Oxidising Liquids ⁽³⁾ - Oxidising solids ⁽²⁾	Category 1	Ox. Liq. 1		Danger	H271 May cause fire or explosion; strong oxidiser	
		Ox. Sol. 1			H272 May intensify fire; oxidiser	
	Category 2	Ox. Liq. 2				Warning
	Category 3	Ox. Liq. 3			Ox. Sol. 3	
⁽²⁾ = Two separate hazard classes have the same categories (and therefore grouped).						
Corrosive to metals	Category 1	Met. Corr. 1		Warning	H290 May be corrosive to metals	
Acute Toxicity	Category 1	Acute Tox. 1		Danger	H300 Fatal if swallowed	
		Acute Tox. 2			H310 Fatal in contact with skin	
	Category 2	Acute Tox. 2			H330 Fatal if inhaled	
		Acute Tox. 3			H301 Toxic if swallowed	
Category 3	Acute Tox. 3	H311 Toxic in contact with skin				
	Acute Tox. 4	H331 Toxic if inhaled				
Skin corrosion / irritation	Category 1 ⁽⁴⁾	Skin Corr. 1		Danger	H314 Causes severe skin burns and eye damage	
		Skin Corr. 1A				
		Skin Corr. 1B				
	Category 1C	Skin Corr. 1C				
Category 2	Skin Irr. 2		Warning	H315 Causes skin irritation		
⁽⁴⁾ = Conditions in place for the use of Category 1, please see Annex I to CLP						

Classification			Labelling			
Hazard-Class	Hazard-Category	Abbreviation of classification (without H seq)	Pictogram, code*	Signal-word	Code* Warning of danger Text	
Serious eye damage / eye irritation	Category 1	Eye Dam. 1		Danger	H318 Causes serious eye damage	
	Category 2	Eye Irr. 2				Warning
Sensitisation of the respiratory tract or the skin	Respiratory Sensitisers Category 1 ⁽¹⁾ and Sub-Categories 1A and 1B	Resp. Sens. 1 1A or 1B		Danger	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled	
					Skin Sensitisers Category 1 ⁽¹⁾ and Sub-Categories 1A and 1B	Skin Sens. 1 1A or 1B
⁽¹⁾ = Conditions in place for the use of Category 1, please see Annex I to CLP						
Germ cell mutagenicity	Category 1 and Sub-Categories 1A and 1B	Muta. 1, 1A or 1B		Danger	H340 May cause genetic defects ⁽⁴⁾	
					Category 2	Muta. 2
Carcinogenicity	Category 1 and Sub-Categories 1A and 1B	Carc. 1, 1A or 1B		Danger	H350 May cause cancer ⁽⁴⁾	
					Category 2	Carc. 2
⁽⁴⁾ = State route of exposure if it is conclusively proven that no other routes of exposure cause the hazard.						
Reproductive toxicity	Category 1 and Sub-Categories 1A and 1B	Repr. 1, 1A or 1B		Danger	H360 ⁽⁵⁾ May damage fertility or the unborn child.	
					H360F ⁽⁶⁾ May damage fertility.	
					H360D ⁽⁶⁾ May damage the unborn child	
					H360FD ⁽⁶⁾ May damage fertility. May damage the unborn child.	
	Category 2	Repr. 2		Warning	H361 ⁽⁵⁾ Suspected of damaging fertility or the unborn child.	
					H361F ⁽⁶⁾ Suspected of damaging fertility.	
Additional category for effects on or via lactation	Lact.	No Pictogram	No Signal Word	Warning	H361d ⁽⁶⁾ Suspected of damaging the unborn child.	
					H361fd ⁽⁶⁾ Suspected of damaging fertility. Suspected of damaging the unborn child.	
⁽⁵⁾ = (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) ⁽⁶⁾ F = Fertility, D = Development (lowercase f, d = suspected effect)						
Specific target organ toxicity (single exposure)	Category 1	STOT SE 1		Danger	H370 Causes damage to organs ⁽⁷⁾	
	Category 2	STOT SE 2			Warning	H371 May cause damage to organs ⁽⁷⁾
	Category 3	STOT SE 3			Warning	H335 May cause respiratory irritation
⁽⁷⁾ = (or state all organs affected, if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)						
Specific target organ toxicity (repeated exposure)	Category 1	STOT RE 1		Danger	H372 Causes damage to organs ⁽⁸⁾ through prolonged or repeated exposure ⁽⁹⁾	
	Category 2	STOT RE 2			Warning	H373 May cause damage to organs ⁽⁸⁾ through prolonged or repeated exposure ⁽⁹⁾
⁽⁸⁾ = (state all organs affected, if known) ⁽⁹⁾ = (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)						
Aspiration Toxicity	Category 1	Asp. Tox. 1		Danger	H304 May be fatal if swallowed and enters airways	
Hazardous to the aquatic environment	Acute Category 1	Aquatic Acute 1		Warning	H400 Very toxic to aquatic life	
	Chronic Category 1	Aquatic Chronic 1			H410 Very toxic to aquatic life with long lasting effects	
	Chronic Category 2	Aquatic Chronic 2			No Signal Word	H411 Toxic to aquatic life with long lasting effects
	Chronic Category 3	Aquatic Chronic 3			No Signal Word	H412 Harmful to aquatic life with long lasting effects
Chronic Category 4	Aquatic Chronic 4	No Pictogram	No Signal Word	H413 May cause long lasting harmful effects to aquatic life		
Hazardous to the ozone layer	Category 1	Ozone 1		Warning	H420 Harms public health and the environment by destroying ozone in the upper atmosphere	

* = The Code for the Pictogram and the H-statement do not need to be included on the label.

Classification and Labelling is a set of criteria and rules used to determine if a chemical can cause harm to human health and the environment and involves the identification and evaluation of the physical properties of a chemical, along with its health and environmental effects and then communicating those hazards via a label.

The CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging (CLP) of substances and mixtures entered into force on the 20th January 2009 and applies to all hazardous substances and mixtures placed on the market.

CLP incorporates the United Nations Globally Harmonised System of classification and labelling of chemicals (GHS) within Europe. GHS is updated on a biennial basis and subsequently these updates are included in CLP via an adaptation to technical progress. CLP is direct acting in all European Member States.

The Competent Authorities under the Chemicals Acts 2008 and 2010 in Ireland for the CLP Regulation are the Health and Safety Authority, for industrial chemicals and the Pesticides Registration and Control Division of the Department of Agriculture, Food and the Marine, for plant protection products and biocides.

The National Poisons Information Centre at Beaumont Hospital is appointed as the body responsible for the receipt of information relating to emergency health response in accordance with Article 45 and Annex VIII of CLP.

Further sources of information, assistance and guidance can be found at the following and via our Chemicals Helpdesk:

HSA Chemicals website: <http://www.hsa.ie/chemicals>

Chemicals Helpdesk: chemicals@hsa.ie or telephone 1890 289 389

Biocides Website: <https://www.pcs.agriculture.gov.ie/biocides/>

Biocides Helpdesk: biocides@agriculture.gov.ie

ECHA website: <https://echa.europa.eu/regulations/clp>

NPIC website: www.poisons.ie

The content of this poster is aligned up to the 17th adaptation to technical progress (ATP) to CLP. The poster is subject to change as a result of further ATPs to CLP, please check the HSA and ECHA websites for updates. The HSA wish to acknowledge and thank the German Competent Authority, BAUA who provided the format on which this poster is based.