
















CLP Regulation (EC) No. 1272 / 2008


on the classification, labelling and packaging of substances and mixtures










Rev.0, October 2010

Classification			Labelling			
Hazard-		Abbreviation of classification (without H set)	Pictogram, code*	Signal -word	Code* Warning of danger	
Class	Category					Text
Explosives	Unstable explosive	Unst. Expl.	 GHS01		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	No Pictogram	Warning	H204	Fire or projection hazard
	Division 1.5	Expl. 1.5	No Pictogram	Danger	H205	May mass explode in fire
	Division 1.6	Expl. 1.6	No Pictogram	-	-	No hazard statement
Flammable Gases	Category 1	Flam. Gas 1	 GHS02	Danger	H220	Extremely flammable gas
	Category 2	Flam. Gas 2	No Pictogram	Warning	H221	Flammable gas
Flammable Aerosols	Category 1	Flam. Aerosol 1	 GHS02	Danger	H222	Extremely flammable aerosol
	Category 2	Flam. Aerosol 2		Warning	H223	Flammable aerosol
Oxidising Gases	Category 1	Ox. Gas 1	 GHS03	Danger	H270	May cause or intensify fire; oxidiser
Gases under Pressure ⁽¹⁾	Compressed gas	Press. Gas	 GHS04	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					
⁽¹⁾ = The hazard class "Gases under Pressure" is subdivided into 'Groups' (not 'Categories')						
Flammable Liquids	Category 1	Flam. Liq. 1	 GHS02	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	GHS02	Danger	H228	Flammable solid
	Category 2	Flam. Sol. 2		Warning		

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Self-reactive substances and mixtures ⁽²⁾	Type A	Self-react. A	 GHS01	Danger	H240	Heating may cause an explosion
		Org. Perox. A				
Organic Peroxides ⁽²⁾	Type B	Self-react.. B	  GHS01 + GHS02	Danger	H241	Heating may cause a fire or explosion
		Org. Perox. B				
	Type C and D	Self-react. C&D	 GHS02	Danger	H242	Heating may cause a fire
		Org. Perox. C&D				
	Type E and F	Self-react. E&F		Warning		
		Org. Perox. E&F				
Type G	Self-react. G	No Pictogram		No Signal word	-	No hazard statement
	Org. Perox. G					
⁽²⁾ = Two separate hazard classes have the same categories (and are therefore grouped).						
Pyrophoric Liquids	Category 1	Pyr. Liq. 1	 GHS02	Danger	H250	Catches fire spontaneously if exposed to air
Pyrophoric Solids	Category 1	Pyr. Sol. 1				
Self-heating substances and mixtures	Category 1	Self-heat. 1		Warning	H251	Self-heating; may catch fire
	Category 2	Self-heat. 2			H252	Self-heating in large quantities; may catch fire
Substances or mixtures which in contact with water emit flammable gases	Category 1	Water-react. 1		Danger	H260	In contact with water releases flammable gases which may ignite spontaneously
	Category 2	Water-react. 2				
	Category 3	Water-react. 3				
Oxidising Liquids ⁽²⁾	Category 1	Ox. Liq. 1	 GHS03	Danger	H271	May cause fire or explosion; strong oxidiser
		Ox. Sol. 1				
	Category 2	Ox. Liq. 2		Danger	H272	May intensify fire; oxidiser
		Ox. Sol. 2				
	Category 3	Ox. Liq. 3		Warning		
		Ox. Sol. 3				
⁽²⁾ = Two separate hazard classes have the same categories (and therefore grouped).						
Corrosive to metals	Category 1	Met. Corr. 1	 GHS05	Warning	H290	May be corrosive to metals

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Class	Category					Text
Acute Toxicity	Category 1	Acute Tox. 1	 GHS06	Danger	H300 H310 H330	Fatal if swallowed Fatal in contact with skin Fatal if inhaled
	Category 2	Acute Tox. 2			H301 H311 H331	Toxic if swallowed Toxic in contact with skin Toxic if inhaled
	Category 3	Acute Tox. 3	 GHS07	Warning	H302 H312 H332	Harmful if swallowed Harmful in contact with skin Harmful if inhaled
	Category 4	Acute Tox. 4				
Skin corrosion / irritation	Category 1A	Skin Corr. 1A	 GHS05	Danger	H314	Causes severe skin burns and eye damage
	Category 1B	Skin Corr. 1B				
	Category 1C	Skin Corr. 1C	 GHS07	Warning	H315	Causes skin irritation
Category 2	Skin Irr. 2					
Serious eye damage / eye irritation	Category 1	Eye Dam. 1	 GHS05	Danger	H318	Causes serious eye damage
	Category 2	Eye Irr. 2	 GHS07	Warning	H319	Causes serious eye irritation
Sensitisation of the respiratory tract or the skin	Respiratory Sensitisers Category 1	Resp. Sens. 1	 GHS08	Danger	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
	Skin Sensitisers Category 1	Skin. Sens. 1	 GHS07	Warning	H317	May cause an allergic skin reaction

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Class	Category					Text	
Germ cell mutagenicity	Category 1A	Muta. 1A	 GHS08	Danger	H340	May cause genetic defects ⁽³⁾	
	Category 1B	Muta. 1B				Warning	H341
	Category 2	Muta. 2		Danger	H350		
Carcinogenicity	Category 1A	Carc. 1A				GHS08	H350i
	Category 1B	Carc. 1B			Warning		
	Category 2	Carc. 2					
(3) = State route of exposure if it is conclusively proven that no other routes of exposure cause the hazard.							
Reproductive toxicity	Category 1A	Repr. 1A	 GHS08	Danger	H360 ⁽⁴⁾ H360F ⁽⁵⁾ H360D ⁽⁵⁾ H360FD ⁽⁵⁾ H360Fd ⁽⁵⁾ H360Df ⁽⁵⁾	May damage fertility or the unborn child.	
	Category 1B	Repr. 1B				May damage fertility.	
						May damage the unborn child	
	Category 2	Repr. 2				May damage fertility. May damage the unborn child.	
			May damage fertility. Suspected of damaging the unborn child.				
Additional category for effects on or via lactation	Lact.	No Pictogram	No Signal Word	H362	May cause harm to breast-fed children.		
(4) = (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) ⁽⁵⁾ F = Fertility, D= Development (lowercase f, d = suspected effect)							
Specific target organ toxicity (single exposure)	Category 1	STOT SE 1	 GHS08	Danger	H370	Causes damage to organs ^(6,7)	
	Category 2	STOT SE 2				Warning	H371
	Category 3	STOT SE 3	 GHS07	Warning	H335		
H336					May cause drowsiness or dizziness		
Specific target organ toxicity (repeated exposure)	Category 1	STOT RE 1	 GHS08	Danger	H372	Causes damage to organs ⁽⁶⁾ through prolonged or repeated exposure ⁽⁷⁾	
	Category 2	STOT RE 2				Warning	H373
(6) = (state all organs affected, if known) (7) = (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)							

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Aspiration Toxicity	Category 1	Asp. Tox. 1	 GHS08	Danger	H304	May be fatal if swallowed and enters airways
Hazardous to the aquatic environment	Acute Category 1	Aquatic Acute 1	 GHS09	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 Pictogram	No Signal Word	H412	Harmful to aquatic life with long lasting effects
	Chronic Category 4	Aquatic Chronic 4			H413	May cause long lasting harmful effects to aquatic life
ADDITIONAL EU HAZARD CLASS						
The warning of danger and the signal word included in the section for additional information can be found on the label.						
Hazardous to the ozone layer		Ozone	No Pictogram	Danger	EUH059	Hazardous to the Ozone Layer

* = 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. It 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 is direct acting in all European Member States. It has a phased transitional period, firstly for substances and then for mixtures, being the 1st December 2010 and then the 1st June 2015, respectively. These are extended to 1st December 2012 and 1st June 2017 if the substance or mixture is already "on the shelf".

CLP introduces the United Nations GHS into Europe and it amends and will eventually replace the existing European Directives 67/548/EEC for substances and Directive

1999/45/EC for preparations. These are transposed in Ireland by Statutory Instruments S.I. No 116 of 2003 (for substances) and S.I. No 62 of 2004 (for preparations), as amended.

The Competent Authorities in Ireland for the CLP Regulation are the Health and Safety Authority, for industrial chemicals, and the Pesticides Control Service Division of the Department of Agriculture Fisheries and Food for plant protection products and biocides. There is a CLP Helpdesk established to assist industry to meet their obligation under CLP.

Further sources of information, assistance and guidance can be found at the following:

HSA website www.hsa.ie/clp

CLP Helpdesk email clp@hsa.ie Telephone 1890 289 389

ECHA website http://echa.europa.eu/clp_en.asp

The content of this poster is subject to change as a result of adaptations to technical progress to the CLP Regulation please check the HSA and ECHA websites for updates. The HSA wish to acknowledge and thank the German Competent Authority, BAUA who provided the information on which this poster is based.