

# **ANNEXES**



# **ANNEX 1**

## **CLASSIFICATION AND LABELLING SUMMARY TABLES**














## Annex 1

### CLASSIFICATION AND LABELLING SUMMARY TABLES

**NOTE:** The codification of hazard statements is further explained in Annex 3 (Section 1). The hazard statement codes are intended to be used for reference purposes only. They are not part of the hazard statement text and should not be used to replace it.



#### A1.1 Explosives (see Chapter 2.1 for classification criteria)

Classification		Labelling			Hazard statement codes	
Hazard class	Hazard category	Pictogram		Signal word		Hazard statement
		GHS	UN Model Regulations <sup>a</sup>			
<b>Explosives</b>	Unstable explosive		(Transport not allowed)	<b>Danger</b>	Unstable explosive	H200
	Division 1.1				Explosive; mass explosion hazard	H201
	Division 1.2				Explosive; severe projection hazard	H202
	Division 1.3				Explosive; fire, blast or projection hazard	H203
	Division 1.4			<b>Warning</b>	Fire or projection hazard	H204
	Division 1.5	No pictogram		<b>Danger</b>	May mass explode in fire	H205
	Division 1.6	No pictogram		No signal word	No hazard statement	None

<sup>a</sup> (\*) Place for compatibility group.






The pictogram for Divisions 1.1, 1.2 and 1.3 is also assigned to substances which have an explosive subsidiary risk, but without the indication of the division number and the compatibility group (see also "Self-reactive substances and mixtures" and "Organic peroxides").

### A1.2 Flammable gases (including chemically unstable gases) (see Chapter 2.2 for classification criteria)

Classification		Labelling			Hazard statement codes	
Hazard class	Hazard category	Pictogram		Signal word		Hazard statement
		GHS	UN Model Regulations <sup>a</sup>			
Flammable gases (including chemically unstable gases)	1			<b>Danger</b>	Extremely flammable gas	H220
	2	No pictogram	Not required	<b>Warning</b>	Flammable gas	H221
	A (chemically unstable gases)	No additional pictogram	Not required	No additional signal word	Additional hazard statement: May react explosively even in the absence of air	H230
	B (chemically unstable gases)	No additional pictogram	Not required	No additional signal word	Additional hazard statement: May react explosively even in the absence of air at elevated pressure and/or temperature	H231



<sup>a</sup> Under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, the symbol, number and border line may be shown in black instead of white. The background colour stays red in both cases.

### A1.3 Aerosols (see Chapter 2.3 for classification criteria)









Classification		Labelling			Hazard statement codes	
Hazard class	Hazard category	Pictogram		Signal word		Hazard statement
		GHS	UN Model Regulations <sup>a</sup>			
Aerosols	1			<b>Danger</b>	Extremely flammable aerosol Pressurized container: may burst if heated	H222 H229
	2			<b>Warning</b>	Flammable aerosol Pressurized container: may burst if heated	H223 H229
	3	No pictogram		<b>Warning</b>	Pressurized container: may burst if heated	H229

<sup>a</sup> Under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, the symbol, number and border line may be shown in black or white. The background colour stays red in the first two cases and green in the third case.

**A1.4 Oxidizing gases** (see Chapter 2.4 for classification criteria)







Classification		Labelling				Hazard statement code
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Oxidizing gases	1			Danger	May cause or intensify fire; oxidizer	H270

**A1.5 Gases under pressure** (see Chapter 2.5 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations <sup>a</sup>			
Gases under pressure	Compressed gas			Warning	Contains gas under pressure; may explode if heated	H280
	Liquefied gas			Warning	Contains gas under pressure; may explode if heated	H280
	Refrigerated liquefied gas			Warning	Contains refrigerated gas; may cause cryogenic burns or injury	H281
	Dissolved gas			Warning	Contains gas under pressure; may explode if heated	H280





<sup>a</sup> Under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, the symbol, number and border line may be shown in white instead of black. The background colour stays green in both cases. This pictogram is not required for toxic or flammable gases (see also note "a" to tables A1.17 and A1.2).

**A1.6 Flammable liquids** (see Chapter 2.6 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations <sup>a</sup>			
Flammable liquids	1			Danger	Extremely flammable liquid and vapour	H224
	2			Danger	Highly flammable liquid and vapour	H225
	3			Warning	Flammable liquid and vapour	H226
	4	No pictogram	Not required	Warning	Combustible liquid	H227










<sup>a</sup> Under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, the symbol, number and border line may be shown in black instead of white. The background colour stays red in both cases.

**A1.7 Flammable solids** (see Chapter 2.7 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Flammable solids	1			Danger	Flammable solid	H228
	2			Warning	Flammable solid	H228





**A1.8 Self-reactive substances and mixtures** (see Chapter 2.8 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations <sup>a</sup>			
Self-reactive substances and mixtures	Type A		(Transport may not be allowed) <sup>b</sup>	Danger	Heating may cause an explosion	H240
	Type B	 	 	Danger	Heating may cause a fire or explosion	H241
	Types C and D			Danger	Heating may cause a fire	H242
	Types E and F			Warning	Heating may cause a fire	H242
	Type G	No pictogram	Not required	No signal word	No hazard statement	None



<sup>a</sup> For Type B, under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, special provision 181 may apply (Exemption of explosive label with competent authority approval. See Chapter 3.3 of the UN Model Regulations for more details).

<sup>b</sup> May not be acceptable for transport in the packaging in which it is tested (See Chapter 2.5, par. 2.5.3.2.2 of the UN Model Regulations).





**A1.9 Pyrophoric liquids** (see Chapter 2.9 for classification criteria)

Classification		Labelling				Hazard statement code
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Pyrophoric liquids	1			Danger	Catches fire spontaneously if exposed to air	H250







**A1.10 Pyrophoric solids** (see Chapter 2.10 for classification criteria)

Classification		Labelling				Hazard statement code
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Pyrophoric solids	1			Danger	Catches fire spontaneously if exposed to air	H250

**A1.11 Self-heating substances and mixtures** (see Chapter 2.11 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Self-heating substances and mixtures	1			Danger	Self-heating; may catch fire	H251
	2			Warning	Self-heating in large quantities; may catch fire	H252

**A1.12 Substances and mixtures, which in contact with water, emit flammable gases** (see Chapter 2.12 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations <sup>a</sup>			
Substances and mixtures, which in contact with water, emit flammable gases	1			Danger	In contact with water releases flammable gases which may ignite spontaneously	H260
	2			Danger	In contact with water releases flammable gases	H261
	3			Warning	In contact with water releases flammable gases	H261

<sup>a</sup> Under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, the symbol, number and border line may be shown in black instead of white. The background colour stays blue in both cases.










**A1.13 Oxidizing liquids** (see Chapter 2.13 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Oxidizing liquids	1			Danger	May cause fire or explosion; strong oxidizer	H271
	2			Danger	May intensify fire; oxidizer	H272
	3			Warning	May intensify fire; oxidizer	H272

**A1.14 Oxidizing solids** (see Chapter 2.14 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Oxidizing solids	1			Danger	May cause fire or explosion; strong oxidizer	H271
	2			Danger	May intensify fire; oxidizer	H272
	3			Warning	May intensify fire; oxidizer	H272



**A1.15 Organic peroxides** (see Chapter 2.15 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations <sup>a</sup>			
Organic peroxides	Type A		(Transport may not be allowed) <sup>b</sup>	Danger	Heating may cause an explosion	H240
	Type B			Danger	Heating may cause a fire or explosion	H241
						
	Types C and D			Danger	Heating may cause a fire	H242
	Types E and F			Warning	Heating may cause a fire	H242
	Type G	No pictogram	Not required	No signal word	No hazard statement	None








<sup>a</sup> For Type B, under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, special provision 181 may apply (Exemption of explosive label with competent authority approval. See Chapter 3.3 of UN Model Regulations for more details).

<sup>b</sup> May not be acceptable for transport in the packaging in which it is tested (See Chapter 2.5, par. 2.5.3.2.2 of the UN Model Regulations).

**A1.16 Corrosive to metals** (see Chapter 2.16 for classification criteria)




Classification		Labelling				Hazard statement code
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Corrosive to metals	1			Warning	May be corrosive to metals	H290

**A1.17 Acute toxicity** (see Chapter 3.1 for classification criteria)

Classification		Labelling				Hazard statement codes	
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement		
		GHS	UN Model Regulations <sup>a</sup>				
Acute toxicity	1	Oral			<b>Danger</b>	Fatal if swallowed	H300
		Dermal				Fatal in contact with skin	H310
		Inhalation				Fatal if inhaled	H330
	2	Oral			<b>Danger</b>	Fatal if swallowed	H300
		Dermal				Fatal in contact with skin	H310
		Inhalation				Fatal if inhaled	H330
	3	Oral			<b>Danger</b>	Toxic if swallowed	H301
		Dermal				Toxic in contact with skin	H311
		Inhalation				Toxic if inhaled	H331
	4	Oral		<i>Not required</i>	<b>Warning</b>	Harmful if swallowed	H302
		Dermal				Harmful in contact with skin	H312
		Inhalation				Harmful if inhaled	H332
5	Oral	<i>No pictogram</i>	<i>Not required</i>	<b>Warning</b>	May be harmful if swallowed	H303	
	Dermal				May be harmful in contact with skin	H313	
	Inhalation				May be harmful if inhaled	H333	



<sup>a</sup> For gases, under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, replace the number "6" in the bottom corner of the pictogram by "2".

**A1.18 Skin corrosion/irritation** (see Chapter 3.2 for classification criteria)




Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Skin corrosion/irritation	1			<b>Danger</b>	Causes severe skin burns and eye damage	H314
	2		<i>Not required</i>	<b>Warning</b>	Causes skin irritation	H315
	3 <sup>a</sup>	<i>No pictogram</i>	<i>Not required</i>	<b>Warning</b>	Causes mild skin irritation	H316

<sup>a</sup> Applies to some authorities.

**A1.19 Serious eye damage/eye irritation** (see Chapter 3.3 for classification criteria)




Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Serious eye damage/eye irritation	1		<i>Not required</i>	<b>Danger</b>	Causes serious eye damage	H318
	2/2A		<i>Not required</i>	<b>Warning</b>	Causes serious eye irritation	H319
	2B	<i>No pictogram</i>	<i>Not required</i>	<b>Warning</b>	Causes eye irritation	H320

**A1.20 Respiratory sensitizer** (see Chapter 3.4 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Respiratory sensitization	1		<i>Not required</i>	<b>Danger</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled	H334
	1A <sup>a</sup>		<i>Not required</i>	<b>Danger</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled	H334
	1B <sup>a</sup>		<i>Not required</i>	<b>Danger</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled	H334



<sup>a</sup> Sub-categories may be applied where data are sufficient and where required by a competent authority.

**A1.21 Skin sensitizer** (see Chapter 3.4 for classification criteria)



Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Skin sensitization	1		Not required	Warning	May cause an allergic skin reaction	H317
	1A <sup>a</sup>		Not required	Warning	May cause an allergic skin reaction	H317
	1B <sup>a</sup>		Not required	Warning	May cause an allergic skin reaction	H317

<sup>a</sup> Sub-categories may be applied where data are sufficient and where required by a competent authority.



**A1.22 Germ cell mutagenicity** (see Chapter 3.5 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Germ cell mutagenicity	1 (both 1A and 1B)		Not required	Danger	May cause genetic defects ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H340
	2		Not required	Warning	Suspected of causing genetic defects ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H341




**A1.23 Carcinogenicity** (see Chapter 3.6 for classification criteria)

Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Carcinogenicity	1 (both 1A and 1B)		Not required	Danger	May cause cancer ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H350
	2		Not required	Warning	Suspected of causing cancer ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H351

**A1.24 Toxic to reproduction** (see Chapter 3.7 for classification criteria)



Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Reproductive toxicity	1 (both 1A and 1B)		<i>Not required</i>	<b>Danger</b>	May damage fertility or the unborn child ( <i>state specific effect if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H360
	2		<i>Not required</i>	<b>Warning</b>	Suspected of damaging fertility or the unborn child ( <i>state specific effect if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H361
	Additional category for effects on or via lactation	<i>No pictogram</i>	<i>Not required</i>	<i>No signal word</i>	May cause harm to breast-fed children	H362

**A1.25 Specific target organ toxicity following single exposure** (see Chapter 3.8 for classification criteria)



Classification		Labelling				Hazard statement codes
Hazard class	Hazard category	Pictogram		Signal word	Hazard statement	
		GHS	UN Model Regulations			
Specific target organ toxicity – single exposure	1		<i>Not required</i>	<b>Danger</b>	Causes damage to organs ( <i>or state all organs affected, if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H370
	2		<i>Not required</i>	<b>Warning</b>	May cause damage to organs ( <i>or state all organs affected, if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H371
	3		<i>Not required</i>	<b>Warning</b>	May cause respiratory irritation <i>or</i> May cause drowsiness or dizziness	H335  H336





**A1.26 Specific target organ toxicity following repeated exposure** (see Chapter 3.9 for classification criteria)

Classification		Labelling			Hazard statement codes	
Hazard class	Hazard category	Pictogram		Signal word		Hazard statement
		GHS	UN Model Regulations			
Specific target organ toxicity – repeated exposure	1		<i>Not required</i>	<b>Danger</b>	Causes damage to organs ( <i>state all organs affected, if known</i> ) through prolonged or repeated exposure ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H372
	2		<i>Not required</i>	<b>Warning</b>	May cause damage to organs ( <i>state all organs affected, if known</i> ) through prolonged or repeated exposure ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	H373

**A1.27 Aspiration hazard** (See chapter 3.10 for classification criteria)





Classification		Labelling			Hazard statement codes	
Hazard class	Hazard category	Pictogram		Signal word		Hazard statement
		GHS	UN Model Regulations			
Aspiration hazard	1		<i>Not required</i>	<b>Danger</b>	May be fatal if swallowed and enters airways	H304
	2		<i>Not required</i>	<b>Warning</b>	May be harmful if swallowed and enters airways	H305

**A1.28 (a) Hazardous to the aquatic environment, short-term (acute)** (see Chapter 4.1 for classification criteria)

Classification		Labelling			Hazard statement codes	
Hazard class	Hazard category	Pictogram		Signal word		Hazard statement
		GHS	UN Model Regulations <sup>a</sup>			
Hazardous to the aquatic environment, short-term (Acute)	Acute 1			<b>Warning</b>	Very toxic to aquatic life	H400
	Acute 2	<i>No pictogram</i>	<i>Not required</i>	<i>No signal word</i>	Toxic to aquatic life	H401
	Acute 3	<i>No pictogram</i>	<i>Not required</i>	<i>No signal word</i>	Harmful to aquatic life	H402


<sup>a</sup> For Category 1, under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, the pictogram is not required if the substance presents any other hazards covered by UN Model Regulations. If no other hazard is presented, this pictogram is required as a mark in addition to the UN Model Regulations Class 9 label.

**A1.28 (b) Hazardous to the aquatic environment, long-term (chronic)** (see Chapter 4.1 for classification criteria)

Classification		Labelling			Hazard statement codes	
Hazard class	Hazard category	Pictogram		Signal word		Hazard statement
		GHS	UN Model Regulations <sup>a</sup>			
<b>Hazardous to the aquatic environment, long-term (Chronic)</b>	<b>Chronic 1</b>			<b>Warning</b>	Very toxic to aquatic life with long lasting effects	H410
	<b>Chronic 2</b>			<i>No signal word</i>	Toxic to aquatic life with long lasting effects	H411
	<b>Chronic 3</b>	<i>No pictogram</i>	<i>Not required</i>	<i>No signal word</i>	Harmful to aquatic life with long lasting effects	H412
	<b>Chronic 4</b>	<i>No pictogram</i>	<i>Not required</i>	<i>No signal word</i>	May cause long lasting harmful effects to aquatic life	H413

<sup>a</sup> For categories 1 and 2, under the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, the pictogram is not required if the substance presents any other hazards covered by UN Model Regulations. If no other hazard is presented, this pictogram is required as a mark in addition to the UN Model Regulations Class 9 label.

**A1.29 Hazard to the ozone layer** (see Chapter 4.2 for classification criteria)

Classification		Labelling			Hazard statement code	
Hazard class	Hazard category	Pictogram		Signal word		Hazard statement
		GHS	UN Model Regulations			
<b>Hazardous to the ozone layer</b>	<b>1</b>		<i>Not required</i>	<b>Warning</b>	Harms public health and the environment by destroying ozone in the upper atmosphere	H420