

ANNEX 1

CLASSIFICATION AND LABELLING SUMMARY TABLES

NOTE 1: 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.

NOTE 2: To provide clarity, assist labelling practitioners and enable comparison between equivalent classification and labelling systems under the GHS and the UN Model Regulations, transport hazard classes, divisions and pictograms are included in tables A1.1 to A1.30. However, it should be noted that in these tables the UN Model Regulations classification and labelling entries are provided for indicative purposes only. For transport purposes, the classification and labelling provisions prescribed by the UN Model Regulations shall be used (see also chapter 1.4, section 1.4.10 of the GHS).

NOTE 3: GHS hazard pictograms are displayed in the shape of a square set at a point with a black symbol on a white background with a red frame. The transport pictograms (commonly referred to as labels in the UN Model Regulations) shall be displayed on a background of contrasting colour or, where appropriate, shall have either a dotted or solid boundary line as provided in chapter 5.2, section 5.2.2.2 of the UN Model Regulations and in tables A1.1 to A1.30 below. For some hazard categories, the symbol, number and border line of the transport pictogram may be shown in white instead of black. Where such an alternative is available it is shown in the relevant tables below (see tables A1.2, A1.3, A1.5, A1.6, A1.12, A1.15 and A1.17).

A1.1 Explosives (see chapter 2.1 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement	
Explosives	1	Not applicable		Not applicable	Danger	Explosive	H209 H210 ^b H211 ^b
	2A	1.1			Danger	Explosive	H209
		1.2					
		1.3					
		1.5					
		1.6					
	2B	1.4			Warning	Fire or projection hazard	H204
	2C				Warning	Fire or projection hazard	H204

^a Under the UN Model Regulations, (*) indicates the place for compatibility group and (**) indicates the place for division - to be left blank if explosive is the subsidiary hazard.

^b Additional hazard statements for explosives that are sensitive to initiation or for which sufficient information on their sensitivity is not available (see chapter 2.1, section 2.1.3).

Classification				Labelling				GHS hazard statement codes	
GHS hazard class	GHS hazard category		UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement		
Flammable gases	1A	Flammable gas		2.1		 or 	Danger	Extremely flammable gas	H220
		Pyrophoric gas						Extremely flammable gas May ignite spontaneously if exposed to air	H220 H232
								Extremely flammable gas May react explosively even in the absence of air	H220 H230
		Chemically unstable gas						Extremely flammable gas May react explosively even in the absence of air at elevated pressure and/or temperature	H220 H231
	1B								
	2		Not applicable	No pictogram	Not applicable	Warning	Flammable gas	H221	

^a Under the UN Model Regulations, pyrophoric gases and chemically unstable gases (A and B) are classified based on their flammability in Class 2, Division 2.1.

A1.3 Aerosols and chemicals under pressure (see chapter 2.3 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Aerosols (section 2.3.1)	1	2.1		 2 or  2	Danger	Extremely flammable aerosol Pressurized container: may burst if heated	H222 H229
	2			Warning	Flammable aerosol Pressurized container: may burst if heated	H223 H229	
	3	2.2	No pictogram		 2 or  2	Pressurized container: may burst if heated	H229
Chemicals under pressure (section 2.3.2)	1	2.1		 2 or  2	Danger	Extremely flammable chemical under pressure: may explode if heated	H282
	2		and 	Warning	Flammable chemical under pressure: may explode if heated	H283	
	3	2.2			 2 or  2	Chemical under pressure: may explode if heated	H284

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

Classification			Labelling				GHS hazard statement code
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement	
Oxidizing gases	1	2 ^a		 5.1	Danger	May cause or intensify fire; oxidizer	H270

^a Under the UN Model Regulations, oxidizing gases are classified under the applicable Class 2 division according to their primary gas hazard and will display the applicable Class 2 transport pictogram. In addition, they are assigned a Division 5.1 (flame over circle) transport pictogram due to their oxidizing subsidiary hazard.

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

Classification			Labelling				Hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement	
Gases under pressure	Compressed gas	2.2			Warning	Contains gas under pressure; may explode if heated	H280
	Liquefied gas			or		Contains gas under pressure; may explode if heated	H280
	Refrigerated liquefied gas					Contains refrigerated gas; may cause cryogenic burns or injury	H281
	Dissolved gas					Contains gas under pressure; may explode if heated	H280

^a Under the UN Model Regulations, this pictogram is not required for gases under pressure that are also toxic or flammable gases. In those cases, the applicable toxic or flammable gas hazard class pictogram is used instead.

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

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Flammable liquids	1	3			Danger	Extremely flammable liquid and vapour	H224
	2			or		Highly flammable liquid and vapour	H225
	3				Warning	Flammable liquid and vapour	H226
	4	Not applicable	No pictogram	Not required		Combustible liquid	H227

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

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Flammable solids	1	4.1			Danger	Flammable solid	H228
	2				Warning		

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

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement	
Self-reactive substances and mixtures	Type A	4.1 Type A		(Transport may not be allowed) ^b	Danger	Heating may cause an explosion	H240
	Type B	4.1 Type B	 and 	 and if applicable 	Danger	Heating may cause a fire or explosion	H241
	Types C and D	4.1 Types C and D			Danger	Heating may cause a fire	H242
	Types E and F	4.1 Types E and F			Warning		
	Type G	Type G	No pictogram	Not applicable	No signal word	No hazard statement	None

^a Under the UN Model Regulations, where a Type B substance or mixture has an explosive subsidiary hazard, then the transport pictogram for Divisions 1.1, 1.2 or 1.3 shall also be used without the indication of the division number or the compatibility group. For a substance or mixture of hazard category Type B, 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).

^b May not be acceptable for transport in the packaging in which it is tested (See chapter 2.4, paragraph 2.4.2.3.2.1 of the UN Model Regulations).

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

Classification			Labelling				GHS hazard statement code
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Pyrophoric liquids	1	4.2			Danger	Catches fire spontaneously if exposed to air	H250

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

Classification			Labelling				GHS hazard statement code
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Pyrophoric solids	1	4.2			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				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Self-heating substances and mixtures	1	4.2			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				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Substances and mixtures, which in contact with water, emit flammable gases	1	4.3			Danger	In contact with water releases flammable gases which may ignite spontaneously	H260
	2			or 	Danger	In contact with water releases flammable gases	H261
	3				Warning		

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

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Oxidizing liquids	1	5.1			Danger	May cause fire or explosion; strong oxidizer	H271
	2				Danger	May intensify fire; oxidizer	H272
	3				Warning		

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

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Oxidizing solids	1	5.1			Danger	May cause fire or explosion; strong oxidizer	H271
	2				Danger	May intensify fire; oxidizer	H272
	3				Warning		

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

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement	
Organic peroxides	Type A	5.2 Type A		(Transport may not be allowed) ^b	Danger	Heating may cause an explosion	H240
	Type B	5.2 Type B	and	or and if applicable ^a :	Danger	Heating may cause a fire or explosion	H241
	Types C and D	5.2 Types C and D		or	Danger	Heating may cause a fire	H242
	Types E and F	5.2 Types E and F		or	Warning	Heating may cause a fire	H242
	Type G	Type G	No pictogram	Not applicable	No signal word	No hazard statement	None

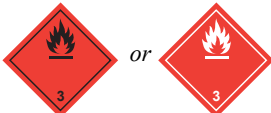
^a Under the UN Model Regulations, where a Type B substance or mixture has an explosive subsidiary hazard, then the transport pictogram for Divisions 1.1, 1.2 or 1.3 shall also be used without the indication of the division number or the compatibility group. For a substance or mixture of hazard category Type B, 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).

^b 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				GHS hazard statement code
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Corrosive to metals	1	8			Warning	May be corrosive to metals	H290

A1.17 Desensitized explosives (see chapter 2.17 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division ^a	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement	
Desensitized explosives	1	3 or 4.1		 or 	Danger	Fire, blast projection hazard; increased risk of explosion if desensitizing agent is reduced	H206
	2				Danger	Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced	H207
	3				Warning	Fire or projection hazard; increased risk of explosion if desensitizing agent is reduced	H207
	4				Warning	Fire hazard; increased risk of explosion if desensitizing agent is reduced	H208

^a Under the UN Model Regulations, liquid desensitized explosives are classified in Class 3 and solid desensitized explosives are classified in Division 4.1.

A1.18 Acute toxicity (see chapter 3.1 for classification criteria)

Classification			Labelling				GHS hazard statement codes				
GHS hazard class	GHS hazard category		UN Model Regulations class or division ^a	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word		GHS hazard statement			
Acute toxicity	1, 2	Oral	2.3			or		Danger	Fatal if swallowed	H300	
		Dermal							Fatal in contact with skin	H310	
		Inhalation							Fatal if inhaled	H330	
	3	Oral	6.1				or		Danger	Toxic if swallowed	H301
		Dermal								Toxic in contact with skin	H311
		Inhalation								Toxic if inhaled	H331
	4	Oral	Not applicable		No pictogram	Not applicable	Warning	Harmful if swallowed	H302		
		Dermal						Harmful in contact with skin	H312		
		Inhalation						Harmful if inhaled	H332		
	5	Oral	Not applicable	No pictogram	Not applicable	Warning	May be harmful if swallowed	H303			
		Dermal					May be harmful in contact with skin	H313			
		Inhalation					May be harmful if inhaled	H333			

^a Under the UN Model Regulations, toxic gases are classified in Division 2.3 and toxic substances (as defined in the UN Model Regulations) are classified in Division 6.1.

A1.19 Skin corrosion/irritation (see chapter 3.2 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Skin corrosion/irritation	1 1A, 1B, 1C	8			Danger	Causes severe skin burns and eye damage	H314
	2	<i>Not applicable</i>		<i>Not applicable</i>	Warning	Causes skin irritation	H315
	3		<i>No pictogram</i>		Warning	Causes mild skin irritation	H316

A1.20 Serious eye damage/eye irritation (see chapter 3.3 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Serious eye damage/eye irritation	1	Not applicable		Not applicable	Danger	Causes serious eye damage	H318
	2/2A				Warning	Causes serious eye irritation	H319
	2B		No pictogram		Warning	Causes eye irritation	H320

A1.21 Respiratory sensitization (see chapter 3.4 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Respiratory sensitization	1, 1A, 1B	Not applicable		Not applicable	Danger	May cause allergy or asthma symptoms or breathing difficulties if inhaled	H334

A1.22 Skin sensitization (see chapter 3.4 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Skin sensitization	1, 1A, 1B	Not applicable		Not required	Warning	May cause an allergic skin reaction	H317

A1.23 Germ cell mutagenicity (see chapter 3.5 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Germ cell mutagenicity	1, 1A, 1B	Not applicable		Not applicable	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				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

A1.24 Carcinogenicity (see chapter 3.6 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Carcinogenicity	1, 1A, 1B	Not applicable		Not applicable	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				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

A1.25 Reproductive toxicity (see chapter 3.7 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Reproductive toxicity	1, 1A, 1B	Not applicable		Not applicable	Danger	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				Warning	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		No pictogram		No signal word	May cause harm to breast-fed children	H362

A1.26 Specific target organ toxicity following single exposure (see chapter 3.8 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictograms	GHS signal word	GHS hazard statement	
Specific target organ toxicity – single exposure	1	Not applicable		Not applicable	Danger	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				Warning	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				Warning	May cause respiratory irritation or May cause drowsiness or dizziness	H335 H336

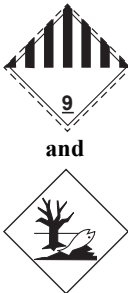
A1.27 Specific target organ toxicity following repeated exposure (see chapter 3.9 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Specific target organ toxicity – repeated exposure	1	Not applicable		Not applicable	Danger	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				Warning	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

A1.28 Aspiration hazard (see chapter 3.10 for classification criteria)

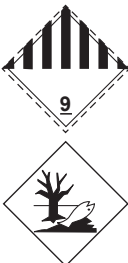
Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictogram	GHS signal word	GHS hazard statement	
Aspiration hazard	1	Not applicable		Not applicable	Danger	May be fatal if swallowed and enters airways	H304
	2				Warning	May be harmful if swallowed and enters airways	H305

A1.29 (a) Hazardous to the aquatic environment, short-term (acute) (see chapter 4.1 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division ^a	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement	
Hazardous to the aquatic environment, short-term (Acute)	Acute 1	9			Warning	Very toxic to aquatic life	H400
	Acute 2	Not applicable	No pictogram	Not applicable	No signal word	Toxic to aquatic life	H401
	Acute 3					Harmful to aquatic life	H402

^a Under the UN Model Regulations, for category Acute 1, environmentally hazardous substances are classified under Class 9 and shall bear both the Class 9 transport pictogram and the environmentally hazardous substance transport mark (see chapter 5.2, section 5.2.1.6 and chapter 5.3, section 5.3.2.3, of the UN Model Regulations). However, if the environmentally hazardous substance presents any other hazards covered by UN Model Regulations, the Class 9 transport pictogram shall be replaced by the transport pictogram(s) applicable to the hazard(s) present and the environmentally hazardous substance pictogram is not required.

A1.29 (b) Hazardous to the aquatic environment, long-term (chronic) (see chapter 4.1 for classification criteria)

Classification			Labelling				GHS hazard statement codes
GHS hazard class	GHS hazard category	UN Model Regulations class or division ^a	GHS pictogram	UN Model Regulations pictogram ^a	GHS signal word	GHS hazard statement	
Hazardous to the aquatic environment, long-term (Chronic)	Chronic 1	9			Warning	Very toxic to aquatic life with long lasting effects	H410
	Chronic 2				No signal word	Toxic to aquatic life with long lasting effects	H411
	Chronic 3	Not applicable	No pictogram	Not applicable	No signal word	Harmful to aquatic life with long lasting effects	H412
	Chronic 4				No signal word	May cause long lasting harmful effects to aquatic life	H413

^a Under the UN Model Regulations, for categories Chronic 1 and 2, environmentally hazardous substances are classified under Class 9 and shall bear both the Class 9 transport pictogram and the environmentally hazardous substance transport mark (see chapter 5.2, section 5.2.1.6 and chapter 5.3, section 5.3.2.3, of the UN Model Regulations). However, if the environmentally hazardous substance presents any other hazards covered by UN Model Regulations, the Class 9 transport pictogram shall be replaced by the transport pictogram(s) applicable to the hazard(s) present and the environmentally hazardous substance pictogram is not required.

A1.30 Hazardous to the atmospheric system (see chapter 4.2 for classification criteria)

Classification			Labelling				GHS hazard statement code
GHS hazard class	GHS hazard category	UN Model Regulations class or division	GHS pictogram	UN Model Regulations pictograms	GHS signal word	GHS hazard statement	
Hazardous to the ozone layer	1	Not applicable		Not applicable	Warning	Harms public health and the environment by destroying ozone in the upper atmosphere	H420
Hazardous by contributing to global warming	1					Harms public health and the environment by contributing to global warming	H421