# **ANNEX 3**

# CODIFICATION OF HAZARD STATEMENTS, CODIFICATION AND USE OF PRECAUTIONARY STATEMENTS AND EXAMPLES OF PRECAUTIONARY PICTOGRAMS

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## Annex 3

# **Section 1**

# CODIFICATION OF HAZARD STATEMENTS

### A3.1.1 Introduction

- A3.1.1.1 *Hazard statement* means a statement assigned to a hazard class and category that describes the nature of the hazards of a hazardous product, including, where appropriate, the degree of hazard.
- A3.1.1.2 This section contains the recommended codes assigned to each of the hazard statements applicable to the hazard categories under the GHS.
- A3.1.1.3 The hazard statement codes are intended to be used for reference purposes. They are not part of the hazard statement text and should not be used to replace it.

### A3.1.2 Codification of hazard statements

- A3.1.2.1 Hazard statements are assigned a unique alphanumerical code which consists of one letter and three numbers, as follows:
  - (a) the letter "H" (for "hazard statement");
  - (b) a number designating the type of hazard to which the hazard statement is assigned according to the numbering of the different parts of the GHS, as follows:
    - "2" for physical hazards;
    - "3" for health hazards;
    - "4" for environmental hazards;
  - (c) two numbers corresponding to the sequential numbering of hazards arising from the intrinsic properties of the substance or mixture, such as explosivity (codes from 200 to 210), flammability (codes from 220 to 230), etc.
- A3.1.2.2 The codes to be used for designating hazard statements are listed, in numerical order, in Table A3.1.1 for physical hazards, Table A3.1.2 for health hazards and Table A3.1.3 for environmental hazards. Each table is divided into 4 columns containing the following information:
  - Column (1) The hazard statement code;
  - Column (2) The hazard statement text;

The text in bold should appear on the label, except as otherwise specified. The information in italics should also appear as part of the hazard statement when the information is known.

For example: "causes damages to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)".

- Column (3) Hazard class, with a reference to the chapter of the GHS where information about the hazard class may be found.
- Column (4) The hazard category or categories within a hazard class for which the use of a hazard statement is applicable.

- A3.1.2.3 In addition to individual hazard statements, a number of combined hazard statements are given in Table A3.1.2. The alphanumerical codes for the combined statements are constructed from the codes for the individual statements that are combined, conjoined with the plus ("+") sign. For example, H300 + H310 indicates that the text to appear on the label is "Fatal if swallowed or in contact with skin".
- A3.1.2.4 All assigned hazard statements should appear on the label unless otherwise specified in 1.4.10.5.3.3. The competent authority may specify the order in which they appear. Also, where a combined hazard statement is indicated for two or more hazard statements, the competent authority may specify whether the combined hazard statement or the corresponding individual statements should appear on the label, or may leave the choice to the manufacturer/supplier.

Table A3.1.1: Hazard statement codes for physical hazards

Code	Physical hazard statements	Hazard class (GHS chapter)	Hazard category
(1)	(2)	(3)	(4)
H200	Unstable explosive	Explosives (chapter 2.1)	Unstable explosive
H201	Explosive; mass explosion hazard	Explosives (chapter 2.1)	Division 1.1
H202	Explosive; severe projection hazard	Explosives (chapter 2.1)	Division 1.2
H203	Explosive; fire, blast or projection hazard	Explosives (chapter 2.1)	Division 1.3
H204	Fire or projection hazard	Explosives (chapter 2.1)	Division 1.4
H205	May mass explode in fire	Explosives (chapter 2.1)	Division 1.5
H220	Extremely flammable gas	Flammable gases (chapter 2.2)	1
H221	Flammable gas	Flammable gases (chapter 2.2)	2
H222	Extremely flammable aerosol	Flammable aerosols (chapter 2.3)	1
H223	Flammable aerosol	Flammable aerosols (chapter 2.3)	2
H224	Extremely flammable liquid and vapour	Flammable liquids (chapter 2.6)	1
H225	Highly flammable liquid and vapour	d vapour Flammable liquids (chapter 2.6)	
H226	Flammable liquid and vapour	Flammable liquids (chapter 2.6)	3
H227	Combustible liquid	Flammable liquids (chapter 2.6)	4
H228	Flammable solid	Flammable solids (chapter 2.7)	1, 2
H240	Heating may cause an explosion	Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15)	Type A
H241	Heating may cause a fire or explosion	Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15)	Туре В
H242	Heating may cause a fire	Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15)	Types C, D, E, F
H250	Catches fire spontaneously if exposed to air	Pyrophoric liquids (chapter 2.9); Pyrophoric solids (chapter 2.10)	1
H251	Self-heating; may catch fire	Self-heating substances and mixtures (chapter 2.11)	1
H252	Self-heating in large quantities; may catch fire	Self-heating substances and mixtures (chapter 2.11)	2

Code	Physical hazard statements	Hazard class (GHS chapter)	Hazard category
(1)	(2)	(3)	(4)
H260	In contact with water releases flammable gases which may ignite spontaneously	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1
H261	In contact with water releases flammable gas  Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)		2, 3
	T		
H270	May cause or intensify fire; oxidizer	Oxidizing gases (chapter 2.4)	1
H271	May cause fire or explosion; strong oxidizer	Oxidizing liquids (chapter 2.13); Oxidizing solids (chapter 2.14)	1
H272	May intensify fire; oxidizer	Oxidizing liquids (chapter 2.13); Oxidizing solids (chapter 2.14)	2, 3
H280	Contains gas under pressure; may explode if heated	Gases under pressure (chapter 2.5)	Compressed gas Liquefied gas Dissolved gas
H281	Contains refrigerated gas; may cause cryogenic burns or injury	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas
		,	
H290	May be corrosive to metals	Corrosive to metals (chapter 2.16)	1

Table A3.1.2: Hazard statement codes for health hazards

Code	Health hazard statements	Hazard class (GHS chapter)	Hazard category
(1)	(2)	(3)	<b>(4)</b>
H300	Fatal if swallowed	Acute toxicity, oral (chapter 3.1)	1, 2
H301	Toxic if swallowed	Acute toxicity, oral (chapter 3.1)	3
H302	Harmful if swallowed	Acute toxicity, oral (chapter 3.1)	4
H303	May be harmful if swallowed	Acute toxicity, oral (chapter 3.1)	5
H304	May be fatal if swallowed and enters airways	Aspiration hazard (chapter 3.10)	1
H305	May be harmful if swallowed and enters airways	Aspiration hazard (chapter 3.10)	2
H310	Fatal in contact with skin	Acute toxicity, dermal (chapter 3.1)	1, 2
H311	Toxic in contact with skin	Acute toxicity, dermal (chapter 3.1)	3
H312	Harmful in contact with skin	Harmful in contact with skin Acute toxicity, dermal (chapter 3.1)	
H313	May be harmful in contact with skin	Acute toxicity, dermal (chapter 3.1)	5
H314	Causes severe skin burns and eye damage	Skin corrosion/irritation (chapter 3.2)	1A, 1B, 1C
H315	Causes skin irritation	Skin corrosion/irritation (chapter 3.2)	2
H316	Causes mild skin irritation	Skin corrosion/irritation (chapter 3.2)	3
H317	May cause an allergic skin reaction	Sensitisation, skin (chapter 3.4)	1, 1A, 1B
H318	Causes serious eye damage	Serious eye damage/eye irritation (chapter 3.3)	1
H319	Causes serious eye irritation	Serious eye damage/eye irritation (chapter 3.3)	
H320	Causes eye irritation	Serious eye damage/eye irritation (chapter 3.3)	2B
H330	Fatal if inhaled	Acute toxicity, inhalation (chapter 3.1)	1, 2
H331	Toxic if inhaled	Acute toxicity, inhalation (chapter 3.1)	3
H332	Harmful if inhaled	Acute toxicity, inhalation (chapter 3.1)	4
H333	May be harmful if inhaled	Acute toxicity, inhalation (chapter 3.1)	5
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	Sensitisation, respiratory (chapter 3.4)	1, 1A, 1B
H335	May cause respiratory irritation	Specific target organ toxicity, single exposure; Respiratory tract irritation (chapter 3.8);	3
H336	May cause drowsiness or dizziness	Specific target organ toxicity, single exposure; Narcotic effects (chapter 3.8)	3
H340	May cause genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Germ cell mutagenicity (chapter 3.5)	1A, 1B
H341	Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Germ cell mutagenicity (chapter 3.5)	2
H350	May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Carcinogenicity (chapter 3.6)	1A, 1B

Code	Health hazard statements	Hazard class (GHS chapter)	Hazard category
(1)	(2)	(3)	(4)
H351	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Carcinogenicity (chapter 3.6)	2
H360	May damage fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Reproductive toxicity (chapter 3.7)	1A, 1B
H361	Suspected of damaging fertility or the unborn child (state specific effect if known)(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)  Reproductive toxicity (chapter 3.7)		2
H362	May cause harm to breast-fed children	Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category
H370	Causes damage to organs (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, single exposure (chapter 3.8)	1
H371	May cause damage to organs (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, single exposure (chapter 3.8)	2
H372	Causes damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Specific target organ toxicity, repeated exposure (chapter 3.9)	1
Н373	May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Specific target organ toxicity, repeated exposure (chapter 3.9)	2
	T	T	
H300 + H310	Fatal if swallowed or in contact with skin	Acute toxicity, oral (chapter 3.1) and acute toxicity dermal (chapter 3.1)	1, 2
H300 + H330	Fatal if swallowed or if inhaled	Acute toxicity, oral (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	1, 2
H310 + H330	Fatal in contact with skin or if inhaled	Acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	1, 2
H300 + H310 + H330	Fatal if swallowed, in contact with skin or if inhaled	Acute toxicity, oral (chapter 3.1), acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	1, 2
	·	-	
H301 + H311	Toxic if swallowed or in contact with skin	Acute toxicity, oral (chapter 3.1) and acute toxicity dermal (chapter 3.1)	3

Code	Health hazard statements	Hazard class (GHS chapter)	Hazard
(1)	(2)	(3)	category (4)
H301 + H331	Toxic if swallowed or if inhaled	Acute toxicity, oral (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	3
H311 + H331	Toxic in contact with skin or if inhaled	Acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	3
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled	Acute toxicity, oral (chapter 3.1), acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	3
H302 + H312	Harmful if swallowed or in contact with skin	Acute toxicity, oral (chapter 3.1) and acute toxicity dermal (chapter 3.1)	4
H302 + H332	Harmful if swallowed or if inhaled  Acute toxicity, oral (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)		4
H312 + H332	Harmful in contact with skin or if inhaled  Acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)		4
H302 + H312 + H332	Harmful if swallowed, in contact with skin or if inhaled	Acute toxicity, oral (chapter 3.1), acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	4
H303 + H313	May be harmful if swallowed or in contact with skin	Acute toxicity, oral (chapter 3.1) and acute toxicity dermal (chapter 3.1)	5
H303 + H333	May be harmful if swallowed or if inhaled	Acute toxicity, oral (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	5
H313 + H333	May be harmful in contact with skin or if inhaled  Acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)		5
H303 + H313 + H333	May be harmful if swallowed, in contact with skin or if inhaled	Acute toxicity, oral (chapter 3.1), acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1)	5
H315 + H320	Causes skin and eye irritation	Skin corrosion/irritation (chapter 3.2) and serious eye damage/eye irritation (chapter 3.3)	2 (skin)/2A (eye)

Table A3.1.3: Hazard statement codes for environmental hazards

Code	Environmental hazard statements	Hazard class (GHS chapter)	Hazard category
(1)	(2)	(3)	(4)
H400	Very toxic to aquatic life  Hazardous to the aquatic environment, acute hazard (chapter 4.1)		1
H401	Toxic to aquatic life	Hazardous to the aquatic environment, acute hazard (chapter 4.1)	
H402	Harmful to aquatic life  Hazardous to the aquatic environment, acute hazard (chapter 4.1)		3
H410	Very toxic to aquatic life with long lasting effects Hazardous to the aquatic environment, long-term hazard (chapter 4.1)		1
H411	Toxic to aquatic life with long lasting effects	Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	2
H412	Harmful to aquatic life with long lasting effects	Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	3
H413	May cause long lasting harmful effects to aquatic life	Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	4
		_	
H420	Harms public health and the environment by destroying ozone in the upper atmosphere	Hazardous to the ozone layer (chapter 4.2)	1

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# Annex 3

# Section 2

# CODIFICATION OF PRECAUTIONARY STATEMENTS

### A3.2.1 Introduction

- A3.2.1.1 A *precautionary statement* is a phrase (and/or pictogram) which describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposures to a hazardous product, or improper storage or handling of a hazardous product (see 1.4.10.5.2 (c)).
- A3.2.1.2 For the purposes of the GHS, there are five types of precautionary statements: **general, prevention, response** (in case of accidental spillage or exposure, emergency response and first-aid), **storage** and **disposal**. For guidance on the use of GHS precautionary statements, including advice on the selection of the appropriate statements for each GHS hazard class and category, see section 3 to this annex.
- A3.2.1.3 This section contains the recommended codes for each of the precautionary statement included in this annex.

# A3.2.2 Codification of precautionary statements

- A3.2.2.1 Precautionary statements are assigned a unique alphanumerical code which consists of one letter and three numbers as follows:
  - (a) a letter "P" (for "precautionary statement")
  - (b) one number designating the type of precautionary statement as follows:
    - "1" for general precautionary statements;
    - "2" for prevention precautionary statements;
    - "3" for response precautionary statements;
    - "4" for storage precautionary statements;
    - "5" for disposal precautionary statements;
  - (c) two numbers (corresponding to the sequential numbering of precautionary statements)
- A3.2.2.2 The precautionary statement codes are intended to be used for reference purposes. They are not part of the precautionary statement text and should not be used to replace it.
- A3.2.2.3 The codes to be used for designating precautionary statements are listed, in numerical order, in Table A3.2.1 for general precautionary statements, Table A3.2.2 for prevention precautionary statements, Table A3.2.3 for response precautionary statements, Table A3.2.4 for storage precautionary statements and Table A3.2.5 for disposal precautionary statements.

# A3.2.3 Structure of the precautionary statement codification tables

- A3.2.3.1 Each table is divided into 5 columns containing the following information:
  - Column (1) The precautionary statement code;
  - Column (2) The precautionary statement text;
  - Column (3) The hazard class and the route of exposure, where relevant, for which the use of a precautionary statement is recommended together with a reference to the chapter of the GHS where information about the hazard class may be found.

- Column (4) The hazard category or categories within a hazard class for which the use of a precautionary statement is applicable.
- Column (5) Where applicable, conditions relating to the use of a precautionary statement;
- A3.2.3.2 The tables show the **core part of the precautionary statements in bold print** in column (2). This is the text, except as otherwise specified, that should appear on the label. Derogations from the recommended labelling statements are at the discretion of competent authorities.
- A3.2.3.3 When a backslash or diagonal mark [/] appears in a precautionary statement text in column (2), it indicates that a choice has to be made between the phrases they separate. In such cases, the manufacturer or supplier can choose, or the competent authorities may prescribe the most appropriate phrase(s). For example in P280 "Wear protective gloves/protective clothing/eye protection/face protection" could read "wear eye protection".
- A3.2.3.4 When three full stops [...] appears in a precautionary statement text in column (2), they indicate that all applicable conditions are not listed. For example in P241 "Use explosion-proof electrical/ventilating/lighting/.../equipment", the use of "..." indicates that other equipment may need to be specified. Further details of the information to be provided may be found in column (5). In such cases the manufacturer or supplier can choose, or the competent authorities may prescribe the other conditions to be specified.
- A3.2.3.5 In cases where additional information is required or information has to be specified, this is indicated by a relevant entry in column (5) in plain text.
- A3.2.3.6 When *text in italics* is used in column (5), this indicates specific conditions applying to the use or allocation of the precautionary statement. This may relate to conditions attaching to either the general use of a precautionary statement or its use for a particular hazard class and/or hazard category. For example, for P241 "Use explosion-proof electrical/ventilating/lighting/.../equipment", only applies for flammable solids "*if dust clouds can occur*".
- A3.2.3.7 To facilitate translation into the languages of users, precautionary statements have been broken down into individual sentences in the tables in this section. In a number of instances the text that appears on a GHS label requires that these be added back together. This is indicated in this annex by codes conjoined with a plus sign "+". For example P305 + P351 + P338 indicates that the text to appear on the label is "IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing". These additive precautionary statements can also be found at the end of each of the precautionary statement tables in this section. Translation of only the single precautionary statements is required, as this will enable the compilation of the additive precautionary statements.

**Table A3.2.1: Codification of general precautionary statements** 

Code	General precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P101	If medical advice is needed, have product container or label at hand.	as appropriate		Consumer products
P102	Keep out of reach of children.	as appropriate		Consumer products
P103	Read label before use.	as appropriate		Consumer products

**Table A3.2.2: Codification of prevention precautionary statements** 

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P201	Obtain special instructions before use.	Explosives (chapter 2.1)	Unstable explosive	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category	
P202	Do not handle until all safety precautions have been read and understood.	Explosives (chapter 2.1)	Unstable explosive	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	Manufacturer/supplier or the competent authority to specify applicable ignition
		Flammable gases (chapter 2.2)	1, 2	source(s).
		Flammable aerosols (chapter 2.3)	1, 2	
		Flammable liquids (chapter 2.6)	1, 2, 3	
		Flammable solids (chapter 2.7)	1, 2	
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
		Flammable liquids (chapter 2.6)	4	- specify to keep away from flames and hot surfaces.
		Oxidizing liquids (chapter 2.13)	1, 2, 3	- specify to keep away from heat.
		Oxidizing solids (chapter 2.14)	1, 2, 3	
P211	Do not spray on an open flame or other ignition source.	Flammable aerosols (chapter 2.3)	1, 2	
P220	Keep/Store away from clothing//combustible	Oxidizing gases (chapter 2.4)	1	Manufacturer/supplier or the
	materials.	Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	competent authority to specify other incompatible materials.
		Oxidizing liquids (chapter 2.13)	2, 3	
		Oxidizing solids (chapter 2.14)	2, 3	]
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
		Oxidizing liquids (chapter 2.13)	1	- specify to keep away from clothing and
		Oxidizing solids (chapter 2.14)	1	other combustible materials.

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P221	Take any precaution to avoid mixing with	Oxidizing liquids (chapter 2.13)	1, 2, 3	Manufacturer/supplier or the
	combustibles/	Oxidizing solids (chapter 2.14)	1, 2, 3	competent authority to specify other incompatible materials.
P222	Do not allow contact with air.	Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	
P230	Keep wetted with	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.5	<ul> <li>Manufacturer/supplier or the competent authority to specify appropriate material.</li> <li>if drying out increases explosion hazard, except as needed for manufacturing or operating processes (e.g. nitrocellulose).</li> </ul>
P231	Handle under inert gas.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
P232	Protect from moisture.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
P233	Keep container tightly closed.	Flammable liquids (chapter 2.6)	1, 2, 3	
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	- if product is volatile so as to generate
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	hazardous atmosphere.
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P234	Keep only in original container.	Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
		Substances and mixtures corrosive to metals (chapter 2.16)	1	

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P235	Keep cool.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Self-heating substances and mixtures (chapter 2.11)	1, 2	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
	Ta	Terraria de la compansión	T	T
P240	Ground/bond container and receiving equipment.	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	- if the explosive is electrostatically sensitive.
		Flammable liquids (chapter 2.6)	1, 2, 3	<ul> <li>if electrostatically sensitive material is for reloading.</li> <li>if product is volatile so as to generate hazardous atmosphere.</li> </ul>
		Flammable solids (chapter 2.7)	1, 2	- if electrostatically sensitive material is for reloading.
P241	Use explosion-proof electrical/ventilating/lighting//equipment.	Flammable liquids (chapter 2.6)	1, 2, 3	Manufacturer/supplier or the competent authority to specify other equipment.
		Flammable solids (chapter 2.7)	1, 2	Manufacturer/supplier or the competent authority to specify other equipment if dust clouds can occur.
P242	Use only non-sparking tools.	Flammable liquids (chapter 2.6)	1, 2, 3	
P243	Take precautionary measures against static discharge.	Flammable liquids (chapter 2.6)	1, 2, 3	
P244	Keep reduction valves free from grease and oil.	Oxidizing gases (chapter 2.4)	1	
D250	D		D: : : 1.1	
P250	Do not subject to grinding/shock//friction.	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	Manufacturer/supplier or the competent authority to specify applicable rough handling.

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P251	Pressurized container: Do not pierce or burn, even after use.	Flammable aerosols (chapter 2.3)	1, 2	
P260	Do not breathe	Acute toxicity – inhalation (chapter 3.1)	1, 2	Manufacturer/supplier or the competent
	dust/fume/gas/mist/vapours/spray.	Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	authority to specify applicable conditions.
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1, 2	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	- specify do not breathe dusts or mists
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	- if inhalable particles of dusts or mists may occur during use.
P261	Avoid breathing	Acute toxicity – inhalation (chapter 3.1)	3, 4	Manufacturer/supplier or the competent
	dust/fume/gas/mist/vapours/spray.	Respiratory sensitization (chapter 3.4)	1, 1A, 1B	authority to specify applicable conditions.
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P262	Do not get in eyes, on skin, or on clothing.	Acute toxicity – dermal (chapter 3.1)	1, 2	
P263	Avoid contact during pregnancy/while nursing.	Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	
P264	Wash thoroughly after handling.	Acute toxicity – oral (chapter 3.1)	1, 2, 3, 4	Manufacturer/supplier or the
		Acute toxicity – dermal (chapter 3.1)	1, 2	competent authority to specify parts of the body to be washed after handling.
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Skin irritation (chapter 3.2)	2	
		Eye irritation (chapter 3.3)	2A, 2B	
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	<b>(4)</b>	(5)
P264 (cont'd)	Wash thoroughly after handling. (cont'd)	Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	Manufacturer/supplier or the competent authority to specify parts of the
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1	body to be washed after handling.
P270	Do not eat, drink or smoke when using this	Acute toxicity – oral (chapter 3.1)	1, 2, 3, 4	
	product.	Acute toxicity – dermal (chapter 3.1)	1, 2	
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1	
P271	Use only outdoors or in a well-ventilated area.	Acute toxicity – inhalation (chapter 3.1)	1, 2, 3, 4	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P272	Contaminated work clothing should not be allowed out of the workplace.	Skin sensitization (chapter 3.4)	1, 1A, 1B	
P273	Avoid release to the environment.	Hazardous to the aquatic environment, acute hazard (chapter 4.1)	1, 2, 3	- if this is not the intended use.
		Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	1, 2, 3, 4	

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P280	Wear protective gloves/protective clothing/eye protection/face protection.	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	- Specify face protection.  Manufacturer/supplier or the competent authority to specify type of equipment.
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	- Specify protective gloves and eye/face
		Flammable solids (chapter 2.7)	1, 2	protection.
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	Manufacturer/supplier or the competent authority to specify type of equipment.
		Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
		Self-heating substances and mixtures (chapter 2.11)	1, 2	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
		Oxidizing liquids (chapter 2.13)	1, 2, 3	
		Oxidizing solids (chapter 2.14)	1, 2, 3	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
		Acute toxicity – dermal (chapter 3.1)	1, 2, 3, 4	- Specify protective gloves/clothing.  Manufacturer/supplier or the competent authority to specify type of equipment.
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	<ul> <li>Specify protective gloves/clothing and eye/face protection.</li> <li>Manufacturer/supplier or the competent authority to specify type of equipment.</li> </ul>
		Skin irritation (chapter 3.2)	2	- Specify protective gloves.
		Skin sensitization (chapter 3.4)	1, 1A, 1B	Manufacturer/supplier or the competent authority to specify type of equipment.
		Severe eye damage (chapter 3.3)	1	- Specify eye/face protection.
		Eye irritation (chapter 3.3)	2A	Manufacturer/supplier or the competent authority to specify type of equipment.

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P281	Use personal protective equipment as required.	Explosives (chapter 2.1)	Unstable explosive	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
P282	Wear cold insulating gloves/face shield/eye protection.	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas	
P283	Wear fire/flame resistant/retardant clothing.	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P284	Wear respiratory protection.	Acute toxicity, inhalation (chapter 3.1)	1, 2	Manufacturer/supplier or the competent authority to specify equipment.
P285	In case of inadequate ventilation wear respiratory protection.	Respiratory sensitization (chapter 3.4)	1, 1A, 1B	Manufacturer/supplier or the competent authority to specify equipment.
		T	T	
P231 + P232	Handle under inert gas. Protect from moisture.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
P235 + P410	Keep cool. Protect from sunlight.	Self-heating substances and mixtures (chapter 2.11)	1, 2	

**Table A3.2.3: Codification of response precautionary statements** 

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P301	IF SWALLOWED:	Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Aspiration hazard (chapter 3.10)	1, 2	
P302	IF ON SKIN:	Pyrophoric liquids (chapter 2.9)	1	
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4	
		Skin irritation (chapter 3.2)	2	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
P303	IF ON SKIN (or hair):	Flammable liquids (chapter 2.6)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P304	IF INHALED:	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4, 5	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P305	IF IN EYES:	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Severe eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2A, 2B	
P306	IF ON CLOTHING:	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P307	IF exposed:	Specific target organ toxicity, single exposure (chapter 3.8)	1	
P308	IF exposed or concerned:	Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P309	IF exposed or if you feel unwell:	Specific target organ toxicity, single exposure (chapter 3.8)	2	
P310	Immediately call a POISON CENTER or	Acute toxicity, oral (chapter 3.1)	1, 2, 3	
	doctor/physician.	Acute toxicity, dermal (chapter 3.1)	1, 2	
		Acute toxicity, inhalation (chapter 3.1)	1, 2	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Severe eye damage (chapter 3.3)	1	
		Aspiration hazard (chapter 3.10)	1, 2	
P311	Call a POISON CENTER or doctor/physician.	Acute toxicity, inhalation (chapter 3.1)	3	
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	
P312	Call a POISON CENTER or doctor/physician if	Acute toxicity, oral (chapter 3.1)	4	
	you feel unwell.	Acute toxicity, oral (chapter 3.1)	5	
		Acute toxicity, dermal (chapter 3.1)	3, 4, 5	
		Acute toxicity, inhalation (chapter 3.1)	4	
		Acute toxicity, inhalation (chapter 3.1)	5	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P313	Get medical advice/attention.	Skin irritation (chapter 3.2)	2, 3	
		Eye irritation (chapter 3.3)	2A, 2B	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category	
P314	Get medical advice/attention if you feel unwell.	Specific target organ toxicity, repeated exposure (chapter 3.9)	1, 2	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
<b>(1)</b>	(2)	(3)	(4)	(5)
P315	Get immediate medical advice/attention.	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas	
P320	Specific treatment is urgent (see on this label).	Acute toxicity, inhalation (chapter 3.1)	1, 2	<ul> <li> Reference to supplemental first aid instruction.</li> <li>- if immediate administration of antidote is required.</li> </ul>
P321	Specific treatment (see on this label).	Acute toxicity, oral (chapter 3.1)	1, 2, 3	<ul><li> Reference to supplemental first aid instruction.</li><li>- if immediate administration of antidote is required.</li></ul>
		Acute toxicity, inhalation (chapter 3.1)	3	<ul><li> Reference to supplemental first aid instruction.</li><li>- if immediate specific measures are required.</li></ul>
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	Reference to supplemental first aid instruction.
		Skin irritation (chapter 3.2)	2	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	- manufacturer/supplier or competent authority may specify a cleansing agent if appropriate.
		Specific target organ toxicity, single exposure (chapter 3.8)	1	Reference to supplemental first aid instruction if immediate measures are required.
P322	Specific measures (see on this label).	Acute toxicity, dermal (chapter 3.1)	1, 2	Reference to supplemental first aid
		Acute toxicity, dermal (chapter 3.1)	3, 4	instruction if immediate measures such as specific cleansing agent is advised.
P330	Rinse mouth.	Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4	1
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P331	Do NOT induce vomiting.	Skin corrosion (chapter 3.2)	1A, 1B, 1C	_
		Aspiration hazard (chapter 3.10)	1, 2	
P332	If skin irritation occurs:	Skin irritation (chapter 3.2)	2, 3	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P333	If skin irritation or rash occurs:	Skin sensitization (chapter 3.4)	1, 1A, 1B	
P334	Immerse in cool water/wrap in wet bandages.	Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	
P335	Brush off loose particles from skin.	Pyrophoric solids (chapter 2.10)	1	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	
P336	Thaw frosted parts with lukewarm water. Do not rub affected area.	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas	
P337	If eye irritation persists:	Eye irritation (chapter 3.3)	2A, 2B	
P338	Remove contact lenses, if present and easy to do.	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
	Continue rinsing.	Severe eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2A, 2B	
			T	
P340	Remove victim to fresh air and keep at rest in a	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4	
	position comfortable for breathing.	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P341	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.	Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
P342	If experiencing respiratory symptoms:	Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
P350	Gently wash with plenty of soap and water.	Acute toxicity, dermal (chapter 3.1)	1, 2	
P351	Rinse cautiously with water for several minutes.	Skin corrosion (chapter 3.2)	1, 2 1A, 1B, 1C	
1331	Minse caudously with water for several limitutes.	Severe eye damage (chapter 3.3)	1A, 1B, 1C	
		Eye irritation (chapter 3.3)	2A, 2B	
		Eye IIIIanon (chapter 3.3)	2A, 2D	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P352	Wash with plenty of soap and water.	Acute toxicity, dermal (chapter 3.1)	3, 4	
		Skin irritation (chapter 3.2)	2	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
P353	Rinse skin with water/shower.	Flammable liquids (chapter 2.6)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
D2 60	In a second of the second of t			
P360	Rinse immediately contaminated clothing and skin with plenty of water before removing	Oxidizing liquids (chapter 2.13)	1	
	clothes.	Oxidizing solids (chapter 2.14)	1	
P361	Remove/Take off immediately all contaminated	Flammable liquids (chapter 2.6)	1, 2, 3	
	clothing.	Acute toxicity, dermal (chapter 3.1)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P362	Take off contaminated clothing and wash before reuse.	Skin irritation (chapter 3.2)	2	
P363	Wash contaminated clothing before reuse.	Acute toxicity, dermal (chapter 3.1)	1, 2, 3	
		Acute toxicity, dermal (chapter 3.1)	4	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
7.7	I- an	I		
P370	In case of fire:	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	
		Oxidizing gases (chapter 2.4)	1	
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	
		Flammable solids (chapter 2.7)	1, 2	
		Self-reactive substances and mixtures	Types A, B, C, D,	
		(chapter 2.8)	E, F	
		Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	<b>(4)</b>	(5)
P370	In case of fire: (cont'd)	Oxidizing liquids (chapter 2.13)	1, 2, 3	
(cont'd)		Oxidizing solids (chapter 2.14)	1, 2, 3	
P371	In case of major fire and large quantities:	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P372	Explosion risk in case of fire.	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5	- except if explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.
	DO NOT fight fire when fire reaches explosives.	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5	
P374	Fight fire with normal precautions from a reasonable distance.	Explosives (chapter 2.1)	Division 1.4	- if explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.
P375	Fight fire remotely due to the risk of explosion.	Self-reactive substances and mixtures (chapter 2.8)	Types A, B	
		Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P376	Stop leak if safe to do so.	Oxidizing gases (chapter 2.4)	1	
P377	Leaking gas fire: Do not extinguish, unless leak can be stopped safely.	Flammable gases (chapter 2.2)	1, 2	
P378	Use for extinction.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	Manufacturer/supplier or the competent
		Flammable solids (chapter 2.7)	1, 2	authority to specify appropriate media
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	- if water increases risk.
		Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
		Oxidizing liquids (chapter 2.13)	1, 2, 3	
		Oxidizing solids (chapter 2.14)	1, 2, 3	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P380	Evacuate area.	Explosives (chapter 2.1)	Unstable explosives	
		Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B	
		Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P381	Eliminate all ignition sources if safe to do so.	Flammable gases (chapter 2.2)	1, 2	
P390	Absorb spillage to prevent material-damage.	Substances and mixtures corrosive to metals (chapter 2.16)	1	
P391	Collect spillage.	Hazardous to the aquatic environment, acute hazard (chapter 4.1)	1	
		Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	1, 2	
			1	
P301	IF SWALLOWED: Immediately call a	Acute toxicity, oral (chapter 3.1)	1, 2, 3	
+ P310	POISON CENTER or doctor/physician.	Aspiration hazard (chapter 3.10)	1, 2	
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	Acute toxicity, oral (chapter 3.1)	4	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P302 + P334	IF ON SKIN: Immerse in cool water/wrap in wet bandages.	Pyrophoric liquids (chapter 2.9)	1	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P302	IF ON SKIN: Gently wash with plenty of soap	Acute toxicity, dermal (chapter 3.1)	1, 2	
+ P350	and water.			
P302	IF ON SKIN: Wash with plenty of soap and	Acute toxicity, dermal (chapter 3.1)	3, 4	
+	water.	Skin irritation (chapter 3.2)	2	
P352		Skin sensitization (chapter 3.4)	1, 1A, 1B	
P303	IF ON SKIN (or hair): Remove/Take off	Flammable liquids (chapter 2.6)	1, 2, 3	
P361 +	immediately all contaminated clothing. Rinse skin with water/shower.	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P353				
P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.	Acute toxicity, inhalation (chapter 3.1)	5	
P304	IF INHALED: Remove victim to fresh air and	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3, 4	
+	keep at rest in a position comfortable for	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P340	breathing.	Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.	Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
P305	IF IN EYES: Rinse cautiously with water for	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
+ D251	several minutes. Remove contact lenses, if	Severe eye damage (chapter 3.3)	1	
P351 + P338	present and easy to do. Continue rinsing.	Eye irritation (chapter 3.3)	2A, 2B	
P306	IF ON CLOTHING: Rinse immediately	Oxidizing liquids (chapter 2.13)	1	
+ P360	contaminated clothing and skin with plenty of water before removing clothes.	Oxidizing solids (chapter 2.14)	1	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P307 + P311	IF exposed: Call a POISON CENTER or doctor/physician.	Specific target organ toxicity, single exposure (chapter 3.8)	1	
P308	IF exposed or concerned: Get medical advice/	Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
+ P313	attention.	Carcinogenicity (chapter 3.6)	1A, 1B, 2	
P313		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Reproductive toxicity, effects on or via lactation (chapter 3.7)	Additional category	
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.	Specific target organ toxicity, single exposure (chapter 3.8)	2	
P332 + P313	If skin irritation occurs: Get medical advice/attention.	Skin irritation (chapter 3.2)	2, 3	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	Skin sensitization (chapter 3.4)	1, 1A, 1B	
P335	Brush off loose particles from skin. Immerse in	Pyrophoric solids (chapter 2.10)	1	
P334	cool water/wrap in wet bandages.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	
P337 + P313	If eye irritation persists: Get medical advice/attention.	Eye irritation (chapter 3.3)	2A, 2B	
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.	Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
P370 + P376	In case of fire: Stop leak if safe to do so.	Oxidizing gases (chapter 2.4)	1	

Code	Response precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P370	In case of fire: Use for extinction.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	Manufacturer/supplier or the competent
+		Flammable solids (chapter 2.7)	1, 2	authority to specify appropriate media.  - if water increases risk.
P378		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Pyrophoric liquids (chapter 2.9)	1	
		Pyrophoric solids (chapter 2.10)	1	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
		Oxidizing liquids (chapter 2.13)	1, 2, 3	
		Oxidizing solids (chapter 2.14)	1, 2, 3	
P370 + P380	In case of fire: Evacuate area.	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	
P370 + P380 + P375	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	Self-reactive substances and mixtures (chapter 2.8)	Types A, B	
P371	In case of major fire and large quantities:	Oxidizing liquids (chapter 2.13)	1	
+ P380 +	Evacuate area. Fight fire remotely due to the risk of explosion.	Oxidizing solids (chapter 2.14)	1	
P375				

**Table A3.2.4: Codification of storage precautionary statements** 

Code	Storage precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P401	Store	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5	in accordance with local/regional/ national/international regulations (to be specified).
P402	Store in a dry place.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
P403	Store in a well-ventilated place.	Flammable gases (chapter 2.2)	1, 2	
		Oxidizing gases (chapter 2.4)	1	
		Gases under pressure (chapter 2.5)	Compressed gas	
			Liquefied gas	
			Refrigerated Liquefied gas	
			Dissolved gas	
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	- if product is volatile so as to
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	generate hazardous atmosphere.
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
P404	Store in a closed container.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	

Code	Storage precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P405	Store locked up.	Acute toxicity, oral (chapter 3.1)	1, 2, 3	
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3	
		Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	
		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
		Aspiration hazard (chapter 3.10)	1, 2	
P406	Store in corrosive resistant/ container with a resistant inner liner.	Substances and mixtures corrosive to metals (chapter 2.16)	1	Manufacturer/supplier or the competent authority to specify other compatible materials.
P407	Maintain air gap between stacks/pallets.	Self-heating substances and mixtures (chapter 2.11)	1, 2	
P410	Protect from sunlight.	Flammable aerosols (chapter 2.3)	1, 2	
		Gases under pressure (chapter 2.5)	Compressed gas	
			Liquefied gas	
			Dissolved gas	
		Self-heating substances and mixtures (chapter 2.11)	1, 2	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	

Code	Storage precautionary statements	Hazard class	Hazard category	Conditions for use
<b>(1)</b>	(2)	(3)	(4)	(5)
P411	Store at temperatures not exceeding°C/°F.	Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	Manufacturer/supplier or the competent authority to specify temperature.
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
P412	Do not expose to temperatures exceeding 50 $^{\circ}$ C/122 $^{\circ}$ F.	Flammable aerosols (chapter 2.3)	1, 2	
P413	Store bulk masses greater than kg/lbs at temperatures not exceeding°C/°F.	Self-heating substances and mixtures (chapter 2.11)	1, 2	Manufacturer/supplier or the competent authority to specify mass and temperature.
P420	Store away from other materials.	Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Self-heating substances and mixtures (chapter 2.11)	1, 2	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
P422	Store contents under	Pyrophoric liquids (chapter 2.9)	1	Manufacturer/supplier or the competent authority to specify appropriate liquid or inert gas.
		Pyrophoric solids (chapter 2.10)	1	
P402 + P404	Store in a dry place. Store in a closed container.	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
P403	Store in a well-ventilated place. Keep container tightly closed.	Acute toxicity, inhalation (chapter 3.1)	1, 2, 3	- if product is volatile so as to
+ P233		Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	generate hazardous atmosphere.
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	

Code	Storage precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P403	Store in a well-ventilated place. Keep cool.	Flammable liquids (chapter 2.6)	1, 2, 3, 4	
P235		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
P410	Protect from sunlight. Store in a well-ventilated	Gases under pressure (chapter 2.5)	Compressed gas	
+ P403	place.		Liquefied gas	
1 .00			Dissolved gas	
	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.	Flammable aerosols (chapter 2.3)	1, 2	
P411 + P235	Store at temperatures not exceeding°C/°F. Keep cool.	Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	Manufacturer/supplier or the competent authority to specify temperature.

**Table A3.2.5: Codification of disposal precautionary statements** 

Code	Disposal precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P501	Dispose of contents/container to	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5	in accordance with local/regional/ national/international regulation (to be specified).
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
		Oxidizing liquids (chapter 2.13)	1, 2, 3	
		Oxidizing solids (chapter 2.14)	1, 2, 3	
		Organic peroxides (chapter 2.15)	Types A, B, C, D, E, F	
		Acute toxicity, oral (chapter 3.1)	1, 2, 3, 4	
		Acute toxicity, dermal (chapter 3.1)	1, 2, 3, 4	
		Acute toxicity, inhalation (chapter 3.1)	1, 2	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Respiratory sensitization (chapter 3.4)	1, 1A, 1B	
		Skin sensitization (chapter 3.4)	1, 1A, 1B	
		Germ cell mutagenicity (chapter 3.5)	1A, 1B, 2	
		Carcinogenicity (chapter 3.6)	1A, 1B, 2	
		Reproductive toxicity (chapter 3.7)	1A, 1B, 2	
		Specific target organ toxicity, single exposure (chapter 3.8)	1, 2	

Code	Disposal precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P501 (cont'd)	<b>Dispose of contents/container to</b> (cont'd)	Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8)	3	
		Specific target organ toxicity, repeated exposure (chapter 3.9)	1, 2	
		Aspiration hazard (chapter 3.10)	1, 2	
		Hazardous to the aquatic environment, acute hazard (chapter 4.1)	1, 2, 3	
		Hazardous to the aquatic environment, long-term hazard (chapter 4.1)	1, 2, 3, 4	
P502	Refer to manufacturer/supplier for information on recovery/recycling	Hazardous to the ozone layer (chapter 4.2)	1	

#### Annex 3

#### **Section 3**

#### **USE OF PRECAUTIONARY STATEMENTS**

#### A3.3.1 Introduction

- A3.3.1.1 This section provides guidance on the use of precautionary statements consistent with the GHS, including advice on the selection of appropriate statements for each GHS hazard class and category.
- A3.3.1.2 The starting point for assigning precautionary statements is the hazard classification of the chemical product. The system of classifying hazards in the GHS is based on the intrinsic properties of the chemicals involved (see 1.3.2.2.1). In some systems, however, labelling may not be required for chronic hazards on consumer product labels, if information shows that the respective risks can be excluded under conditions of normal handling, normal use or foreseeable misuse (see Annex 5). If certain hazard statements are not required then the corresponding precautionary statements are also not necessary (see A5.1.1).
- A3.3.1.3 The guidance for assigning the phrases in this section has been developed to provide the essential minimum phrases linking precautionary statements with relevant GHS hazard classification criteria and type of hazard.
- A3.3.1.4 Existing precautionary statements have been used to the maximum extent as the basis for the development of this section. These existing systems have included the IPCS International Chemical Safety Card (ICSC) Compilers Guide, the American National Standards (ANSI Z129.1), the EU classification and labelling directives, the Emergency Response Guidebook (ERG 2004), and the Pesticide Label Review Manual of the Environmental Protection Agency (EPA) of the United States of America.
- A3.3.1.5 The goal of this section is to promote a more consistent use of precautionary statements. Their use will reinforce safe handling procedures and will enable the key concepts and approaches to be emphasized in training and education activities.
- A3.3.1.6 This section should be seen as a living document and therefore subject to further refinement and development over time. The basic concepts of the matrix and the philosophy given below will remain.

#### A3.3.2 Allocation of precautionary statements

- A3.3.2.1 This section sets out a matrix which guides the selection of appropriate precautionary statements. It includes elements for all categories of precautionary action. All specific elements relating to particular hazard classes should be used. General elements not linked in particular to a certain hazard class or category should also be used where relevant.
- A3.3.2.2 To provide flexibility in the application of precautionary phrases, a combination of statements is encouraged to save label space and improve their readability. Combination of phrases can also be useful for different types of hazard where the precautionary behaviour is similar, e.g. "**Keep away from heat, sparks and open flame and store in a cool well ventilated place".**
- A3.3.2.3 Precautionary statements should appear on GHS labels along with the GHS hazard communication elements (pictograms, signal words and hazard statements). Additional supplemental information, such as directions for use, may also be provided at the discretion of the manufacturer/supplier and/or competent authority (see Chapter 1.2 and Chapter 1.4, para. 1.4.6.3). For some specific chemicals, supplementary first aid, treatment measures or specific antidotes or cleansing materials may be required. Poisons Centres and/or medical practitioners or specialist advice should be sought in such situations and included on labels.

#### A3.3.3 General precautionary measures

- A3.3.3.1 General precautionary measures should be adopted for all substances and mixtures which are classified as hazardous to human health or the environment. To this end, the needs of and the information sources available to three groups of users or applicators should be taken into account: the general public, the commercial user and the industrial worker.
- A3.3.3.2 The presumed observation of precautionary label information, specific safety guidelines, and the safety data sheet for each product before use are part of the labelling requirements and occupational health and safety procedures.
- A3.3.3.3 In order to correctly implement precautionary measures concerning prevention, response, storage and disposal, it is also necessary to have information on the composition of products at hand, so that information shown on the container, label and safety data sheet can be taken into account when asking for further specialist advice.
- A3.3.3.4 The following general precautionary statements on the GHS label are appropriate under the given conditions:

General public	GHS label, supplemental label information	P101	If medical advice is needed: Have product container or label at hand.
		P102	Keep out of reach of children.
		P103	Read label before use.
Industrial worker	GHS label, supplemental label information, Safety Data Sheet, workplace instructions		none of the above

#### A3.3.4 Structure of the precautionary statements matrix

- A3.3.4.1 The tables making up the matrix show the core part of the precautionary statements in bold print. This is the text, except as otherwise specified, that should appear on the label. However, it is not necessary to insist on identical sets of words in all situations. Derogations from the recommended labelling statements are at the discretion of competent authorities. In all cases, clear plain language is essential to convey information on precautionary behaviour.
- A3.3.4.2 Text in italics that starts with "-if" or "- specify" is intended to be an explanatory conditional note for the application of the precautionary statements and is not intended to appear on the label.
- A3.3.4.3 When a backslash or diagonal mark [/] appears in a precautionary statement text, it indicates that a choice needs to be made between the words they separate. In such cases, the manufacturer or supplier can choose or competent authorities may prescribe the most appropriate phrase(s). For example, "Keep away from heat/sparks/open flames/hot surfaces" could read "Keep away from heat".
- A3.3.4.4 When three full stops [...] appear in a precautionary statement text, they indicate that all applicable conditions are not listed. In such cases the manufacturer or supplier can choose, or the competent authorities may prescribe the other conditions to be specified. For example, in the statement "Use explosion-proof electrical/ventilating/lighting/.../equipment", the use of "..." indicates that other equipment may need to be specified.
- A3.3.4.5 In the majority of cases, the recommended precautionary statements are independent, e.g. the phrases for explosive hazard do not modify those related to certain health hazards and products that are classified for both hazard classes should bear appropriate precautionary statements for both.

- A3.3.4.6 Where a substance or mixture is classified for a number of health hazards, generally the most stringent set of precautionary statements should be selected. This applies mainly for the preventive measures. With respect to phrases concerning "Response", rapid action may be crucial. For example, if a chemical is carcinogenic and acutely toxic then the first aid measures for acute toxicity will take precedence over those for longer term effects. In addition, medical attention to delayed health effects may be required in cases of incidental exposure, even if not associated with immediate symptoms of intoxication.
- A3.3.4.7 To protect people with different reading abilities, it might be useful to include both precautionary pictograms and precautionary statements in order to convey information in more than one way (see 1.4.4.1 (a)). It should be noted, however, that the protective effect of pictograms is limited and the examples in this annex do not cover all precautionary aspects to be addressed. While pictograms can be useful, they can be misinterpreted and are not a substitute for training.

#### A3.3.5 Matrix of precautionary statements by hazard class/category

A3.3.5.1 This matrix lists the recommended precautionary statements for each hazard class and hazard category of the GHS by type of precautionary statement (see A3.2.2.1) except for general precautionary statements. In each case the precautionary statement has the applicable code on the line immediately above.

### **EXPLOSIVES** (CHAPTER 2.1)

**Symbol** Exploding bomb

Hazard category Signal word Hazard statement

Unstable explosive Danger H200 Unstable explosive



	Precautionary statements			
	Prevention	Response	Storage	Disposal
2	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required.	P372 Explosion risk in case of fire. P373 DO NOT fight fire when fire reaches explosives. P380 Evacuate area.	P401 Storein accordance with local/regional/ national/international regulations (to be specified).	Dispose of contents/container toin accordance with local/regional/ national/international regulations (to be specified).

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## EXPLOSIVES (CHAPTER 2.1)

**Symbol** Exploding bomb



Hazard category	Signal word	Hazard	statement
Division 1.1	Danger	H201	Explosive; mass explosion hazard
Division 1.2	Danger	H202	Explosive; severe projection hazard
Division 1.3	Danger	H203	Explosive; fire, blast or projection hazard

Precautionary statements			
Prevention	Response	Storage	Disposal
P210	P370 +P380	P401	P501
Keep away from heat/sparks/open flames/hot surfaces No smoking.  Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P230 Keep wetted with Manufacturer/supplier or the competent authority to specify appropriate material if drying out increases explosion hazard, except as needed for manufacturing or operating processes (e.g. nitrocellulose). P240 Ground/bond container and receiving equipment if the explosive is electrostatically sensitive. P250 Do not subject to grinding/shock//frictionManufacturer/supplier or the competent authority to specify applicable rough handling. P280 Wear face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	In case of fire: evacuate area. P372 Explosion risk in case of fire. P373 DO NOT fight fire when fire reaches explosives.	Storein accordance with local/regional/national/international regulations (to be specified).	Dispose of contents/container to in accordance with local/ regional/national/international regulations (to be specified).

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#### EXPLOSIVES (CHAPTER 2.1)

**Symbol** Exploding bomb

Hazard category Signal word Hazard statement

Division 1.4 Warning H204 Fire or projection hazard



	Precautionary s	statements	
Prevention	Response	Storage	Disposal
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.  Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P240 Ground/bond container and receiving equipment if the explosive is electrostatically sensitive. P250 Do not subject to grinding/shock//friction.  Manufacturer/supplier or the competent authority to specify applicable rough handling. P280 Wear face protection.  Manufacturer/supplier or competent authority to specify type of equipment.	P370+P380 In case of fire: Evacuate area. P372 Explosion risk in case of fire except if explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF. P373 DO NOT fight fire when fire reaches explosives. P374 Fight fire with normal precautions from a reasonable distance If explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.	P401 Storein accordance with local/regional/ national/international regulations (to be specified).	Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

## EXPLOSIVES (CHAPTER 2.1)

**Symbol**No symbol

Hazard category Signal word Hazard statement

Division 1.5 Danger H205 May mass explode in fire

Division 1.5 Danger	H205 May n	hass explode in fire		
Precautionary statements				
Prevention	Response	Storage	Disposal	
P210	P370 + P380	P401	P501	
Keep away from heat/sparks/open flames/he	In case of fire: Evacuate area.	Store	Dispose of contents/container to	
surfaces No smoking.	P372	in accordance with local/regional/	in accordance with local/regional/	
Manufacturer/supplier or the competent	Explosion risk in case of fire.	national/international regulations (to	national/international regulations (to	
authority to specify applicable ignition	P373	be specified).	be specified).	
source(s).	DO NOT fight fire when fire reaches			
P230	explosives.			
Keep wetted with				
Manufacturer/supplier or the competent				
authority to specify appropriate material.				
- if drying out increases explosion hazard,				
except as needed for manufacturing or				
operating processes (e.g. nitrocellulose).				
P240 Crownd/hand container and receiving				
Ground/bond container and receiving equipment				
- if the explosive is electrostatically sensitive.				
P250				
Do not subject to grinding/shock//friction				
Manufacturer/supplier or the competent				
authority to specify applicable rough handling.				
P280				
Wear face protection.				
Manufacturer/supplier or competent authority	0			
specify type of equipment.				
1 7 71 11				

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#### FLAMMABLE GASES (CHAPTER 2.2)

**Symbol** Flame

Hazard category Signal word Hazard statement

Danger H220 Extremely flammable gas



Precautionary statements			
Prevention	Response	Storage	Disposal
P210	P377	P403	
Keep away from heat/sparks/open	Leaking gas fire:	Store in well-ventilated place.	
flames/hot surfacesNo smoking.	Do not extinguish, unless leak can be		
Manufacturer/supplier or competent	stopped safely.		
authority to specify applicable ignition	P381		
source(s).	Eliminate all ignition sources if safe to		
	do so.		

### FLAMMABLE GASES (CHAPTER 2.2)

S	ymbol	
No	symbol	

Hazard category Signal word Hazard statement

Warning H221 Flammable gas

Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat/sparks/open flames/hot surfacesNo smoking. Manufacturer/supplier or the competent authority to specify applicable ignition sources(s).	P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 Eliminate all ignition sources if safe to do so.	P403 Store in well-ventilated place.	

#### FLAMMABLE AEROSOLS (CHAPTER 2.3)

**Symbol** Flame

Hazard category Signal word Hazard statement

Danger H222 Extremely flammable aerosol

Warning H223 Flammable aerosol



Precautionary statements				
Prevention	Response	Storage	Disposal	
P210 Keep away from heat/sparks/open flames/hot surfacesNo smoking. Manufacturer/supplier or the competent authority to specify applicable ignition sources(s). P211 Do not spray on an open flame or other ignition source. P251 Pressurized container: Do not pierce or burn, even after use.		P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.		

### OXIDIZING GASES (CHAPTER 2.4)

**Symbol** Flame over circle

Hazard category Signal word Hazard statement

Danger H270 May cause or intensify fire; oxidizer



Precautionary statements			
Prevention	Response	Storage	Disposal
P220	P370 + P376	P403	
Keep/Store away from	In case of fire: Stop leak if safe to do so.	Store in well-ventilated place.	
clothing//combustible materials.			
Manufacturer/supplier or the competent			
authority to specify other incompatible			
materials.			
P244			
Keep reduction valves free from grease and oil.			

#### GASES UNDER PRESSURE (CHAPTER 2.5)

**Symbol**Gas cylinder

Hazard category	Signal word	Hazard statement
Compressed gas	Warning	H280 Contains gas under pressure; may explode if heated

Liquefied gas Warning H280 Contains gas under pressure; may explode if heated

Dissolved gas Warning H280 Contains gas under pressure; may explode if heated

Precautionary statements					
Prevention Response Storage Disposal					
	P410 + P403				
	Protect from sunlight. Store in a well-				
ventilated place.					

#### GASES UNDER PRESSURE (CHAPTER 2.5)

**Symbol**Gas cylinder

Hazard category Signal word Hazard statement

Refrigerated liquefied gas Warning H281 Contains refrigerated gas; may cause cryogenic burns or injury



Precautionary statements			
Prevention	Response	Storage	Disposal
P282 Wear cold insulating gloves/face shield/eye protection.	P336 Thaw frosted parts with lukewarm water. Do not rub affected area. P315 Get immediate medical advice/attention	P403 Store in well-ventilated place.	

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**Hazard category** 

specify other equipment.

Use only non-sparking tools.

specify type of equipment.

Take precautionary measures against static discharge.

Wear protective gloves/eye protection/face protection Manufacturer/supplier or the competent authority to

P242

P243

P280

Signal word

Danger

#### FLAMMABLE LIQUIDS (CHAPTER 2.6)

**Hazard statement** 

H224 Extremely flammable liquid and vapour

Symbol Flame

	2 Danger	H225 Highly flammable li	iquid and vapour		
_	3 Warning	H226 Flammable liquid an	nd vapour	<u> </u>	
	Precautionary statements				
	Prevention	Response	Storage	Disposal	
	P210	P303 + P361 + P353	P403 + P235	P501	
	Keep away from heat/sparks/open flames/hot	IF ON SKIN (or hair): Remove/Take off	Store in a well-ventilated	Dispose of contents/container	
	surfaces No smoking.	immediately all contaminated clothing.	place. Keep cool.	to	
	Manufacturer/supplier or the competent authority to	Rinse skin with water/shower.		in accordance with	
	specify applicable ignition source(s).	P370 + P378		local/regional/national/internationa	
1	P233	In case of fire: Use for extinction.		l regulations (to be specified).	
346	Keep container tightly closed.	Manufacturer/supplier or the competent			
- 6	P240	authority to specify appropriate media.			
	Ground/Bond container and receiving equipment	- if water increases risk.			
	- if electrostatically sensitive material is for reloading.				
	- if product is volatile so as to generate hazardous atmosphere.				
	P241				
	Use explosion-proof electrical/ventilating/				
	lighting//equipment.				
	Manufacturer/supplier or the competent authority to				

#### FLAMMABLE LIQUIDS (CHAPTER 2.6)

**Symbol**No symbol

Hazard category Signal word Hazard statement

Warning H227 Combustible liquid

·		isticite inquite		
Precautionary statements				
Prevention	Response	Storage	Disposal	
P210	P370 + P378	P403 + P235	P501	
Keep away from flames and hot surfaces No	In case of fire: Use for extinction.	Store in a well-ventilated place.	Dispose of contents/container to	
smoking.	Manufacturer/supplier or the	Keep cool.	in accordance with local/regional/	
P280	competent authority to specify		national/international regulations (to	
Wear protective gloves/eye protection/face	appropriate media.		be specified).	
protection	- if water increases risk.			
Manufacturer/supplier or the competent authority to				
specify type of equipment.				

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#### FLAMMABLE SOLIDS (CHAPTER 2.7)

**Symbol** Flame

Hazard category Signal word Hazard statement

Danger H228 Flammable solid
Warning H228 Flammable solid



Precautionary statements			
Prevention	Response	Storage	Disposal
P210	P370 + P378		
Keep away from heat/sparks/open flames/hot surfaces No smoking.  Manufacturer/supplier or the competent authority to specify applicable ignition source(s).	In case of fire: Use for extinction Manufacturer/supplier or the competent authority to specify appropriate media if water increases risk.		
P240			
Ground/Bond container and receiving equipment.  - if electrostatically sensitive material is for			
reloading. P241			
Use explosion-proof electrical/ventilating/lighting//equipment Manufacturer/supplier or the competent authority to specify other equipment if dust clouds can occur.			
P280 Wear protective gloves/eye protection/face protection Manufacturer/supplier or the competent			
authority to specify type of equipment.			

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#### SELF-REACTIVE SUBSTANCES AND MIXTURES (CHAPTER 2.8)

**Symbol** Exploding bomb

Hazard category Signal word Hazard statement

Type A Danger H240 Heating may cause an explosion



Precautionary statements				
Prevention	Response	Storage	Disposal	
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking.  Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P220 Keep/Store away from clothing//combustible materials Manufacturer/supplier or the competent authority to specify other incompatible materials. P234 Keep only in original container. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use for extinction Manufacturer/supplier or the competent authority to specify appropriate media if water increases risk. P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	P403 + P235  Store in a well-ventilated place.  Keep cool.  P411  Store at temperatures not exceeding °C/ °F.  Manufacturer/supplier or the competent authority to specify temperature.  P420  Store away from other materials.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).	

**Hazard category** 

Type B

Signal word

Danger

#### SELF-REACTIVE SUBSTANCES AND MIXTURES **(CHAPTER 2.8)**

**Hazard statement** 

H241

Heating may cause a fire or explosion

Symbol Exploding bomb and flame





Precautionary statements						
Prevention	Prevention Response Storage					
Prevention  P210  Keep away from heat/sparks/open flames/hot surfaces No smoking.  Manufacturer/supplier or the competent authority to specify applicable ignition source(s).  P220  Keep/Store away from clothing//combustible materials.  Manufacturer/supplier or the competent authority to specify other incompatible materials.  P234	P370 + P378 In case of fire: Use for extinction Manufacturer/supplier or the competent authority to specify appropriate media if water increases risk P370 + P380 + P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.	P403 + P235 Store in a well-ventilated place. Keep cool. P411 Store at temperatures not exceeding °C/ °F Manufacturer/supplier or the competent authority to specify temperature. P420 Store away from other materials.	P501 Dispose of contents/container toin accordance with local/regional/national/international regulations (to be specified).			
Keep only in original container. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.						

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### SELF-REACTIVE SUBSTANCES AND MIXTURES (CHAPTER 2.8)

Symbol	
Flame	

Hazard category	Signal word	Hazard statement	
Type C	Danger	H242	Heating may cause a fire
Type D	Danger	H242	Heating may cause a fire
Type E	Warning	H242	Heating may cause a fire
Type F	Warning	H242	Heating may cause a fire



Precautionary statements				
Prevention	Response	Disposal		
Prevention  P210  Keep away from heat/sparks/open flames/hot surfaces No smoking.  Manufacturer/supplier or the competent authority to specify applicable ignition source(s).  P220  Keep/Store away from clothing//combustible materials. Manufacturer/supplier or the competent authority to specify other incompatible materials.  P234  Keep only in original container.  P280  Wear protective gloves/eye protection/face protection.  Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use for extinction Manufacturer/supplier or the competent authority to specify appropriate media if water increases risk.	P403 + P235 Store in a well-ventilated place. Keep cool. P411 Store at temperatures not exceeding°C/°FManufacturer/supplier or the competent authority to specify temperature. P420 Store away from other materials.	P501  Dispose of contents/container toin accordance with local/regional/national/international regulations (to be specified).	

### PYROPHORIC LIQUIDS (CHAPTER 2.9)

**Symbol** Flame

**Hazard category** 

Signal word

Hazard statement

Danger

H250 Catches fire spontaneously if exposed to air



Precautionary statements				
Prevention	Response	Storage	Disposal	
P210	P302 + P334	P422		
Keep away from heat/sparks/open flames/hot	IF ON SKIN: Immerse in cool	Store contents under		
surfaces No smoking.	water/wrap with wet bandages	Manufacturer/supplier or the		
Manufacturer/supplier or the competent	P370 + P378	competent authority to specify		
authority to specify applicable ignition	In case of fire: Use for extinction	appropriate liquid or inert gas.		
sources(s).	Manufacturer/supplier or the competent			
P222	authority to specify appropriate media.			
Do not allow contact with air.	- if water increases risk.			
P280				
Wear protective gloves/eye protection/face				
protection.				
Manufacturer/supplier or the competent				
authority to specify type of equipment.				

#### PYROPHORIC SOLIDS (CHAPTER 2.10)

**Symbol** Flame

**Hazard category** 

Signal word

**Hazard statement** 

Danger

H250 Catches fire spontaneously if exposed to air



Precautionary statements				
Prevention	Response	Storage	Disposal	
P210	P335 + P334	P422		
Keep away from heat/sparks/open flames/hot	Brush off loose particles from skin.	Store contents under		
surfaces No smoking.	Immerse in cool water/wrap in wet	Manufacturer/supplier or the		
Manufacturer/supplier or the competent	bandages.	competent authority to specify		
authority to specify applicable ignition	P370 + P378	appropriate liquid or inert gas.		
source(s).	In case of fire: Use for extinction			
P222	Manufacturer/supplier or the competent			
Do not allow contact with air.	authority to specify appropriate media.			
P280	- if water increases risk.			
Wear protective gloves/eye protection/face				
protection				
Manufacturer/supplier or the competent				
authority to specify type of equipment.				

#### SELF-HEATING SUBSTANCES AND MIXTURES (CHAPTER 2.11)

**Symbol** Flame

Hazard category Signal word Hazard statement

Danger H251 Self-heating; may catch fire

Warning H252 Self-heating in large quantities; may catch fire



Precautionary statements			
Prevention	Response	Storage	Disposal
P235 + P410		P407	
Keep cool. Protect from sunlight.		Maintain air gap between	
P280		stacks/pallets.	
Wear protective gloves/eye protection/face		P413	
protection.		Store bulk masses greater than	
Manufacturer/supplier or the competent		kg/lbs at temperatures not	
authority to specify type of equipment.		exceeding°C/°F.	
		Manufacturer/supplier or the	
		competent authority to specify mass	
		and temperature.	
		P420	
		Store away from other materials.	

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#### SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES (CHAPTER 2.12)

**Symbol** Flame

Hazard category	Signal word	Hazard	statement
1	Danger	H260	In contact with water releases flammable gases, which may ignite spontaneously
2	Danger	H261	In contact with water releases flammable gas



Precautionary statements			
Prevention	Response	Storage	Disposal
P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.	P335 + P334 Brush off loose particles from skin and immerse in cool water/wrap in wet bandages.	P402 + P404 Store in a dry place. Store in a closed container.	P501 Dispose of contents/container toin accordance with local/regional/national/ international
P231 + P232 Handle under inert gas. Protect from moisture. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use for extinction Manufacturer/supplier or the competent authority to specify appropriate media if water increases risk.		regulations (to be specified).

#### SUBSTANCES AND MIXTURES WHICH, IN CONTACT WITH WATER, EMIT FLAMMABLE GASES (CHAPTER 2.12)

**Symbol** Flame

Hazard category

3

Signal word

**Hazard statement** 

Warning

H261 In contact with water releases flammable gas



Prevention	Response	Storage	Disposal
Handle under inert gas. Protect from moisture.  P280 In ca M authorized a	case of fire: Use for extinction.	P402 + P404 Store in a dry place. Store in a closed container.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

### OXIDIZING LIQUIDS (CHAPTER 2.13)

**Symbol** Flame over circle

**Hazard category** 

Signal word

**Hazard statement** 

Danger

H271 May cause fire or explosion; strong oxidizer



Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat. P220 Keep/Store away from clothing and other combustible materials. P221 Take any precaution to avoid mixing with combustibles/ Manufacturer/supplier or the competent authority to specify other incompatible materials. P280 Wear protective gloves /eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment. P283 Wear fire/flame resistant/retardant clothing.	P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. P370 + P378 In case of fire: Use for extinction Manufacturer/supplier or the competent authority to specify appropriate media if water increases risk.		P501 Dispose of contents/container toin accordance with local/regional/ national/international regulations (to be specified).

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#### OXIDIZING LIQUIDS (CHAPTER 2.13)

**Symbol** Flame over circle

Hazard categorySignal wordHazard statement2DangerH272May intens

H272 May intensify fire; oxidizer

Warning H272 May intensify fire; oxidizer



	Precautionary statements		
Prevention	Response	Storage	Disposal
P210 Keep away from heat. P220 Keep/Store away from clothing//combustible materialsManufacturer/supplier or the competent authority to specify other incompatible materials. P221 Take any precaution to avoid mixing with combustibles/ Manufacturer/supplier or the competent authority to specify other incompatible materials. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P370 + P378 In case of fire: Use for extinction Manufacturer/supplier or the competent authority to specify appropriate media if water increases risk.		P501  Dispose of contents/container to in accordance with local/regional/ national/international regulations (to be specified).

### OXIDIZING SOLIDS (CHAPTER 2.14)

**Symbol** Flame over circle

**Hazard category** 

Signal word

**Hazard statement** 

1

Danger

H271 May cause fire or explosion; strong oxidizer

Precautionary statements			
Prevention	Response	Storage	Disposal
P210 Keep away from heat. P220 Keep away from clothing and other combustible materials. P221 Take any precaution to avoid mixing with combustibles/Manufacturer/supplier or the competent authority to specify other incompatible materials. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment. P283 Wear fire/flame resistant/retardant clothing.	P306 + P360  IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.  P371 + P380 + P375  In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.  P370 + P378  In case of fire: Use for extinction.  Manufacturer/supplier or the competent authority to specify appropriate media.  - if water increases risk.		P501  Dispose of contents/container toin accordance with local/regional/ national/international regulations (to be specified).

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### OXIDIZING SOLIDS (CHAPTER 2.14)

Symbol

Flame over circle



Hazard category Signal word Hazard statement

2 Danger H272 May intensify fire; oxidizer 3 Warning H272 May intensify fire; oxidizer

	Precautionary statements				
Prevention	Response	Storage	Disposal		
P210 Keep away from heat.  P220 Keep/Store away from clothing// combustible materials Manufacturer/supplier or the competent authority to specify incompatible materials.  P221 Take any precaution to avoid mixing with combustibles/Manufacturer/supplier or the competent authority to specify other incompatible materials.	P370 + P378  In case of fire: Use for extinction Manufacturer/supplier or the competent authority to specify appropriate media if water increases risk.		Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).		
P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.					

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### ORGANIC PEROXIDES (CHAPTER 2.15)

**Symbol** Exploding bomb

Hazard category Signal word Hazard statement

Type A Danger H240 Heating may cause an explosion



Precautionary statements				
Prevention	Response	Storage	Disposal	
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P220 Keep/Store away from clothing//combustible materials.		P411 + P235  Store at temperatures not exceeding °C/ °F. Keep cool Manufacturer/supplier or the competent authority to specify temperature.  P410  Protect from sunlight.  P420	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).	
Manufacturer/supplier or the competent authority to specify incompatible materials.		Store away from other materials.		
P234 Keep only in original container.				
P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.				

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### ORGANIC PEROXIDES (CHAPTER 2.15)

Symbol

Exploding bomb and flame

Symbol

Hazard category Signal word Hazard statement

Type B Danger H241 Heating may cause a fire or explosion





Precautionary statements				
Prevention	Response	Storage	Disposal	
P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P220 Keep /Store away from		P411 + P235 Store at temperatures not exceeding °C/ °F. Keep cool. Manufacturer/supplier or the competent authority to specify temperature. P410 Protect from sunlight.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).	
clothing//combustible materials Manufacturer/supplier or the competent authority to specify incompatible materials.		P420 Store away from other materials.		
P234 Keep only in original container.				
P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.				

# ORGANIC PEROXIDES (CHAPTER 2.15)

Symbol	
Flame	

Hazard category	Signal word	Hazard statement	
Type C	Danger	H242	Heating may cause a fire
Type D	Danger	H242	Heating may cause a fire
Type E	Warning	H242	Heating may cause a fire
Type F	Warning	H242	Heating may cause a fire



Type F warming H242 Heating may cause a me					
Precautionary statements					
Prevent	ion	Response	Storage	Disposal	
P210 Keep away from heat/spar surfaces No smoking. Manufacturer/supplier or th to specify applicable ignition	e competent authority		P411 + P235  Store at temperatures not exceeding°C/°F. Keep cool Manufacturer/supplier or the competent authority to specify temperature.	P501 <b>Dispose of contents/container to</b> in accordance with local/regional/national/international regulations (to be specified).	
P220 Keep/Store away from clomaterials Manufacturer/supplier or authority to specify incomp	the competent		P410 Protect from sunlight. P420 Store away from other materials.		
P234 Keep only in original cont	ainer.				
P280 Wear protective gloves/ey protection. Manufacturer/supplier or th to specify type of equipment	e competent authority				

### CORROSIVE TO METALS (CHAPTER 2.16)

**Symbol** Corrosion

Hazard category Signal word Hazard statement

Warning H290 May be corrosive to metals



Precautionary statements				
Prevention	Response	Storage	Disposal	
P234	P390	P406		
Keep only in original container.	Absorb spillage to prevent material	Store in corrosive resistant/ container		
	damage.	with a resistant inner liner.		
		Manufacturer/supplier or the competent		
		authority to specify other compatible		
		materials.		

### ACUTE TOXICITY - ORAL (CHAPTER 3.1)

Symbol

Skull and crossbones



Hazard category Signal word Hazard statement

Danger H300 Fatal if swallowed

2	Danger	I	H300	Fatal if swallowed

Precautionary statements				
Prevention	Response	Storage	Disposal	
P264 Washthoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product.	P301 + P310  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  P321  Specific treatment (see on this label)  Reference to supplemental first aid instruction.  - if immediate administration of antidote is required.  P330  Rinse mouth.	P405 Store locked up.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).	

#### **ACUTE TOXICITY - ORAL (CHAPTER 3.1)**

Symbol

Skull and crossbones

**Hazard category** Signal word **Hazard statement** 

3 Danger H301 Toxic if swallowed



	Precautionary statements					
	Prevention	Response	Storage	Disposal		
326	Wash thoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.  P270  Do not eat, drink or smoke when using this product.	P301 + P310  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  P321  Specific treatment (see on this label)  Reference to supplemental first aid instruction.  - if immediate administration of antidote is required.  P330  Rinse mouth.	P405 Store locked up.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).		

### ACUTE TOXICITY - ORAL (CHAPTER 3.1)

Symbol

Exclamation mark

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Hazard category Signal word Hazard statement

4 Warning H302 Harmful if swallowed

Precautionary statements					
Prevention	Response	Storage	Disposal		
P264 Wash thoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product.	P301 + P312  IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  P330  Rinse mouth.		P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).		

### ACUTE TOXICITY - ORAL (CHAPTER 3.1)

Symbol		
No symbo	l	

Hazard category Signal word Hazard statement

5 Warning H303 May be harmful if swallowed

Precautionary statements				
Prevention Response Storage Disposal				
	P312 Call a POISON CENTER/doctor/physician if you feel unwell.			

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### ACUTE TOXICITY - DERMAL (CHAPTER 3.1)

Symbol

Skull and crossbones



Hazard categorySignal wordHazard statement1DangerH310Fatal in contact with skin2DangerH310Fatal in contact with skin

Precautionary statements			
Prevention	Response	Storage	Disposal
P262 Do not get in eyes, on skin, or on clothing. P264 Wash thoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing. Manufacturer/supplier or the competent authority to specify type of equipment.	P302 + P350  IF ON SKIN: Gently wash with plenty of soap and water.  P310  Immediately call a POISON CENTRE or doctor/physician.  P322  Specific measures (see on this label)  Reference to supplemental first aid instruction.  - if immediate measures such as specific cleansing agent is advised.  P361  Remove/Take off immediately all contaminated clothing.  P363  Wash contaminated clothing before reuse.	P405 Store locked up.	Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

### ACUTE TOXICITY - DERMAL (CHAPTER 3.1)

**Symbol**Skull and crossbones

Hazard category Signal word Hazard statement

Danger H311 Toxic in contact with skin



Precautionary statements					
Prevention Response Storage Disposal					
P280 Wear protective gloves/protective clothing. Manufacturer/supplier or the competent authority to specify type of equipment.	P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P312  Call a POISON CENTRE or doctor/physician if you feel unwell.  P322  Specific measures (see on this label)  Reference to supplemental first aid instruction.  - if measures such as specific cleansing agent is advised.  P361  Remove/Take off immediately all contaminated clothing.  P363  Wash contaminated clothing before reuse.	P405 Store locked up.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).		

### ACUTE TOXICITY - DERMAL (CHAPTER 3.1)

Symbol

Exclamation mark

**Hazard category** 

Signal word

**Hazard statement** 

4

Warning

H312 Harmful in contact with skin



Precautionary statements			
Prevention	Response	Storage	Disposal
Wear protective gloves/protective clothing Manufacturer/supplier or the competent authority to specify type of equipment.	P302 + P352  IF ON SKIN: Wash with plenty of soap and water.  P312  Call a POISON CENTER or doctor/physician if you feel unwell.  P322  Specific measures (see on this label)  Reference to supplemental first aid instruction.  - if measures such as specific cleansing agent is advised.  P363  Wash contaminated clothing before reuse.		Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

### ACUTE TOXICITY - DERMAL (CHAPTER 3.1)

Symbol		
No symbol		

Hazard category Signal word Hazard statement

Warning H313 May be harmful in contact with skin

Precautionary statements			
Prevention Response Storage Disposal			
	P312 Call a POISON CENTER or doctor/physician if you feel unwell.		

## ACUTE TOXICITY - INHALATION (CHAPTER 3.1)

Symbol

Skull and crossbones



Hazard category	Signal word	Hazard	statement
1	Danger	H330	Fatal if inhaled

2	Danger	H330	Fatal if inhaled

Precautionary statements			
Prevention	Response	Storage	Disposal
P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P271 Use only outdoors or in a well-ventilated area. P284 Wear respiratory protection. Manufacturer/supplier or the competent authority to specify equipment.	P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P310  Immediately call a POISON CENTER or doctor/physician.  P320  Specific treatment is urgent (see on this label)  Reference to supplemental first aid instruction.  - if immediate administration of antidote is required.	P403 + P233 Store in a well-ventilated place. Keep container tightly closed if product is volatile as to generate hazardous atmosphere. P405 Store locked up.	Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

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3

### ACUTE TOXICITY - INHALATION (CHAPTER 3.1)

**Hazard statement** 

**Symbol**Skull and crossbones

Hazard category Signal word

Danger H331 Toxic if inhaled



Precautionary statements			
Prevention	Response	Storage	Disposal
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P271 Use only outdoors or in a well-ventilated area.	P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P311  Call a POISON CENTER or doctor/physician.  P321  Specific treatment (see on this label)  Reference to supplemental first aid instruction.  - if immediate specific measures are required.	P403 + P233 Store in a well-ventilated place. Keep container tightly closed if product is volatile so as to generate hazardous atmosphere. P405 Store locked up.	P501  Dispose of content/container to in accordance with local/regional/national/international regulations (to be specified).

### ACUTE TOXICITY - INHALATION (CHAPTER 3.1)

**Symbol** Exclamation mark

Hazard category Signal word Hazard statement

4 Warning H332 Harmful if inhaled



Precautionary statements			
Prevention	Response	Storage	Disposal
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P271 Use only outdoors or in a well-ventilated area.	P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P312  Call a POISON CENTER or doctor/physician if you feel unwell.		

## ACUTE TOXICITY - INHALATION (CHAPTER 3.1)

Symbol		
No symbol		

Hazard category Signal word Hazard statement

5 Warning H333 May be harmful if inhaled

Precautionary statements			
Prevention	Response	Storage	Disposal
	P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.		

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#### SKIN CORROSION/IRRITATION (CHAPTER 3.2)

**Symbol** Corrosion

Hazard category Signal word Hazard statement

1A to 1C Danger H314 Causes severe skin burns and eye damage



	Precautionary statements				
Prevention	Response	Storage	Disposal		
P260 Do not breathe dusts or mists if inhalable particles of dusts or mists may occur during use. P264 Washthoroughly after handlingManufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P301 + P330 + P331  IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  P303 + P361 + P353  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  P363  Wash contaminated clothing before reuse.  P304 + P340  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P310  Immediately call a POISON CENTER or doctor/physician.  P321  Specific treatment (see on this label)  Reference to supplemental first aid instruction.  - Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.  P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P405 Store locked up.	P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).		

### SKIN CORROSION/IRRITATION (CHAPTER 3.2)

**Symbol** Exclamation mark

Hazard category Signal word Hazard statement

Warning H315 Causes skin irritation



Precautionary statements			
Prevention	Response	Storage	Disposal
P264 Wash thoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P280 Wear protective gloves. Manufacturer/supplier or the competent authority to specify type of equipment.	P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P321 Specific treatment (see on this label) Reference to supplemental first aid instruction Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.		

### SKIN CORROSION/IRRITATION (CHAPTER 3.2)

Symbol		
No symbol		

Hazard category Signal word Hazard statement

Warning H316 Causes mild skin irritation

Precautionary statements				
Prevention Response Storage Disposal				
	P332 + P313 If skin irritation occurs: Get medical advice/attention.			

### EYE DAMAGE/IRRITATION (CHAPTER 3.3)

**Symbol** Corrosion

Hazard category Signal word Hazard statement

Danger H318 Causes serious eye damage



Precautionary statements						
Prevention Response Storage Disposal						
P280 Wear eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  Continue rinsing.					
	P310 Immediately call a POISON CENTER or doctor/physician.					

### EYE DAMAGE/IRRITATION (CHAPTER 3.3)

Symbol

Exclamation mark

Hazard category Signal word Hazard statement

2A Warning H319 Causes serious eye irritation



Precautionary statements				
Prevention	Response	Storage	Disposal	
P264 Wash thoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.	P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  Continue rinsing.			
P280 Wear eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.	P337 + P313  If eye irritation persists: Get medical advice/attention.			

### EYE DAMAGE/IRRITATION (CHAPTER 3.3)

Symbol		
No	symbol	

Hazard category Signal word Hazard statement

2B Warning H320 Causes eye irritation

Precautionary statements				
Prevention	Storage	Disposal		
P264 Wash thoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.	P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P337 + P313  If eye irritation persists: Get medical advice/attention.			

### SENSITIZATION - RESPIRATORY (CHAPTER 3.4)

Symbol
Health hazard

Hazard category Signal word Hazard statement

1, 1A, 1B Danger H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled



Precautionary statements				
Prevention	Response	Storage	Disposal	
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions.	P304 + P341  F INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.		P501 <b>Dispose of contents/container to</b> in accordance with local/regional/national/international regulations (to be specified).	
P285 In case of inadequate ventilation wear respiratory protection. Manufacturer/supplier or the competent authority to specify equipment	P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.			

# SENSITIZATION - SKIN (CHAPTER 3.4)

Symbol

Exclamation mark

Hazard category

Signal word

**Hazard statement** 

1, 1A, 1B

Warning

H317 May cause an allergic skin reaction



Precautionary statements							
Prevention	Prevention Response Sto						
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. Manufacturer/supplier or the competent authority to specify type of equipment.	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  P321 Specific treatment (see on this label) Reference to supplemental first aid instruction.  - Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.  P363 Wash contaminated clothing before reuse.		P501  Dispose of contents/container to  in accordance with local/regional/national/international regulations (to be specified).				

### GERM CELL MUTAGENICITY (CHAPTER 3.5)

**Symbol** Health hazard

Hazard category	Signal word	Hazard statement	
1	Danger	H340 May cause genetic defects <>	
2	Warning	H341 Suspected of causing genetic defects <>	
		<> (state route of exposure if it is conclusively proven that no other routes of exposure	

cause the hazard)



	Precautionary state	ements	
Prevention	Response	Storage	Disposal
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required.	P308 + P313  IF exposed or concerned: Get medical advice/attention.	P405 Store locked up.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

#### CARCINOGENICITY (CHAPTER 3.6)

**Symbol** Health hazard

Hazard category Signal word Hazard statement

Danger H350 May cause cancer <...>

2 Warning H351 Suspected of causing cancer <...>

<...> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).



Precautionary statements						
	Prevention	Response	Storage	Disposal		
	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required.	P308 + P313 <b>IF exposed or concerned: Get medical advice/attention.</b>	P405 Store locked up.	P501 <b>Dispose of contents/container to</b> in accordance with local/regional/national/international regulations (to be specified).		

### TOXIC TO REPRODUCTION (CHAPTER 3.7)

**Symbol** Health hazard

Hazard category	Signal word	Hazard statement	
1	Danger	H360	May damage fertility or the unborn child <> <<>>
2	Warning	H361	Suspected of damaging fertility or the unborn child <> <<>>
		<>	(state specific effect if known)
		<<>>	(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



	Precautionary statements						
Prevention	Response	Storage	Disposal				
P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required.	P308 + P313  IF exposed or concerned: Get medical advice/attention.	P405 Store locked up.	P501 <b>Dispose of contents/container to</b> in accordance with local/regional/national/international regulations (to be specified).				

# TOXIC TO REPRODUCTION (CHAPTER 3.7)

(effects on or via lactation)

**Symbol**No symbol

Hazard category Signal word Hazard statement

(additional) No signal word H362 May cause harm to breast-fed children

Precautionary statements						
Prevention	Response	Storage	Disposal			
P201 Obtain special instructions before use. P260 Do not breathe dusts or mists if inhalable particles of dusts or mists may occur during use.	P308 + P313  IF exposed or concerned: Get medical advice/attention.					
P263 Avoid contact during pregnancy/while nursing.						
P264 Wash thoroughly after handlingManufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.						
P270 Do not eat, drink or smoke when using this product.						

### SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (CHAPTER 3.8)

**Symbol** Health hazard

Hazard category	Signal word	Hazard statement	
1	Danger	H370 Causes damage to organs <> <<>>	
		<> (or state all organs affected if known)	
		<<>> (state route of exposure if it is conclusively proven that no other routes of exposure	



<<...>> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

Precautionary statements						
Prevention	Response	Storage	Disposal			
P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P264 Washthoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product.	P307 + P311  IF exposed: Call a POISON CENTER or doctor/physician.  P321  Specific treatment (see on this label)  Reference to supplemental first aid instruction.  - if immediate measures are required.	P405 Store locked up.	Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).			

#### SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) **(CHAPTER 3.8)**

**Symbol** Health hazard

**Hazard category** Signal word **Hazard statement** 

Warning H371 May cause damage to organs <...> <<...>>

> (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)



Precautionary statements						
Prevention	Response	Storage	Disposal			
P260  Do not breathe dust/fume/gas/mist/ vapours/spray.  Manufacturer/supplier or the competent authority to specify applicable conditions.	P309 + P311  IF exposed or if you feel unwell: Call a  POISON CENTER or doctor/physician.	P405 Store locked up.	P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).			
P264 Wash thoroughly after handling Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.						
P270  Do not eat, drink or smoke when using this product.						

### SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (CHAPTER 3.8)

**Symbol** Exclamation mark

Hazard category Signal word Hazard statement

Warning H335 May cause respiratory irritation; or

H336 May cause drowsiness or dizziness



Precautionary statements					
Prevention	Response	Storage	Disposal		
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P271 Use only outdoors or in a well-ventilated area.	P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell.	P403 + P233 Store in a well-ventilated place. Keep container tightly closed if product is volatile so as to generate hazardous atmosphere. P405 Store locked up.	P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).		

#### SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (CHAPTER 3.9)

**Symbol** Health hazard

Hazard category	Signal word	Hazard statement	
1	Danger	H372 Causes damage to organs <> through prolonged or repeated exposure <<>>	
		<> (state all organs affected, if known)	
		<:>> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	



Precautionary statements					
Prevention	Response	Storage	Disposal		
P260 Do not breathe dust/fume/gas/mist/ vapours/spray.  Manufacturer/supplier or the competent authority to specify applicable conditions.  P264 Wash thoroughly after handlingManufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.  P270 Do not eat, drink or smoke when using this product.	P314 Get medical advice/attention if you feel unwell.		P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).		

### SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (CHAPTER 3.9)

**Symbol** Health hazard

Hazard category	Signal word	Hazard statement	
2	Warning	H373	May cause damage to organs <> through prolonged or repeated exposure <<>>
		<>	(state all organs affected, if known)
		<<>>	(state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)



Precautionary statements					
Prevention	Response	Storage	Disposal		
P260 Do not breathe dust/fume/gas/mist/ vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions.	P314 Get medical advice/attention if you feel unwell.		P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).		

## ASPIRATION HAZARD (CHAPTER 3.10)

**Symbol** Health hazard

Hazard category	Signal word	Hazard statement	
1	Danger	H304	May be fatal if swallowed and enters airways
2	Warning	H305	May be harmful if swallowed and enters airways



Precautionary statements			
Prevention	Response	Storage	Disposal
	P301 + P310  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  P331  Do NOT induce vomiting.	P405 Store locked up.	P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

### HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD (CHAPTER 4.1)

**Symbol** Environment

Hazard category Signal word

**Hazard statement** 

Warning H400 Very toxic to aquatic life



Precautionary statements			
Prevention	Response	Storage	Disposal
P273 Avoid release to the environment if this is not the intended use.	P391 Collect spillage.		P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

### HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD (CHAPTER 4.1)

Symbol

No symbol

Hazard category	Signal word	Hazard statement		
2	No signal word	H401	Toxic to aquatic life	
3	No signal word	H402	Harmful to aquatic life	

Precautionary statements			
Prevention	Response	Storage	Disposal
P273 Avoid release to the environment if this is not the intended use.			P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

### HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD (CHAPTER 4.1)

**Symbol** Environment

Hazard category	Signal word	Hazard statement	
1	Warning	H410	Very toxic to aquatic life with long lasting effects
2	No signal word	H411	Toxic to aquatic life with long lasting effects



Precautionary statements			
Prevention	Response	Storage	Disposal
P273 Avoid release to the environment if this is not the intended use.	P391 Collect spillage.		P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

### HAZARDOUS TO THE AQUATIC ENVIRONMENT - LONG-TERM HAZARD (CHAPTER 4.1)

Symbol		
No symbol		

Hazard category	Signal word	Hazard statement	
3	No signal word	H412 Harmful to aquatic life with long lasting effects	
4	No signal word	H413 May cause long lasting harmful effects to aquatic life	

Precautionary statements			
Prevention	Response	Storage	Disposal
P273 Avoid release to the environment if this is not the intended use.			P501  Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).

### HAZARDOUS TO THE OZONE LAYER (CHAPTER 4.2)

**Symbol** Exclamation mark

Hazard category Signal word Hazard statement

Warning H420 Harms public health and the environment by destroying ozone in the upper atmosphere



Precautionary statements			
Prevention	Response	Storage	Disposal
			P502 Refer to manufacturer/supplier for information on recovery/recycling

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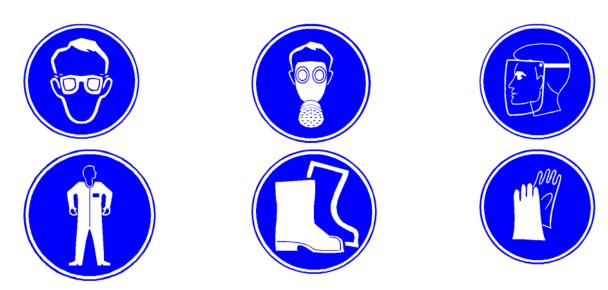
#### Annex 3

#### **Section 4**

#### **EXAMPLES OF PRECAUTIONARY PICTOGRAMS**

#### A3.4.1 Precautionary pictograms

From European Union (Council Directive 92/58/EEC of 24 June 1992)



From South African Bureau of Standards (SABS 0265:1999)

















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