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**COMMITTEE OF EXPERTS ON THE TRANSPORT OF  
DANGEROUS GOODS AND ON THE GLOBALLY  
HARMONIZED SYSTEM OF CLASSIFICATION  
AND LABELLING OF CHEMICALS**

Sub-Committee of Experts on the Globally  
Harmonized System of Classification  
and Labelling of Chemicals

Eleventh session, 12-14 July 2006  
Item 3(c) of the provisional agenda

**HAZARD COMMUNICATION ISSUES**

Codification of hazard and precautionary statements

Transmitted by the representative from the European Chemical Industry Council (CEFIC)  
on behalf of the precautionary statements correspondence working group

Addendum 1

Proposal for the revision of Annex 3 of the GHS.

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## **“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 codes assigned to each of the hazard statements applicable to the hazard categories defined under the GHS.

A3.1.1.3 The hazard statement codes shall only be used for reference purposes and shall neither form part of the hazard statement text that appears on a GHS label, nor 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 is the text that shall appear on the label, except otherwise specified. The text in italics enclosed within brackets provides extra information that can be specified. In such cases, the manufacturer or supplier can choose, or

the competent authorities may prescribe the information.

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.

**Table A3.1.1 Hazard statement codes for physical hazards**

<b>Code (1)</b>	<b>Physical hazard statements (2)</b>	<b>Hazard class (GHS chapter) (3)</b>	<b>Hazard category (4)</b>
H201	<b>Unstable explosive</b>	Explosives (chapter 2.1)	Unstable Explosive
H202	<b>Explosive; mass explosion hazard</b>	Explosives (chapter 2.1)	Division 1.1
H203	<b>Explosive; severe projection hazard</b>	Explosives (chapter 2.1)	Division 1.2
H204	<b>Explosive; fire, blast or projection hazard</b>	Explosives (chapter 2.1)	Division 1.3
H205	<b>Fire or projection hazard</b>	Explosives (chapter 2.1)	Division 1.4
H206	<b>May mass explode in fire</b>	Explosives (chapter 2.1)	Division 1.5
H220	<b>Extremely flammable gas</b>	Flammable gases (chapter 2.2)	1
H221	<b>Flammable gas</b>	Flammable gases (chapter 2.2)	2
H222	<b>Extremely flammable aerosol</b>	Flammable aerosols (chapter 2.3)	1
H223	<b>Flammable aerosol</b>	Flammable aerosols chapter 2.3)	2
H224	<b>Extremely flammable liquid and vapour</b>	Flammable liquids (chapter 2.6)	1
H225	<b>Highly flammable liquid and vapour</b>	Flammable liquids (chapter 2.6)	2
H226	<b>Flammable liquid and vapour</b>	Flammable liquids (chapter 2.6)	3
H227	<b>Combustible liquid</b>	Flammable liquids (chapter 2.6)	4
H228	<b>Flammable solid</b>	Flammable solids (chapter 2.7)	1, 2
H240	<b>Heating may cause an explosion</b>	Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15)	Type A
H241	<b>Heating may cause a fire or explosion</b>	Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15)	Type B

<b>Code (1)</b>	<b>Physical hazard statements (2)</b>	<b>Hazard class (GHS chapter) (3)</b>	<b>Hazard category (4)</b>
H242	<b>Heating may cause a fire</b>	Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15)	Types C, D, E, F
H250	<b>Catches fire spontaneously if exposed to air</b>	Pyrophoric liquids (chapter 2.9); Pyrophoric Solids (chapter 2.10)	1
H251	<b>Self-heating; may catch fire</b>	Self-heating substances and mixtures (chapter 2.11)	1
H252	<b>Self-heating in large quantities; may catch fire</b>	Self-heating substances and mixtures (chapter 2.11)	2
H260	<b>In contact with water releases flammable gases which may ignite spontaneously</b>	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1
H261	<b>In contact with water releases flammable gas</b>	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	2, 3
H270	<b>May cause or intensify fire; oxidizer</b>	Oxidizing gases (chapter 2.4)	1
H271	<b>May cause fire or explosion; strong oxidizer</b>	Oxidizing liquids (chapter 2.13); Oxidizing solids (chapter 2.14)	1
H272	<b>May intensify fire; oxidizer</b>	Oxidizing liquids (chapter 2.13); Oxidizing solids (chapter 2.14)	2, 3
H280	<b>Contains gas under pressure; may explode if heated</b>	Gases under pressure (chapter 2.5)	Compressed gas Liquefied gas Dissolved gas
H281	<b>Contains refrigerated gas; may cause cryogenic burns or injury</b>	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas
H290	<b>May be corrosive to metals</b>	Corrosive to metals (Chapter 2.16)	1

**Table A3.1.2 Hazard statement codes for health hazards**

<b>Code (1)</b>	<b>Health hazard statements (2)</b>	<b>Hazard class (GHS chapter) (3)</b>	<b>Hazard category (4)</b>
H301	<b>Fatal if swallowed</b>	Acute toxicity – oral (chapter 3.1)	1, 2
H302	<b>Toxic if swallowed</b>	Acute toxicity – oral (chapter 3.1)	3
H303	<b>Harmful if swallowed</b>	Acute toxicity – oral (chapter 3.1)	4
H304	<b>May be harmful if swallowed</b>	Acute toxicity – oral (chapter 3.1)	5
H305	<b>May be fatal if swallowed and enters airways</b>	Aspiration hazard (chapter 3.10)	1
H306	<b>May be harmful if swallowed and enters airways</b>	Aspiration hazard (chapter 3.10)	2
<hr/>			
H310	<b>Fatal in contact with skin</b>	Acute toxicity – dermal (chapter 3.1)	1, 2
H311	<b>Toxic in contact with skin</b>	Acute toxicity – dermal (chapter 3.1)	3
H312	<b>Harmful in contact with skin</b>	Acute toxicity – dermal (chapter 3.1)	4
H313	<b>May be harmful in contact with skin</b>	Acute toxicity – dermal (chapter 3.1)	5
H314	<b>Causes severe skin burns and eye damage</b>	Skin corrosion/irritation (chapter 3.2)	1A, 1B, 1C
H315	<b>Causes skin irritation</b>	Skin corrosion/irritation (chapter 3.2)	2
H316	<b>Causes mild skin irritation</b>	Skin corrosion/irritation (chapter 3.2)	3
H317	<b>May cause an allergic skin reaction</b>	Sensitisation – skin (chapter 3.4)	1
H318	<b>Causes serious eye damage</b>	Serious eye damage/eye irritation (chapter 3.3)	1
H319	<b>Causes serious eye irritation</b>	Serious eye damage/eye irritation (chapter 3.3)	2A
H320	<b>Causes eye irritation</b>	Serious eye damage/eye irritation (chapter 3.3)	2B
<hr/>			
H330	<b>Fatal if inhaled</b>	Acute toxicity – inhalation (chapter 3.1)	1, 2
H331	<b>Toxic if inhaled</b>	Acute toxicity – inhalation (chapter 3.1)	3
H332	<b>Harmful if inhaled</b>	Acute toxicity – inhalation (chapter 3.1)	4
H333	<b>May be harmful if inhaled</b>	Acute toxicity – inhalation (chapter 3.1)	5



Code (1)	Health hazard statements (2)	Hazard class (GHS chapter) (3)	Hazard category (4)
H334	<b>May cause allergy or asthma symptoms or breathing difficulties if inhaled</b>	Sensitisation – respiratory (chapter 3.4)	1
H335	<b>May cause respiratory irritation</b>	Specific target organ systemic toxicity – single exposure; Respiratory tract irritation (chapter 3.8);	3
H336	<b>May cause drowsiness or dizziness</b>	Specific target organ systemic toxicity – single exposure; Narcosis (chapter 3.8)	3
H350	<b>May cause genetic defects</b> ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	Germ cell mutagenicity (chapter 3.5)	1A, 1B
H351	<b>Suspected of causing genetic defects</b> ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	Germ cell mutagenicity (chapter 3.5)	2
H352	<b>May cause cancer</b> ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	Carcinogenicity (chapter 3.6)	1A, 1B
H353	<b>Suspected of causing cancer</b> ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	Carcinogenicity (chapter 3.6)	2
H354	<b>May damage fertility or the unborn child</b> ( <i>state specific effect if known (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)</i> )	Reproductive toxicity (chapter 3.7)	1A, 1B
H355	<b>Suspected of damaging fertility or the unborn child</b> ( <i>state specific effect if known</i> )( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	Reproductive toxicity (chapter 3.7)	2
H356	<b>May cause harm to breast-fed children</b>	Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category
H360	<b>Causes damage to organs</b> ( <i>or state all organs affected, if known</i> ) ( <i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i> )	Specific target organ systemic toxicity – single exposure (chapter 3.8)	1

Code (1)	Health hazard statements (2)	Hazard class (GHS chapter) (3)	Hazard category (4)
H361	<b>May cause damage to organs</b> (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 systemic toxicity – single exposure (chapter 3.8)	2
H362	<b>Causes damage to organs</b> (or state all organs affected, if known) <b>through prolonged or repeated exposure</b> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Specific target organ systemic toxicity – repeated exposure (chapter 3.9)	1
H363	<b>May cause damage to organs</b> (or state all organs affected, if known) <b>through prolonged or repeated exposure</b> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)	Specific target organ systemic toxicity – repeated exposure (chapter 3.9)	2

**Table A3.1.3 Hazard statement codes for environmental hazards**

<b>Code (1)</b>	<b>Environmental hazard statements (2)</b>	<b>Hazard class (GHS chapter) (3)</b>	<b>Hazard category (4)</b>
H401	<b>Very toxic to aquatic life</b>	Hazardous to the aquatic environment – acute toxicity (chapter 4.1)	1
H402	<b>Toxic to aquatic life</b>	Hazardous to the aquatic environment – acute toxicity (chapter 4.1)	2
H403	<b>Harmful to aquatic life</b>	Hazardous to the aquatic environment – acute toxicity (chapter 4.1)	3
H410	<b>Very toxic to aquatic life with long lasting effects</b>	Hazardous to the aquatic environment – chronic toxicity (chapter 4.1)	1
H411	<b>Toxic to aquatic life with long lasting effects</b>	Hazardous to the aquatic environment – chronic toxicity (chapter 4.1)	2
H412	<b>Harmful to aquatic life with long lasting effects</b>	Hazardous to the aquatic environment – chronic toxicity (chapter 4.1)	3
H413	<b>May cause long lasting harmful effects to aquatic life</b>	Hazardous to the aquatic environment – chronic toxicity (chapter 4.1)	4

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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 codes assigned to each of the precautionary statement types described in the GHS.

##### A3.2.2 Codification of precautionary statements

A3.2.2.1 Precautionary statements are assigned a unique alphanumeric 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 shall only be used for reference purposes and shall neither form part of the precautionary statement text that appears on a GHS label, nor 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 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. For example in P280 “**Wear protective gloves/protective clothing/eye protection/face protection**”. In such cases, the manufacturer or supplier can choose, or the competent authorities may prescribe the most appropriate phrase(s).

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 be 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**

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

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

<b>Code</b> <b>(1)</b>	<b>Prevention precautionary statements</b> <b>(2)</b>	<b>Hazard class</b> <b>(3)</b>	<b>Hazard category</b> <b>(4)</b>	<b>Conditions for use</b> <b>(5)</b>
P201	<b>Obtain special instructions before use.</b>	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	<b>Do not handle until all safety precautions have been read and understood.</b>	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	<b>Keep away from heat/sparks/open flames/hot surfaces. – No smoking.</b>	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 source(s).	
		Flammable gases (chapter 2.2)	1, 2		
		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		- <i>specify to keep away from flames and hot surfaces.</i>
		Oxidizing liquids (chapter 2.13)	1, 2, 3		- <i>specify to keep away from heat.</i>
		Oxidizing solids (chapter 2.14)	1, 2, 3		
P211	<b>Do not spray on an open flame or other ignition source.</b>	Flammable aerosols (chapter 2.3)	1, 2		
P220	<b>Keep/Store away from clothing/.../combustible materials.</b>	Oxidizing gases (chapter 2.4)	1	... Manufacturer/supplier or the competent authority to specify incompatible materials.	
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F		
		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	... Manufacturer/supplier or the competent authority to specify incompatible materials. - <i>specify to keep away from clothing as well as other incompatible materials.</i>	
		Oxidizing solids (chapter 2.14)	1		

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

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P234	<b>Keep only in original container.</b>	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	
P235	<b>Keep cool.</b>	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	
P240	<b>Ground/bond container and receiving equipment.</b>	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	- <i>if the explosive is electrostatically sensitive.</i>
		Flammable liquids (chapter 2.6)	1, 2, 3	- <i>if electrostatically sensitive material is for reloading.</i> - <i>if product is volatile so as to generate hazardous atmosphere.</i>
		Flammable solids (chapter 2.7)	1, 2	- <i>if electrostatically sensitive material is for reloading.</i>
P241	<b>Use explosion-proof electrical/ventilating/lighting/.../ equipment.</b>	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. - <i>if dust clouds can occur.</i>

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P242	<b>Use only non-sparking tools.</b>	Flammable liquids (chapter 2.6)	1, 2, 3	
P243	<b>Take precautionary measures against static discharge.</b>	Flammable liquids (chapter 2.6)	1, 2, 3	
P244	<b>Keep reduction valves free from grease and oil.</b>	Oxidizing gases (chapter 2.4)	1	
P250	<b>Do not subject to grinding/shock/.../friction.</b>	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.
P251	<b>Pressurized container: Do not pierce or burn, even after use.</b>	Flammable aerosols (chapter 2.3)	1, 2	
P260	<b>Do not breathe dust/fume/gas/mist/vapours/spray.</b>	Acute toxicity – inhalation (chapter 3.1)	1, 2	Manufacturer/supplier or the competent authority to specify applicable conditions.
		Specific target organ systemic toxicity – single exposure (chapter 3.8)	1, 2	
		Specific target organ systemic toxicity – prolonged or repeated exposure (chapter 3.9)	1, 2	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	- <i>if inhalable particles of dusts or mists may occur during use.</i>
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	
P261	<b>Avoid breathing dust/fume/gas/mist/vapours/spray.</b>	Acute toxicity – inhalation (chapter 3.1)	3, 4	Manufacturer/supplier or the competent authority to specify applicable conditions.
		Respiratory sensitization (chapter 3.4)	1	
		Skin sensitization (chapter 3.4)	1	
		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
P262	<b>Do not get in eyes, on skin, or on clothing.</b>	Acute toxicity – dermal (chapter 3.1)	1, 2	

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P263	<b>Avoid contact during pregnancy/while nursing.</b>	Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	
P264	<b>Wash ... thoroughly after handling.</b>	Acute toxicity – oral (chapter 3.1)	1, 2, 3, 4	... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.
		Acute toxicity – dermal (chapter 3.1)	1, 2	
		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	
		Specific target organ systemic toxicity – single exposure (chapter 3.8)	1, 2	
		Specific target organ systemic toxicity – prolonged or repeated exposure (chapter 3.9)	1	
P270	<b>Do not eat, drink or smoke when using this product.</b>	Acute toxicity – oral (chapter 3.1)	1, 2, 3, 4	
		Acute toxicity – dermal (chapter 3.1)	1, 2	
		Reproductive toxicity – effects on or via lactation (chapter 3.7)	Additional category	
		Specific target organ systemic toxicity – single exposure (chapter 3.8)	1, 2	
		Specific target organ systemic toxicity – prolonged or repeated exposure (chapter 3.9)	1	
P271	<b>Use only outdoors or in a well-ventilated area.</b>	Acute toxicity – inhalation (chapter 3.1)	1, 2, 3, 4	
		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
P272	<b>Contaminated work clothing should not be allowed out of the workplace.</b>	Skin sensitization (chapter 3.4)	1	

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P273	<b>Avoid release to the environment.</b>	Hazardous to the aquatic environment – acute toxicity (chapter 4.1)	1, 2, 3	- <i>if this is not the intended use.</i>
		Hazardous to the aquatic environment – chronic toxicity (chapter 4.1)	1, 2, 3, 4	
P280	<b>Wear protective gloves/protective clothing/eye protection/face protection.</b>	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	Manufacturer/supplier or the competent authority to specify type of equipment. - <i>Specify face protection.</i>
		Flammable liquids (chapter 2.6)	1, 2, 3, 4	Manufacturer/supplier or the competent authority to specify type of equipment. - <i>Specify protective gloves and eye/face protection.</i>
		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	
		Self-heating substances and mixtures (chapter 2.11)	1, 2	
		Substances and mixtures which, in contact with water, emit flammable gases (chap. 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	Manufacturer/supplier or the competent authority to specify type of equipment. - <i>Specify protective gloves/clothing.</i>
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	Manufacturer/supplier or the competent authority to specify type of equipment. - <i>Specify protective gloves/clothing and eye/face protection.</i>

Code	Prevention precautionary statements	Hazard class	Hazard category	Conditions for use
(1)	(2)	(3)	(4)	(5)
P280 <i>cont'd</i>	<i>Wear protective gloves/protective clothing/eye protection/face protection. (cont'd)</i>	Skin irritation (chapter 3.2)	2	Manufacturer/supplier or the competent authority to specify type of equipment. - <i>Specify protective gloves.</i>
		Skin sensitization (chapter 3.4)	1	
		Severe eye damage (chapter 3.3)	1	Manufacturer/supplier or the competent authority to specify type of equipment. - <i>Specify eye/face protection.</i>
		Eye irritation (chapter 3.3)	2A	
P281	<b>Use personal protective equipment as required.</b>	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	<b>Wear cold insulating gloves/face shield/eye protection.</b>	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas	
P283	<b>Wear fire/flamm resistant/retardant clothing.</b>	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P284	<b>Wear respiratory protection.</b>	Acute toxicity – inhalation (chapter 3.1)	1, 2	Manufacturer/supplier or the competent authority to specify equipment.
P285	<b>In case of inadequate ventilation wear respiratory protection.</b>	Respiratory sensitization (chapter 3.4)	1	Manufacturer/supplier or the competent authority to specify equipment.
P231 + P232	<b>Handle under inert gas. Protect from moisture.</b>	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
P235 + P410	<b>Keep cool. Protect from sunlight.</b>	Self-heating substances and mixtures (chapter 2.11)	1, 2	

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

<b>Code (1)</b>	<b>Response precautionary statements (2)</b>	<b>Hazard class (3)</b>	<b>Hazard category (4)</b>	<b>Conditions for use (5)</b>
P301	<b>IF SWALLOWED:</b>	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	<b>IF ON SKIN:</b>	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	
P303	<b>IF ON SKIN (or hair):</b>	Flammable liquids (chapter 2.6)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P304	<b>IF INHALED:</b>	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	
		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
P305	<b>IF IN EYES:</b>	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Severe eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2A, 2B	
P306	<b>IF ON CLOTHING:</b>	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P307	<b>IF exposed:</b>	Specific target organ systemic toxicity – single exposure (chapter 3.8)	1	
P308	<b>IF exposed or concerned:</b>	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	



<b>Code (1)</b>	<b>Response precautionary statements (2)</b>	<b>Hazard class (3)</b>	<b>Hazard category (4)</b>	<b>Conditions for use (5)</b>
P309	<b>IF exposed or if you feel unwell:</b>	Specific target organ systemic toxicity – single exposure (chapter 3.8)	2	
P310	<b>Immediately call a POISON CENTER or doctor/physician.</b>	Acute toxicity – oral (chapter 3.1)	1, 2, 3	
		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	<b>Call a POISON CENTER or doctor/physician.</b>	Acute toxicity – inhalation (chapter 3.1)	3	
		Respiratory sensitization (chapter 3.4)	1	
		Specific target organ systemic toxicity – single exposure (chapter 3.8)	1, 2	
P312	<b>Call a POISON CENTER or doctor/physician if you feel unwell.</b>	Acute toxicity – oral (chapter 3.1)	4	
		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 systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
P313	<b>Get medical advice/attention.</b>	Skin irritation (chapter 3.2)	2, 3	
		Eye irritation (chapter 3.3)	2A, 2B	
		Skin sensitization (chapter 3.4)	1	
		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 (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P314	<b>Get medical advice/attention if you feel unwell.</b>	Specific target organ systemic toxicity – prolonged or repeated exposure (chapter 3.9)	1, 2	
P315	<b>Get immediate medical advice/attention.</b>	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas	
P320	<b>Specific treatment is urgent (see ... on this label).</b>	Acute toxicity – inhalation (chapter 3.1)	1, 2	... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i>
P321	<b>Specific treatment (see ... on this label).</b>	Acute toxicity – oral (chapter 3.1)	1, 2, 3	... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i>
		Acute toxicity – inhalation (chapter 3.1)	3	... Reference to supplemental first aid instruction. - <i>if immediate specific measures are required.</i>
		Specific target organ systemic toxicity – single exposure (chapter 3.8)	1	... Reference to supplemental first aid instruction. - <i>if immediate measures are required.</i>
		Skin sensitization (chapter 3.4)	1	... Reference to supplemental first aid instruction.
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	- <i>manufacturer/supplier or competent authority may specify a cleansing agent if appropriate.</i>
		Skin irritation (chapter 3.2)	2	
P322	<b>Specific measures (see ... on this label).</b>	Acute toxicity – dermal (chapter 3.1)	1, 2	... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i>
		Acute toxicity – dermal (chapter 3.1)	3, 4	... Reference to supplemental first aid instruction. - <i>if measures such as specific cleansing agent is advised.</i>

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P330	<b>Rinse mouth.</b>	Acute toxicity – oral (chapter 3.1)	1, 2, 3, 4	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P331	<b>Do NOT induce vomiting.</b>	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Aspiration hazard (chapter 3.10)	1, 2	
P332	<b>If skin irritation occurs:</b>	Skin irritation (chapter 3.2)	2, 3	
P333	<b>If skin irritation or rash occurs:</b>	Skin sensitization (chapter 3.4)	1	
P334	<b>Immerse in cool water/wrap in wet bandages.</b>	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	<b>Brush off loose particles from skin.</b>	Pyrophoric solids (chapter 2.10)	1	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	
P336	<b>Thaw frosted parts with lukewarm water. Do not rub affected area.</b>	Gases under pressure (chapter 2.5)	Refrigerated liquefied gas	
P337	<b>If eye irritation persists:</b>	Eye irritation (chapter 3.3)	2A, 2B	
P338	<b>Remove contact lenses, if present and easy to do. Continue rinsing.</b>	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Severe eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2A, 2B	
P340	<b>Remove to fresh air and keep at rest in a position comfortable for breathing.</b>	Acute toxicity – inhalation (chapter 3.1)	1, 2, 3, 4	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
P341	<b>If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.</b>	Respiratory sensitization (chapter 3.4)	1	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P342	<b>If experiencing respiratory symptoms:</b>	Respiratory sensitization (chapter 3.4)	1	
P350	<b>Gently wash with plenty of soap and water.</b>	Acute toxicity – dermal (chapter 3.1)	1, 2	
P351	<b>Rinse cautiously with water for several minutes.</b>	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Severe eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2A, 2B	
P352	<b>Wash with plenty of soap and water.</b>	Acute toxicity – dermal (chapter 3.1)	3, 4	
		Skin irritation (chapter 3.2)	2	
		Skin sensitization (chapter 3.4)	1	
P353	<b>Rinse skin with water/shower.</b>	Flammable liquids (chapter 2.6)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P360	<b>Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</b>	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P361	<b>Remove/Take off immediately all contaminated clothing.</b>	Flammable liquids (chapter 2.6)	1, 2, 3	
		Acute toxicity – dermal (chapter 3.1)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P362	<b>Take off contaminated clothing and wash before re-use.</b>	Skin irritation (chapter 3.2)	2	
P363	<b>Wash contaminated clothing before reuse.</b>	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	
P370	<b>In case of fire:</b>	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 (chapter 2.8)	Types A, B, C, D, E, F	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P370 (cont'd)		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	
P371	<b>In case of major fire and large quantities:</b>	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P372	<b>Explosion risk in case of fire.</b>	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5	- <i>except if explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.</i>
P373	<b>DO NOT fight fire when fire reaches explosives.</b>	Explosives (chapter 2.1)	Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5	
P374	<b>Fight fire with normal precautions from a reasonable distance.</b>	Explosives (chapter 2.1)	Division 1.4S	- <i>if explosives are 1.4S AMMUNITION AND COMPONENTS THEREOF.</i>
P375	<b>Fight fire remotely due to the risk of explosion.</b>	Self-reactive substances and mixtures (chapter 2.8)	Types A, B	
		Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P376	<b>Stop leak if safe to do so.</b>	Oxidizing gases (chapter 2.4)	1	
P377	<b>Leaking gas fire: Do not extinguish, unless leak can be stopped safely.</b>	Flammable gases (chapter 2.2)	1, 2	
P378	<b>Use ... for extinction.</b>	Flammable liquids (chapter 2.6)	1, 2, 3, 4	... Manufacturer/supplier or the competent authority to specify appropriate media - <i>if water increases risk.</i>
		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	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P378 (cont'd)		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	
P380	<b>Evacuate area.</b>	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	<b>Eliminate all ignition sources if safe to do so.</b>	Flammable gases (chapter 2.2)	1, 2	
P390	<b>Absorb spillage to prevent material damage.</b>	Substances and mixtures Corrosive to metals (chapter 2.16)	1	
P391	<b>Collect spillage.</b>	Hazardous to the aquatic environment – acute toxicity (chapter 4.1)	1	
		Hazardous to the aquatic environment – chronic toxicity (chapter 4.1)	1, 2	
P301 + P310	<b>IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</b>	Acute toxicity – oral (chapter 3.1)	1, 2, 3	
		Aspiration hazard (chapter 3.10)	1, 2	
P301 + P312	<b>IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</b>	Acute toxicity – oral (chapter 3.1)	4	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P301 + P330 + P331	<b>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</b>	Skin Corrosion (chapter 3.2)	1A, 1B, 1C	
P302 + P334	<b>IF ON SKIN: Immerse in cool water/wrap in wet bandages.</b>	Pyrophoric liquids (chapter 2.9)	1	
P302 + P350	<b>IF ON SKIN: Gently wash with plenty of soap and water.</b>	Acute toxicity – dermal (chapter 3.1)	1, 2	
P302 + P352	<b>IF ON SKIN: Wash with plenty of soap and water.</b>	Acute toxicity – dermal (chapter 3.1)	3, 4	
		Skin irritation (chapter 3.2)	2	
		Skin sensitization (chapter 3.4)	1	
P303 + P361 + P353	<b>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</b>	Flammable liquids (chapter 2.6)	1, 2, 3	
		Skin corrosion (chapter 3.2)	1A, 1B, 1C	
P304 + P312	<b>IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.</b>	Acute toxicity – inhalation (chapter 3.1)	5	
P304 + P340	<b>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</b>	Acute toxicity – inhalation (chapter 3.1)	1, 2, 3, 4	
		Skin Corrosion (chapter 3.2)	1A, 1B, 1C	
		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
P304 + P341	<b>IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.</b>	Respiratory sensitization (chapter 3.4)	1	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P305 + P351 + P338	<b>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</b>	Skin corrosion (chapter 3.2)	1A, 1B, 1C	
		Severe eye damage (chapter 3.3)	1	
		Eye irritation (chapter 3.3)	2A, 2B	
P306 + P360	<b>IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.</b>	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	
P307 + P311	<b>IF exposed: Call a POISON CENTER or doctor/physician.</b>	Specific target organ systemic toxicity – single exposure (chapter 3.8)	1	
P308 + P313	<b>IF exposed or concerned: Get medical advice/ attention.</b>	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	
P309 + P311	<b>IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.</b>	Specific target organ systemic toxicity – single exposure (chapter 3.8)	2	
P332 + P313	<b>If skin irritation occurs: Get medical advice/ attention.</b>	Skin irritation (chapter 3.2)	2, 3	
P333 + P313	<b>If skin irritation or rash occurs: Get medical advice/attention.</b>	Skin sensitization (chapter 3.4)	1	
P335 + P334	<b>Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.</b>	Pyrophoric solids (chapter 2.10)	1	
		Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2	



Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P337 + P313	<b>If eye irritation persists: Get medical advice/attention.</b>	Eye irritation (chapter 3.3)	2A, 2B	
P342 + P311	<b>If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.</b>	Respiratory sensitization (chapter 3.4)	1	
P370 + P376	<b>In case of fire: Stop leak if safe to do so.</b>	Oxidizing gases (chapter 2.4)	1	
P370 + P378	<b>In case of fire: Use ... for extinction.</b>	Flammable liquids (chapter 2.6)	1, 2, 3, 4	... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i>
		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	
		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	<b>In case of fire: Evacuate area.</b>	Explosives (chapter 2.1)	Divisions 1.1, 1.2, 1.3, 1.4, 1.5	
P370 + P380 + P375	<b>In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.</b>	Self-reactive substances and mixtures (chapter 2.8)	Types A, B	

Code (1)	Response precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P371 + P380 + P375	<b>In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.</b>	Oxidizing liquids (chapter 2.13)	1	
		Oxidizing solids (chapter 2.14)	1	

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

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)	
P401	<b>Store ... .</b>	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	<b>Store in a dry place.</b>	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3		
P403	<b>Store in a well-ventilated place.</b>	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				

<b>Code (1)</b>	<b>Storage precautionary statements (2)</b>	<b>Hazard class (3)</b>	<b>Hazard category (4)</b>	<b>Conditions for use (5)</b>
P403 <i>cont'd</i>		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	- <i>if product is volatile so as to generate hazardous atmosphere.</i>
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
P404	<b>Store in a closed container.</b>	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
P405	<b>Store locked up.</b>	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 systemic toxicity – single exposure (chapter 3.8)	1, 2	
		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
	Aspiration hazard (chapter 3.10)	1, 2		
P406	<b>Store in corrosive resistant/... container with a resistant inner liner.</b>	Substances and mixtures corrosive to metals (chapter 2.16)	1	... Manufacturer/supplier or the competent authority to specify other compatible materials.
P407	<b>Maintain air gap between stacks/pallets.</b>	Self-heating substances and mixtures (chapter 2.11)	1, 2	

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P410	<b>Protect from sunlight.</b>	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			
P411	<b>Store at temperatures not exceeding ...°C/...°F.</b>	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	<b>Do not expose to temperatures exceeding 50 °C/ 122 °F.</b>	Flammable aerosols (chapter 2.3)	1, 2	
P413	<b>Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ...°C/...°F.</b>	Self-heating substances and mixtures (chapter 2.11)	1, 2	... Manufacturer/supplier or the competent authority to specify mass and temperature.
P420	<b>Store away from other materials.</b>	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	<b>Store contents under ... .</b>	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	

Code (1)	Storage precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P402 + P404	<b>Store in a dry place. Store in a closed container.</b>	Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12)	1, 2, 3	
P403 + P233	<b>Store in a well-ventilated place. Keep container tightly closed.</b>	Acute toxicity – inhalation (chapter 3.1)	1, 2, 3	- <i>if product is volatile so as to generate hazardous atmosphere.</i>
		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
P403 + P235	<b>Store in a well-ventilated place. Keep cool.</b>	Flammable liquids (chapter 2.6)	1, 2, 3, 4	
		Self-reactive substances and mixtures (chapter 2.8)	Types A, B, C, D, E, F	
P410 + P403	<b>Protect from sunlight. Store in a well-ventilated place.</b>	Gases under pressure (chapter 2.5)	Compressed gas	
			Liquefied gas	
			Dissolved gas	
P410 + P412	<b>Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.</b>	Flammable aerosols (chapter 2.3)	1, 2	
P411 + P235	<b>Store at temperatures not exceeding ...°C/...°F. Keep cool.</b>	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 (1)	Disposal precautionary statements (2)	Hazard class (3)	Hazard category (4)	Conditions for use (5)
P501	<b>Dispose of contents/container to ...</b>	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	
		Skin sensitization (chapter 3.4)	1	
		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 systemic toxicity – single exposure (chapter 3.8)	1, 2			

<b>Code (1)</b>	<b>Disposal precautionary statements (2)</b>	<b>Hazard class (3)</b>	<b>Hazard category (4)</b>	<b>Conditions for use (5)</b>
<i>P501</i> <i>(cont'd)</i>		Specific target organ systemic toxicity – single exposure; respiratory tract irritation (chapter 3.8)	3	
		Specific target organ systemic toxicity – single exposure; narcosis (chapter 3.8)	3	
		Specific target organ systemic toxicity – prolonged or repeated exposure (chapter 3.9)	1, 2	
		Aspiration hazard (chapter 3.10)	1, 2	
		Hazardous to the aquatic environment – acute toxicity (chapter 4.1)	1, 2, 3	
		Hazardous to the aquatic environment – chronic toxicity (chapter 4.1)	1, 2, 3, 4	

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## 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 U.S. Environmental Protection Agency Pesticide Label Review Manual.

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 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.

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, paragraph 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	<b>P102</b> <b>P103</b> <b>P101</b>	<b>Keep out of reach of children.</b> <b>Read label before use.</b> <b>If medical advice is needed: Have product container or label at hand.</b>
Industrial worker	GHS label, Supplemental label information, Safety Data Sheet, workplace Instructions		<i>none of the above</i>

### 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. Derogations from the recommended labelling statements are at the discretion of competent authorities.

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 has 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)**

<b>Symbol</b> Exploding bomb
---------------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Unstable Explosive	Danger	Unstable Explosive <b>H201</b>

<b>Precautionary statements</b>			
<b>Prevention</b>	<b>Response</b>	<b>Storage</b>	<b>Disposal</b>
<b>P201</b> Obtain special instructions before use.  <b>P202</b> Do not handle until all safety precautions have been read and understood.  <b>P281</b> Use personal protective equipment as required.	<b>P372</b> Explosion risk in case of fire.  <b>P373</b> DO NOT fight fire when fire reaches explosives.  <b>P380</b> Evacuate area.	<b>P401</b> Store ... ... in accordance with local/regional/national/international regulations (to be specified).	<b>P501</b> Dispose of contents/container to ... ... in accordance with local/regional/national/international regulations (to be specified).

## EXPLOSIVES (CHAPTER 2.1)

<b>Symbol</b> Exploding bomb
---------------------------------



Hazard category	Signal word	Hazard statement
Division 1.1	Danger	Explosive; mass explosion hazard <b>H202</b>
Division 1.2	Danger	Explosive; severe projection hazard <b>H203</b>
Division 1.3	Danger	Explosive; fire, blast or projection hazard <b>H204</b>

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

**EXPLOSIVES  
(CHAPTER 2.1)**

<b>Symbol</b> Exploding bomb
---------------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Division 1.4	Warning	Fire or projection hazard <b>H205</b>

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>P210</b> <b>Keep away from heat/sparks/open flames/hot surfaces. – No smoking.</b> ... Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p><b>P240</b> <b>Ground/bond container and receiving equipment.</b> - <i>if the explosive is electrostatically sensitive.</i></p> <p><b>P250</b> <b>Do not subject to grinding/shock/.../friction.</b> Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <p><b>P280</b> <b>Wear face protection.</b> Manufacturer/supplier or the competent authority to specify equipment.</p>	<p><b>P370 + P380</b> In case of fire: Evacuate area.</p> <p><b>P372</b> <b>Explosion risk in case of fire.</b> - <i>except if explosives are 1.4S</i> <i>AMMUNITION AND</i> <i>COMPONENTS THEREOF.</i></p> <p><b>P373</b> <b>DO NOT fight fire when fire reaches explosives.</b></p> <p><b>P374</b> <b>Fight fire with normal precautions from a reasonable distance.</b> - <i>if explosives are 1.4S</i> <i>AMMUNITION AND</i> <i>COMPONENTS THEREOF.</i></p>	<p><b>P401</b> <b>Store ...</b> ... in accordance with local/regional/national/international regulations (to be specified).</p>	<p><b>P501</b> <b>Dispose of contents/container to ...</b> ... in accordance with local/regional/national/international regulations (to be specified).</p>

**EXPLOSIVES  
(CHAPTER 2.1)**

<p><b>Symbol</b> <i>No symbol</i></p>
---

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Division 1.5	Danger	May mass explode in fire <b>H206</b>

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

**FLAMMABLE GASES  
(CHAPTER 2.2)**

<b>Symbol</b> Flame
------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	Extremely flammable gas <b>H220</b>

<b>Precautionary statements</b>			
<b>Prevention</b>	<b>Response</b>	<b>Storage</b>	<b>Disposal</b>
<b>P210</b> <b>Keep away from heat/sparks/open flames/hot surfaces. – No smoking.</b> ... Manufacturer/supplier or the competent authority to specify applicable ignition source(s).	<b>P377</b> <b>Leaking gas fire:</b> <b>Do not extinguish, unless leak can be stopped safely.</b>  <b>P381</b> <b>Eliminate all ignition sources if safe to do so.</b>	<b>P403</b> <b>Store in a well-ventilated place.</b>	



**FLAMMABLE GASES  
(CHAPTER 2.2)**

<b>Symbol</b> <i>No symbol</i>
-----------------------------------

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
2	Warning	Flammable gas <b>H221</b>

<b>Precautionary statements</b>			
<b>Prevention</b>	<b>Response</b>	<b>Storage</b>	<b>Disposal</b>
<b>P210</b> <b>Keep away from heat/sparks/open flames/hot surfaces. – No smoking.</b> ... Manufacturer/supplier or the competent authority to specify applicable ignition source(s).	<b>P377</b> <b>Leaking gas fire:</b> <b>Do not extinguish, unless leak can be stopped safely.</b> <b>P381</b> <b>Eliminate all ignition sources if safe to do so.</b>	<b>P403</b> <b>Store in a well-ventilated place.</b>	

**FLAMMABLE AEROSOLS  
(CHAPTER 2.3)**

<b>Symbol</b> Flame
------------------------



Hazard category	Signal word	Hazard statement
1	Danger	Extremely flammable aerosol <b>H222</b>
2	Warning	Flammable aerosol <b>H223</b>

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>P210</b> Keep away from heat/sparks/open flames/hot surfaces. – No smoking. ... Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p><b>P211</b> Do not spray on an open flame or other ignition source.</p> <p><b>P251</b> Pressurized container: Do not pierce or burn, even after use.</p>		<p><b>P410 + P412</b> Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.</p>	

**OXIDIZING GASES  
(CHAPTER 2.4)**

<b>Symbol</b> Flame over circle
------------------------------------

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	May cause or intensify fire; oxidizer <b>H270</b>



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

**GASES UNDER PRESSURE  
(CHAPTER 2.5)**

<b>Symbol</b> Gas cylinder
-------------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Compressed gas	Warning	Contains gas under pressure; may explode if heated <b>H280</b>
Liquefied gas	Warning	Contains gas under pressure; may explode if heated <b>H280</b>
Dissolved gas	Warning	Contains gas under pressure; may explode if heated <b>H280</b>

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

**GASES UNDER PRESSURE  
(CHAPTER 2.5)**

<b>Symbol</b> Gas cylinder
-------------------------------

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Refrigerated liquefied gas	Warning	Contains refrigerated gas; may cause cryogenic burns or injury <b>H281</b>



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

## FLAMMABLE LIQUIDS (CHAPTER 2.6)

Symbol Flame
-----------------



Hazard category	Signal word	Hazard statement
1	Danger	Extremely flammable liquid and vapour <b>H224</b>
2	Danger	Highly flammable liquid and vapour <b>H225</b>
3	Warning	Flammable liquid and vapour <b>H226</b>

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>P210</b> Keep away from heat/sparks/open flames/hot surfaces. – No smoking. ... Manufacturer/supplier or the competent authority to specify applicable ignition source(s).</p> <p><b>P233</b> Keep container tightly closed.</p> <p><b>P240</b> Ground/bond container and receiving equipment. - if electrostatically sensitive material is for reloading. - if product is volatile so as to generate hazardous atmosphere.</p> <p><b>P241</b> Use explosion-proof electrical/ventilating/lighting/.../equipment. ... Manufacturer/supplier or the competent authority to specify other equipment.</p> <p><b>P242</b> Use only non-sparking tools.</p> <p><b>P243</b> Take precautionary measures against static discharge.</p> <p><b>P280</b> Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify equipment.</p>	<p><b>P303 + P361 + P353</b> IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p><b>P370 + P378</b> In case of fire: Use ... for extinction. ... Manufacturer/supplier or the competent authority to specify appropriate media. - if water increases risk.</p>	<p><b>P403 + P235</b> Store in a well-ventilated place. Keep cool.</p>	<p><b>P501</b> Dispose of contents/container to ... ... in accordance with local/regional/national/international regulations (to be specified).</p>

**FLAMMABLE LIQUIDS  
(CHAPTER 2.6)**

<b>Symbol</b> <i>No symbol</i>
-----------------------------------

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
4	Warning	Combustible liquid <b>H227</b>

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

**FLAMMABLE SOLIDS  
(CHAPTER 2.7)**

<b>Symbol</b> Flame
------------------------



Hazard category	Signal word	Hazard statement
1	Danger	Flammable solid <b>H228</b>
2	Warning	Flammable solid <b>H228</b>

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



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

<b>Symbol</b> Exploding bomb
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Type A	Danger	Heating may cause an explosion <b>H240</b>



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

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

**Symbol**  
Exploding bomb and flame



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
Type B	Danger	Heating may cause a fire or explosion <b>H241</b>

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

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

<b>Symbol</b> Flame
------------------------



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

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

**PYROPHORIC LIQUIDS  
(CHAPTER 2.9)**

<b>Symbol</b> Flame
------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	Catches fire spontaneously if exposed to air <b>H250</b>

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

**PYROPHORIC SOLIDS  
(CHAPTER 2.10)**

<b>Symbol</b> Flame
------------------------

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	Catches fire spontaneously if exposed to air <b>H250</b>



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

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

<b>Symbol</b> Flame
------------------------



Hazard category	Signal word	Hazard statement
1	Danger	Self-heating; may catch fire <b>H251</b>
2	Warning	Self-heating in large quantities; may catch fire <b>H252</b>

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

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

<b>Symbol</b> Flame
------------------------

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



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

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

<b>Symbol</b> Flame
------------------------

**Hazard category**

3

**Signal word**

Warning

**Hazard statement**

In contact with water releases flammable gases **H261**



<b>Precautionary statements</b>			
<b>Prevention</b>	<b>Response</b>	<b>Storage</b>	<b>Disposal</b>
<p><b>P231 + P232</b> Handle under inert gas. Protect from moisture.</p> <p><b>P280</b> Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify equipment.</p>	<p><b>P370 + P378</b> In case of fire: Use ... for extinction. ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i></p>	<p><b>P402 + P404</b> Store in a dry place. Store in a closed container.</p>	<p><b>P501</b> Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).</p>



## OXIDIZING LIQUIDS (CHAPTER 2.13)

<b>Symbol</b> Flame over circle
------------------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	May cause fire or explosion; strong oxidizer <b>H271</b>

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

**OXIDIZING LIQUIDS  
(CHAPTER 2.13)**

<b>Symbol</b> Flame over circle
------------------------------------



Hazard category	Signal word	Hazard statement
2	Danger	May intensify fire; oxidizer <b>H272</b>
3	Warning	May intensify fire; oxidizer <b>H272</b>

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

**OXIDIZING SOLIDS  
(CHAPTER 2.14)**

<b>Symbol</b> Flame over circle
------------------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	May cause fire or explosion; strong oxidizer <b>H271</b>

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

**OXIDIZING SOLIDS  
(CHAPTER 2.14)**

<b>Symbol</b> Flame over circle
------------------------------------



Hazard category	Signal word	Hazard statement
2	Danger	May intensify fire; oxidizer <b>H272</b>
3	Warning	May intensify fire; oxidizer <b>H272</b>

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

**ORGANIC PEROXIDES  
(CHAPTER 2.15)**

<b>Symbol</b> Exploding bomb
---------------------------------

**Hazard category**

Type A

**Signal word**

Danger

**Hazard statement**

Heating may cause an explosion **H240**



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

**ORGANIC PEROXIDES  
(CHAPTER 2.15)**

**Symbol**  
Exploding bomb and flame



**Hazard category**

Type B

**Signal word**

Danger

**Hazard statement**

Heating may cause a fire or explosion **H241**

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

**ORGANIC PEROXIDES  
(CHAPTER 2.15)**

<b>Symbol</b> Flame
------------------------



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

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

**CORROSIVE TO METALS  
(CHAPTER 2.16)**

<b>Symbol</b> Corrosion
----------------------------

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Warning	May be corrosive to metals <b>H290</b>



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



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

<b>Symbol</b> Skull and crossbones
---------------------------------------



Hazard category	Signal word	Hazard statement
1	Danger	Fatal if swallowed <b>H301</b>
2	Danger	Fatal if swallowed <b>H301</b>

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

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

<b>Symbol</b> Skull and crossbones
---------------------------------------

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
3	Danger	Toxic if swallowed <b>H302</b>



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

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

<b>Symbol</b> Exclamation mark
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
4	Warning	Harmful if swallowed <b>H303</b>



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

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

<b>Symbol</b> <i>No symbol</i>
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
5	Warning	May be harmful if swallowed <b>H304</b>

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

**ACUTE TOXICITY - DERMAL  
(CHAPTER 3.1)**

<b>Symbol</b> Skull and crossbones
---------------------------------------



Hazard category	Signal word	Hazard statement
1	Danger	Fatal in contact with skin <b>H310</b>
2	Danger	Fatal in contact with skin <b>H310</b>

Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>P262</b> Do not get in eyes, on skin, or on clothing.</p> <p><b>P264</b> Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p><b>P270</b> Do not eat, drink or smoke when using this product.</p> <p><b>P280</b> Wear protective gloves/protective clothing. Manufacturer/supplier or the competent authority to specify equipment.</p>	<p><b>P302 + P350</b> IF ON SKIN: Gently wash with plenty of soap and water.</p> <p><b>P310</b> Immediately call a POISON CENTER or doctor/physician.</p> <p><b>P322</b> Specific measures (see ... on this label). ... Reference to supplemental first aid instruction. - if immediate measures such as specific cleansing agent is advised.</p> <p><b>P361</b> Remove/Take off immediately all contaminated clothing.</p> <p><b>P363</b> Wash contaminated clothing before reuse.</p>	<p><b>P405</b> Store locked up.</p>	<p><b>P501</b> Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).</p>

**ACUTE TOXICITY - DERMAL  
(CHAPTER 3.1)**

<b>Symbol</b> Skull and crossbones
---------------------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
3	Danger	Toxic in contact with skin <b>H311</b>

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

**ACUTE TOXICITY - DERMAL  
(CHAPTER 3.1)**

<b>Symbol</b> Exclamation mark
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
4	Warning	Harmful in contact with skin <b>H312</b>



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

**ACUTE TOXICITY - DERMAL  
(CHAPTER 3.1)**

<b>Symbol</b> <i>No symbol</i>
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
5	Warning	May be harmful in contact with skin <b>H313</b>

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



**ACUTE TOXICITY - INHALATION  
(CHAPTER 3.1)**

<b>Symbol</b> Skull and crossbones
---------------------------------------

Hazard category	Signal word	Hazard statement
1	Danger	Fatal if inhaled <b>H330</b>
2	Danger	Fatal if inhaled <b>H330</b>



Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>P260</b> <b>Do not breathe dust/fume/gas/mist/vapours/ spray.</b> Manufacturer/supplier or the competent authority to specify applicable conditions.</p> <p><b>P271</b> <b>Use only outdoors or in a well-ventilated area.</b></p> <p><b>P284</b> <b>Wear respiratory protection.</b> Manufacturer/supplier or the competent authority to specify equipment.</p>	<p><b>P304 + P340</b> <b>IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.</b></p> <p><b>P310</b> <b>Immediately call a POISON CENTER or doctor/physician.</b></p> <p><b>P320</b> <b>Specific treatment is urgent (see ... on this label).</b> ... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i></p>	<p><b>P403 + P233</b> <b>Store in a well-ventilated place. Keep container tightly closed.</b> - <i>if product is volatile so as to generate hazardous atmosphere.</i></p> <p><b>P405</b> <b>Store locked up.</b></p>	<p><b>P501</b> <b>Dispose of contents/container to...</b> ... in accordance with local/regional/national/international regulations (to be specified).</p>

**ACUTE TOXICITY - INHALATION  
(CHAPTER 3.1)**

<b>Symbol</b> Skull and crossbones
---------------------------------------



<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
3	Danger	Toxic if inhaled <b>H331</b>

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

**ACUTE TOXICITY - INHALATION  
(CHAPTER 3.1)**

<b>Symbol</b> Exclamation mark
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
4	Warning	Harmful if inhaled <b>H332</b>



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

**ACUTE TOXICITY - INHALATION  
(CHAPTER 3.1)**

<b>Symbol</b> <i>No symbol</i>
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
5	Warning	May be harmful if inhaled <b>H333</b>

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

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

<b>Symbol</b> Corrosion
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**Hazard category**

1A to 1C

**Signal word**

Danger

**Hazard statement**

Causes severe skin burns and eye damage **H314**



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

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

<b>Symbol</b> Exclamation mark
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<b>Hazard category</b> 2	<b>Signal word</b> Warning	<b>Hazard statement</b> Causes skin irritation <b>H315</b>
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Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>P264</b> <b>Wash ... thoroughly after handling.</b> ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p><b>P280</b> <b>Wear protective gloves.</b> Manufacturer/supplier or the competent authority to specify equipment.</p>	<p><b>P302 + P352</b> <b>IF ON SKIN: Wash with plenty of soap and water.</b></p> <p><b>P321</b> <b>Specific treatment (see ... on this label).</b> ... Reference to supplemental first aid instruction. - <i>manufacturer/supplier or competent authority may specify a cleansing agent if appropriate.</i></p> <p><b>P332 + P313</b> <b>If skin irritation occurs: Get medical advice/attention.</b></p> <p><b>P362</b> <b>Take off contaminated clothing and wash before re-use.</b></p>		

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

<b>Symbol</b> <i>No symbol</i>
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
3	Warning	Causes mild skin irritation <b>H316</b>

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

**EYE DAMAGE/IRRITATION  
(CHAPTER 3.3)**

<b>Symbol</b> Corrosion
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	Causes serious eye damage <b>H318</b>

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



**EYE DAMAGE/IRRITATION  
(CHAPTER 3.3)**

<b>Symbol</b> Exclamation mark
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
2A	Warning	Causes serious eye irritation <b>H319</b>

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

**EYE DAMAGE/IRRITATION  
(CHAPTER 3.3)**

<b>Symbol</b> <i>No symbol</i>
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
2B	Warning	Causes eye irritation <b>H320</b>

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

**SENSITIZATION - RESPIRATORY  
(CHAPTER 3.4)**

<b>Symbol</b> Health hazard
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	May cause allergy or asthma symptoms or breathing difficulties if inhaled <b>H334</b>



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

**SENSITIZATION - SKIN  
(CHAPTER 3.4)**

<b>Symbol</b> Exclamation mark
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Warning	May cause an allergic skin reaction <b>H317</b>

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

**GERM CELL MUTAGENICITY  
(CHAPTER 3.5)**

<b>Symbol</b> Health hazard
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	May cause genetic defects <...> <b>H350</b>
2	Warning	Suspected of causing genetic defects <...> <b>H351</b> <...> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard)

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

**CARCINOGENICITY  
(CHAPTER 3.6)**

<b>Symbol</b> Health hazard
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	May cause cancer <...> <b>H352</b>
2	Warning	Suspected of causing cancer <...> <b>H353</b> <...> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).



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

**TOXIC TO REPRODUCTION  
(CHAPTER 3.7)**

<b>Symbol</b> Health hazard
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Hazard category	Signal word	Hazard statement
1	Danger	May damage fertility or the unborn child <...> <<...>> <b>H354</b>
2	Warning	Suspected of damaging fertility or the unborn child <...> <<...>> <b>H355</b> <...> (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
<b>P201</b> Obtain special instructions before use. <b>P202</b> Do not handle until all safety precautions have been read and understood. <b>P281</b> Use personal protective equipment as required.	<b>P308 + P313</b> <b>IF exposed or concerned: Get medical advice/attention.</b>	<b>P405</b> <b>Store locked up.</b>	<b>P501</b> <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)**

<p><b>Symbol</b> <i>No symbol</i></p>
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<b>Hazard category</b> <i>(additional)</i>	<b>Signal word</b> <i>No signal word</i>	<b>Hazard statement</b> May cause harm to breast-fed children <b>H356</b>
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Precautionary statements			
Prevention	Response	Storage	Disposal
<p><b>P201</b> <b>Obtain special instructions before use.</b></p> <p><b>P260</b> <b>Do not breathe dust/mist.</b> Manufacturer/supplier or the competent authority to specify applicable conditions. - <i>if inhalable particles of dusts or mists may occur during use.</i></p> <p><b>P263</b> <b>Avoid contact during pregnancy/while nursing.</b></p> <p><b>P264</b> <b>Wash ... thoroughly after handling.</b> ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p>	<p><b>P308 + P313</b> <b>IF exposed or concerned: Get medical advice/attention.</b></p>		
<p><b>P270</b> <b>Do not eat, drink or smoke when using this product.</b></p>			



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

<b>Symbol</b> Health hazard
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	Causes damage to organs <...> <<...>> <b>H360</b> <...> (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
<b>P260</b> Do not breathe dust/fume/gas/mist/vapours/ spray. Manufacturer/supplier or the competent authority to specify applicable conditions.  <b>P264</b> Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.  <b>P270</b> Do not eat, drink or smoke when using this product.	<b>P307 + P311</b> IF exposed: Call a POISON CENTER or doctor/physician.  <b>P321</b> Specific treatment (see ... on this label). ... Reference to supplemental first aid instruction. - if immediate measures are required.	<b>P405</b> Store locked up.	<b>P501</b> Dispose of contents/container to ... ... in accordance with local/regional/national/international regulations (to be specified).

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

<b>Symbol</b> Health hazard
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**Hazard category**  
2

**Signal word**  
Warning

**Hazard statement**  
 May cause damage to organs <...> <<...>>. **H361**  
 <...> (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
<p><b>P260</b> Do not breathe dust/fume/gas/mist/vapours/ spray. Manufacturer/supplier or the competent authority to specify applicable conditions.</p> <p><b>P264</b> Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling.</p> <p><b>P270</b> Do not eat, drink or smoke when using this product.</p>	<p><b>P309 + P311</b> IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.</p>	<p><b>P405</b> Store locked up.</p>	<p><b>P501</b> Dispose of contents/container to ... in accordance with local/regional/national/international regulations (to be specified).</p>

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

<b>Symbol</b> Exclamation mark
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**Hazard category**  
3

**Signal word**  
Warning

**Hazard statement**  
 May cause respiratory irritation; or **H335**  
 May cause drowsiness and dizziness **H336**



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

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)  
(CHAPTER 3.9)**

<b>Symbol</b> Health hazard
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	Causes damage to organs <...> through prolonged or repeated exposure <<...>>. <b>H362</b> <...> (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
<b>P260</b> <b>Do not breathe dust/fume/gas/mist/vapours/spray.</b> Manufacturer/supplier or the competent authority to specify applicable conditions. <b>P264</b> <b>Wash ... thoroughly after handling.</b> ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. <b>P270</b> <b>Do not eat, drink or smoke when using this product.</b>	<b>P314</b> <b>Get medical advice/attention if you feel unwell.</b>		<b>P501</b> <b>Dispose of contents/container to ...</b> ... in accordance with local/regional/national/international regulations (to be specified).

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)  
(CHAPTER 3.9)**

<b>Symbol</b> Health hazard
--------------------------------

<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
2	Warning	May cause damage to organs <...> through prolonged or repeated exposure <<...>>. <b>H363</b> <...> (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
<b>P260</b> Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions.	<b>P314</b> Get medical advice/attention if you feel unwell.		<b>P501</b> Dispose of contents/container to ... ... in accordance with local/regional/national/international regulations (to be specified).

**ASPIRATION TOXICITY  
(CHAPTER 3.10)**

<b>Symbol</b> Health hazard
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Danger	May be fatal if swallowed and enters airways <b>H337</b>
2	Warning	May be harmful if swallowed and enters airways <b>H338</b>

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

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

<b>Symbol</b> Environment
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Warning	Very toxic to aquatic life <b>H401</b>



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

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

<b>Symbol</b> <i>No symbol</i>
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
2	<i>No signal word</i>	Toxic to aquatic life <b>H402</b>
3	<i>No signal word</i>	Harmful to aquatic life <b>H403</b>

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



**HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD  
(CHAPTER 4.1)**

<b>Symbol</b> Environment
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
1	Warning	Very toxic to aquatic life with long lasting effects <b>H404</b>
2	<i>No signal word</i>	Toxic to aquatic life with long lasting effects <b>H405</b>



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

**HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD  
(CHAPTER 4.1)**

<b>Symbol</b> <i>No symbol</i>
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<b>Hazard category</b>	<b>Signal word</b>	<b>Hazard statement</b>
3	<i>No signal word</i>	Harmful to aquatic life with long lasting effects <b>H406</b>
4	<i>No signal word</i>	May cause long lasting harmful effects to aquatic life <b>H407</b>

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

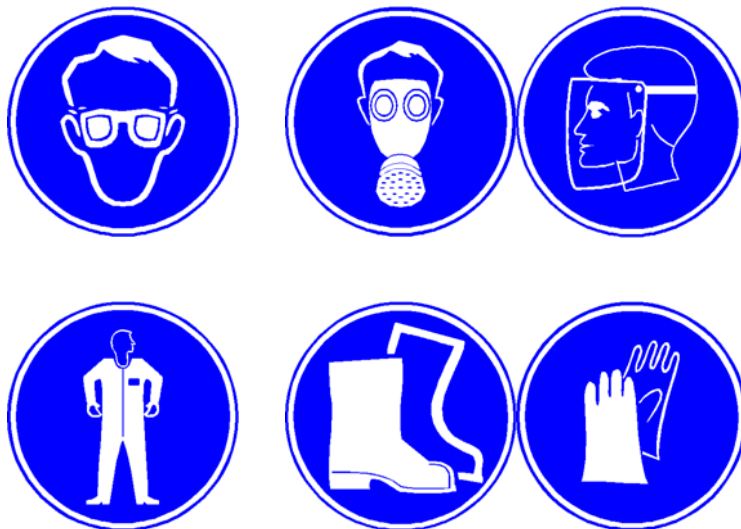
### Annex 3

## 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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