

ANNEX 3

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

Annex 3

Section 1

CODIFICATION OF HAZARD STATEMENTS

A3.1.1 Introduction

A3.1.1.1 *Hazard statement* means a statement assigned to a hazard class and category that describes the nature of the hazards of a hazardous product, including, where appropriate, the degree of hazard.

A3.1.1.2 This section contains the recommended codes assigned to each of the hazard statements applicable to the hazard categories under the GHS.

A3.1.1.3 The hazard statement codes are intended to be used for reference purposes. They are not part of the hazard statement text and should not be used to replace it.

A3.1.2 Codification of hazard statements

A3.1.2.1 Hazard statements are assigned a unique alphanumeric code which consists of one letter and three numbers, as follows:

- (a) the letter “H” (for “hazard statement”);
- (b) a number designating the type of hazard to which the hazard statement is assigned according to the numbering of the different parts of the GHS, as follows:
 - “2” for physical hazards;
 - “3” for health hazards;
 - “4” for environmental hazards;
- (c) two numbers corresponding to the sequential numbering of hazards arising from the intrinsic properties of the substance or mixture, such as explosivity (codes from 200 to 210), flammability (codes from 220 to 230), etc.

A3.1.2.2 The codes to be used for designating hazard statements are listed, in numerical order, in Table A3.1.1 for physical hazards, Table A3.1.2 for health hazards and Table A3.1.3 for environmental hazards. Each table is divided into 4 columns containing the following information:

Column (1) The hazard statement code;

Column (2) The hazard statement text;

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

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

Column (3) Hazard class, with a reference to the chapter of the GHS where information about the hazard class may be found.

Column (4) The hazard category or categories within a hazard class for which the use of a hazard statement is applicable.

A3.1.2.3 In addition to individual hazard statements, a number of combined hazard statements are given in Table A3.1.2. The alphanumeric codes for the combined statements are constructed from the codes for the individual statements that are combined, conjoined with the plus (“+”) sign. For example, H300 + H310 indicates that the text to appear on the label is “Fatal if swallowed or in contact with skin”.

A3.1.2.4 All assigned hazard statements should appear on the label unless otherwise specified in 1.4.10.5.3.3. The competent authority may specify the order in which they appear. Also, where a combined hazard statement is indicated for two or more hazard statements, the competent authority may specify whether the combined hazard statement or the corresponding individual statements should appear on the label, or may leave the choice to the manufacturer/supplier.

Table A3.1.1: Hazard statement codes for physical hazards

| Code (1) | Physical hazard statements (2) | Hazard class (GHS chapter) (3) | Hazard category (4) |
|--------------------|---|---|----------------------------------|
| H200 | Unstable explosive | Explosives (chapter 2.1) | Unstable explosive |
| H201 | Explosive; mass explosion hazard | Explosives (chapter 2.1) | Division 1.1 |
| H202 | Explosive; severe projection hazard | Explosives (chapter 2.1) | Division 1.2 |
| H203 | Explosive; fire, blast or projection hazard | Explosives (chapter 2.1) | Division 1.3 |
| H204 | Fire or projection hazard | Explosives (chapter 2.1) | Division 1.4 |
| H205 | May mass explode in fire | Explosives (chapter 2.1) | Division 1.5 |
| <hr/> | | | |
| H220 | Extremely flammable gas | Flammable gases (chapter 2.2) | 1 |
| H221 | Flammable gas | Flammable gases (chapter 2.2) | 2 |
| H222 | Extremely flammable aerosol | Aerosols (chapter 2.3) | 1 |
| H223 | Flammable aerosol | Aerosols (chapter 2.3) | 2 |
| H224 | Extremely flammable liquid and vapour | Flammable liquids (chapter 2.6) | 1 |
| H225 | Highly flammable liquid and vapour | Flammable liquids (chapter 2.6) | 2 |
| H226 | Flammable liquid and vapour | Flammable liquids (chapter 2.6) | 3 |
| H227 | Combustible liquid | Flammable liquids (chapter 2.6) | 4 |
| H228 | Flammable solid | Flammable solids (chapter 2.7) | 1, 2 |
| H229 | Pressurized container: may burst if heated | Aerosols (chapter 2.3) | 1, 2, 3 |
| H230 | May react explosively even in the absence of air | Flammable gases (including chemically unstable gases) (chapter 2.2) | A (Chemically unstable gases) |
| H231 | May react explosively even in the absence of air at elevated pressure and/or temperature | Flammable gases (including chemically unstable gases) (chapter 2.2) | B (Chemically unstable gases) |
| <hr/> | | | |
| H240 | Heating may cause an explosion | Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15) | Type A |
| H241 | Heating may cause a fire or explosion | Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15) | Type B |
| H242 | Heating may cause a fire | Self-reactive substances and mixtures (chapter 2.8); and Organic peroxides (chapter 2.15) | Types C, D, E, F |

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

Table A3.1.2: Hazard statement codes for health hazards

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

| Code (1) | Health hazard statements (2) | Hazard class (GHS chapter) (3) | Hazard category (4) |
|--------------------------------|--|---|--------------------------------------|
| H351 | Suspected of causing cancer (<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 |
| H360 | May damage fertility or the unborn child (<i>state specific effect if known</i>)(<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>) | Reproductive toxicity (chapter 3.7) | 1A, 1B |
| H361 | Suspected of damaging fertility or the unborn child (<i>state specific effect if known</i>)(<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>) | Reproductive toxicity (chapter 3.7) | 2 |
| H362 | May cause harm to breast-fed children | Reproductive toxicity, effects on or via lactation (chapter 3.7) | Additional category |
| H370 | Causes damage to organs (<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 toxicity, single exposure (chapter 3.8) | 1 |
| H371 | May cause damage to organs (<i>or state all organs affected, if known</i>)(<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>) | Specific target organ toxicity, single exposure (chapter 3.8) | 2 |
| H372 | Causes damage to organs (<i>state all organs affected, if known</i>) through prolonged or repeated exposure (<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>) | Specific target organ toxicity, repeated exposure (chapter 3.9) | 1 |
| H373 | May cause damage to organs (<i>state all organs affected, if known</i>) through prolonged or repeated exposure (<i>state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard</i>) | Specific target organ toxicity, repeated exposure (chapter 3.9) | 2 |
| H300 + H310 | Fatal if swallowed or in contact with skin | Acute toxicity, oral (chapter 3.1) and acute toxicity dermal (chapter 3.1) | 1, 2 |
| H300 + H330 | Fatal if swallowed or if inhaled | Acute toxicity, oral (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 1, 2 |
| H310 + H330 | Fatal in contact with skin or if inhaled | Acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 1, 2 |
| H300 + H310 + H330 | Fatal if swallowed, in contact with skin or if inhaled | Acute toxicity, oral (chapter 3.1), acute toxicity, dermal (chapter 3.1) and acute toxicity, inhalation (chapter 3.1) | 1, 2 |
| H301 + H311 | Toxic if swallowed or in contact with skin | Acute toxicity, oral (chapter 3.1) and acute toxicity dermal (chapter 3.1) | 3 |

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

Table A3.1.3: Hazard statement codes for environmental hazards

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

Annex 3

Section 2

CODIFICATION OF PRECAUTIONARY STATEMENTS

A3.2.1 Introduction

A3.2.1.1 A *precautionary statement* is a phrase (and/or pictogram) which describes recommended measures that should be taken to minimize or prevent adverse effects resulting from exposures to a hazardous product, or improper storage or handling of a hazardous product (see 1.4.10.5.2 (c)).

A3.2.1.2 For the purposes of the GHS, there are five types of precautionary statements: **general, prevention, response** (in case of accidental spillage or exposure, emergency response and first-aid), **storage** and **disposal**. For guidance on the use of GHS precautionary statements, including advice on the selection of the appropriate statements for each GHS hazard class and category, see section 3 to this annex.

A3.2.1.3 This section contains the recommended codes for each of the precautionary statement included in this annex.

A3.2.2 Codification of precautionary statements

A3.2.2.1 Precautionary statements are assigned a unique 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 are intended to be used for reference purposes. They are not part of the precautionary statement text and should not be used to replace it.

A3.2.2.3 The codes to be used for designating precautionary statements are listed, in numerical order, in Table A3.2.1 for general precautionary statements, Table A3.2.2 for prevention precautionary statements, Table A3.2.3 for response precautionary statements, Table A3.2.4 for storage precautionary statements and Table A3.2.5 for disposal precautionary statements.

A3.2.3 Structure of the precautionary statement codification tables

A3.2.3.1 Each table is divided into 5 columns containing the following information:

- | | |
|------------|--|
| Column (1) | The precautionary statement code; |
| Column (2) | The precautionary statement text; |
| Column (3) | The hazard class and the route of exposure, where relevant, for which the use of a precautionary statement is recommended together with a reference to the chapter of the GHS where information about the hazard class may be found. |

- Column (4) The hazard category or categories within a hazard class for which the use of a precautionary statement is applicable.
- Column (5) Where applicable, conditions relating to the use of a precautionary statement;

A3.2.3.2 The tables show the **core part of the precautionary statements in bold print** in column (2). This is the text, except as otherwise specified, that should appear on the label. Derogations from the recommended labelling statements are at the discretion of competent authorities.

A3.2.3.3 When a backslash or diagonal mark [/] appears in a precautionary statement text in column (2), it indicates that a choice has to be made between the phrases they separate. In such cases, the manufacturer or supplier can choose, or the competent authorities may prescribe the most appropriate phrase(s). For example in P280 “**Wear protective gloves/protective clothing/eye protection/face protection**” could read “**wear eye protection**”.

A3.2.3.4 When three full stops [...] appears in a precautionary statement text in column (2), they indicate that all applicable conditions are not listed. For example in P241 “**Use explosion-proof electrical/ventilating/lighting/.../equipment**”, the use of “...” indicates that other equipment may need to be specified. Further details of the information to be provided may be found in column (5). In such cases the manufacturer or supplier can choose, or the competent authorities may prescribe the other conditions to be specified.

A3.2.3.5 In cases where additional information is required or information has to be specified, this is indicated by a relevant entry in column (5) in plain text.

A3.2.3.6 When *text in italics* is used in column (5), this indicates specific conditions applying to the use or allocation of the precautionary statement. This may relate to conditions attaching to either the general use of a precautionary statement or its use for a particular hazard class and/or hazard category. For example, for P241 “**Use explosion-proof electrical/ventilating/lighting/.../equipment**”, only applies for flammable solids “*if dust clouds can occur*”.

A3.2.3.7 Where square brackets [...] appear around some text in a precautionary statement, this indicates that the text in square brackets is not appropriate in every case and should be used only in certain circumstances. In these cases, conditions for use explaining when the text should be used are given in column (5). For example, P284 states: “**[In case of inadequate ventilation] wear respiratory protection.**” This statement is given with the condition for use “– *text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use*”. The application of the condition for use should be interpreted as follows: If additional information is provided with the chemical explaining what type of ventilation would be adequate for safe use, the text in square brackets may be used. In this case, the statement would read: “**In case of inadequate ventilation wear respiratory protection.**” However, if the chemical is supplied without such information, the text in square brackets should not be used, and the precautionary statement should read: “**Wear respiratory protection.**”

A3.2.3.8 To facilitate translation into the languages of users, precautionary statements have been broken down into individual sentences or parts of sentences in the tables in this section. In a number of instances the text that appears on a GHS label requires that these be added back together. This is indicated in this annex by codes conjoined with a plus sign “+”. For example P305 + P351 + P338 indicates that the text to appear on the label is “**IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing**”. These additive precautionary statements can also be found at the end of each of the precautionary statement tables in this section. Translation of only the single precautionary statements is required, as this will enable the compilation of the additive precautionary statements.

Table A3.2.1: Codification of general precautionary statements

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

Table A3.2.2: Codification of prevention precautionary statements

| Code | Prevention precautionary statements | Hazard class | Hazard category | Conditions for use |
|-------------|--|---|----------------------------------|---------------------------|
| (1) | (2) | (3) | (4) | (5) |
| P201 | Obtain special instructions before use. | Explosives (chapter 2.1) | Unstable explosive | |
| | | Germ cell mutagenicity (chapter 3.5) | 1A, 1B, 2 | |
| | | Carcinogenicity (chapter 3.6) | 1A, 1B, 2 | |
| | | Reproductive toxicity (chapter 3.7) | 1A, 1B, 2 | |
| | | Reproductive toxicity, effects on or via lactation (chapter 3.7) | Additional category | |
| P202 | Do not handle until all safety precautions have been read and understood. | Explosives (chapter 2.1) | Unstable explosive | |
| | | Germ cell mutagenicity (chapter 3.5) | 1A, 1B, 2 | |
| | | Carcinogenicity (chapter 3.6) | 1A, 1B, 2 | |
| | | Reproductive toxicity (chapter 3.7) | 1A, 1B, 2 | |
| | | Flammable gases (including chemically unstable gases) (chapter 2.2) | A, B (chemically unstable gases) | |

| Code (1) | Prevention precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) | |
|---------------------------------|---|---|-----------------------------------|---|--|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. | Explosives (chapter 2.1) | Divisions 1.1, 1.2, 1.3, 1.4, 1.5 | Manufacturer/supplier or the competent authority to specify applicable ignition source(s). | |
| | | Flammable gases (chapter 2.2) | 1, 2 | | |
| | | Aerosols (chapter 2.3) | 1, 2, 3 | | |
| | | 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 | Do not spray on an open flame or other ignition source. | Aerosols (chapter 2.3) | 1, 2 | | |
| P220 | Keep/Store away from clothing/.../combustible materials. | Oxidizing gases (chapter 2.4) | 1 | ... Manufacturer/supplier or the competent authority to specify other 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 | | - <i>specify to keep away from clothing and other combustible materials.</i> |
| | | Oxidizing solids (chapter 2.14) | 1 | | |
| P221 | Take any precaution to avoid mixing with combustibles/... | Oxidizing liquids (chapter 2.13) | 1, 2, 3 | ... Manufacturer/supplier or the competent authority to specify other incompatible materials. | |
| | | Oxidizing solids (chapter 2.14) | 1, 2, 3 | | |

| Code (1) | Prevention precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------|--|---|------------------------------|--|
| P222 | Do not allow contact with air. | Pyrophoric liquids (chapter 2.9) | 1 | |
| | | Pyrophoric solids (chapter 2.10) | 1 | |
| P223 | Do not allow contact with water. | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2 | |
| P230 | Keep wetted with ... | Explosives (chapter 2.1) | Divisions 1.1, 1.2, 1.3, 1.5 | ... 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 | Handle under inert gas. | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | |
| P232 | Protect from moisture. | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | |
| P233 | Keep container tightly closed. | Flammable liquids (chapter 2.6) | 1, 2, 3 | - <i>if product is volatile so as to generate hazardous atmosphere.</i> |
| | | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | |
| P234 | Keep only in original container. | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | |
| | | Substances and mixtures corrosive to metals (chapter 2.16) | 1 | |

| Code (1) | Prevention precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------|---|--|--------------------------------------|---|
| P235 | Keep cool. | Flammable liquids (chapter 2.6) | 1, 2, 3, 4 | |
| | | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | |
| | | Self-heating substances and mixtures (chapter 2.11) | 1, 2 | |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | |
| P240 | Ground/bond container and receiving equipment. | 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 | Use explosion-proof electrical/ventilating/lighting/.../equipment. | Flammable liquids (chapter 2.6) | 1, 2, 3 | ... Manufacturer/supplier or the competent authority to specify other equipment. |
| | | Flammable solids (chapter 2.7) | 1, 2 | ... Manufacturer/supplier or the competent authority to specify other equipment. - <i>if dust clouds can occur.</i> |
| P242 | Use only non-sparking tools. | Flammable liquids (chapter 2.6) | 1, 2, 3 | |
| P243 | Take precautionary measures against static discharge. | Flammable liquids (chapter 2.6) | 1, 2, 3 | |
| P244 | Keep valves and fittings free from oil and grease. | Oxidizing gases (chapter 2.4) | 1 | |
| P250 | Do not subject to grinding/shock/.../friction. | Explosives (chapter 2.1) | Divisions 1.1, 1.2, 1.3, 1.4, 1.5 | ... Manufacturer/supplier or the competent authority to specify applicable rough handling. |
| P251 | Do not pierce or burn, even after use. | Aerosols (chapter 2.3) | 1, 2, 3 | |

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

| Code (1) | Prevention precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|---------------------------|---|---|--------------------------------------|---|
| P270 | Do not eat, drink or smoke when using this product. | 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 toxicity, single exposure (chapter 3.8) | 1, 2 | |
| | | Specific target organ toxicity, repeated exposure (chapter 3.9) | 1 | |
| P271 | Use only outdoors or in a well-ventilated area. | Acute toxicity – inhalation (chapter 3.1) | 1, 2, 3, 4 | |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | |
| P272 | Contaminated work clothing should not be allowed out of the workplace. | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P273 | Avoid release to the environment. | Hazardous to the aquatic environment, acute hazard (chapter 4.1) | 1, 2, 3 | - <i>if this is not the intended use.</i> |
| | | Hazardous to the aquatic environment, long-term hazard (chapter 4.1) | 1, 2, 3, 4 | |

| Code (1) | Prevention precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|----------------------------------|---|---|---|--|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | Explosives (chapter 2.1) | Unstable explosives and divisions 1.1, 1.2, 1.3, 1.4, 1.5 | - <i>Specify face protection.</i> Manufacturer/supplier or the competent authority to specify type of equipment. |
| | | Flammable liquids (chapter 2.6) | 1, 2, 3, 4 | - <i>Specify protective gloves and eye/face protection.</i> Manufacturer/supplier or the competent authority to specify type of equipment. |
| | | 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 (chapter 2.12) | 1, 2, 3 | |
| | | Oxidizing liquids (chapter 2.13) | 1, 2, 3 | |
| | | Oxidizing solids (chapter 2.14) | 1, 2, 3 | |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | |
| | | Acute toxicity – dermal (chapter 3.1) | 1, 2, 3, 4 | - <i>Specify protective gloves/clothing.</i> Manufacturer/supplier or the competent authority to specify type of equipment. |
| | | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | - <i>Specify protective gloves/clothing and eye/face protection.</i> Manufacturer/supplier or the competent authority to specify type of equipment. |
| | | Skin irritation (chapter 3.2) | 2 | - <i>Specify protective gloves.</i> Manufacturer/supplier or the competent authority to specify type of equipment. |
| Skin sensitization (chapter 3.4) | 1, 1A, 1B | | | |
| Severe eye damage (chapter 3.3) | 1 | - <i>Specify eye/face protection.</i> | | |
| Eye irritation (chapter 3.3) | 2A | Manufacturer/supplier or the competent authority to specify type of equipment. | | |

| Code (1) | Prevention precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------------------|---|---|----------------------------|---|
| P280 <i>(cont'd)</i> | Wear protective gloves/protective clothing/eye protection/face protection. | Germ cell mutagenicity (chapter 3.5) | 1A, 1B, 2 | |
| | | Carcinogenicity (chapter 3.6) | 1A, 1B, 2 | |
| | | Reproductive toxicity (chapter 3.7) | 1A, 1B, 2 | |
| P282 | Wear cold insulating gloves/face shield/eye protection. | Gases under pressure (chapter 2.5) | Refrigerated liquefied gas | |
| P283 | Wear fire/flare resistant/retardant clothing. | Oxidizing liquids (chapter 2.13) | 1 | |
| | | Oxidizing solids (chapter 2.14) | 1 | |
| P284 | [In case of inadequate ventilation] wear respiratory protection. | Acute toxicity, inhalation (chapter 3.1) | 1, 2 | Manufacturer/supplier or the competent authority to specify equipment. – <i>text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use.</i> |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| P231 + P232 | Handle under inert gas. Protect from moisture. | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | |
| P235 + P410 | Keep cool. Protect from sunlight. | Self-heating substances and mixtures (chapter 2.11) | 1, 2 | |

Table A3.2.3: Codification of response precautionary statements

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

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------|--|---|----------------------------|--|
| P310 | Immediately call a POISON CENTER/doctor/... | Acute toxicity, oral (chapter 3.1) | 1, 2, 3 | ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. |
| | | Acute toxicity, dermal (chapter 3.1) | 1, 2 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 1, 2 | |
| | | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| | | Severe eye damage (chapter 3.3) | 1 | |
| | | Aspiration hazard (chapter 3.10) | 1, 2 | |
| P311 | Call a POISON CENTER/doctor/... | Acute toxicity, inhalation (chapter 3.1) | 3 | ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure (chapter 3.8) | 1, 2 | |
| P312 | Call a POISON CENTER/doctor/.../if you feel unwell. | Acute toxicity, oral (chapter 3.1) | 4 | ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. |
| | | Acute toxicity, oral (chapter 3.1) | 5 | |
| | | Acute toxicity, dermal (chapter 3.1) | 3, 4, 5 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 4 | |
| | | Acute toxicity, inhalation (chapter 3.1) | 5 | |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | |
| P313 | Get medical advice/attention. | Skin irritation (chapter 3.2) | 2, 3 | |
| | | Eye irritation (chapter 3.3) | 2A, 2B | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Germ cell mutagenicity (chapter 3.5) | 1A, 1B, 2 | |
| | | Carcinogenicity (chapter 3.6) | 1A, 1B, 2 | |
| | | Reproductive toxicity (chapter 3.7) | 1A, 1B, 2 | |
| | | Reproductive toxicity, effects on or via lactation (chapter 3.7) | Additional category | |
| P314 | Get medical advice/attention if you feel unwell. | Specific target organ toxicity, repeated exposure (chapter 3.9) | 1, 2 | |
| P315 | Get immediate medical advice/attention. | Gases under pressure (chapter 2.5) | Refrigerated liquefied gas | |

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------|--|---|------------------------|---|
| P320 | Specific treatment is urgent (see ... on this label). | Acute toxicity, inhalation (chapter 3.1) | 1, 2 | ... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i> |
| P321 | Specific treatment (see ... on this label). | 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, dermal (chapter 3.1) | 1, 2, 3, 4 | ... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i> |
| | | Acute toxicity, inhalation (chapter 3.1) | 3 | ... Reference to supplemental first aid instruction. - <i>if immediate specific measures are required.</i> |
| | | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | ... Reference to supplemental first aid instruction. - <i>manufacturer/supplier or competent authority may specify a cleansing agent if appropriate.</i> |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure (chapter 3.8) | 1 | ... Reference to supplemental first aid instruction. - <i>if immediate measures are required.</i> |
| P330 | Rinse mouth. | Acute toxicity, oral (chapter 3.1) | 1, 2, 3, 4 | |
| | | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| P331 | Do NOT induce vomiting. | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| | | Aspiration hazard (chapter 3.10) | 1, 2 | |
| P332 | If skin irritation occurs: | Skin irritation (chapter 3.2) | 2, 3 | |
| P333 | If skin irritation or rash occurs: | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|----------|--|---|----------------------------|---|
| P334 | Immerse in cool water/wrap in wet bandages. | Pyrophoric liquids (chapter 2.9) | 1 | |
| | | Pyrophoric solids (chapter 2.10) | 1 | |
| | | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2 | |
| P335 | Brush off loose particles from skin. | Pyrophoric solids (chapter 2.10) | 1 | |
| | | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2 | |
| P336 | Thaw frosted parts with lukewarm water. Do not rub affected area. | Gases under pressure (chapter 2.5) | Refrigerated liquefied gas | |
| P337 | If eye irritation persists: | Eye irritation (chapter 3.3) | 2A, 2B | |
| P338 | Remove contact lenses, if present and easy to do. Continue rinsing. | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| | | Severe eye damage (chapter 3.3) | 1 | |
| | | Eye irritation (chapter 3.3) | 2A, 2B | |
| P340 | Remove person to fresh air and keep comfortable for breathing. | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3, 4 | |
| | | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | |
| P342 | If experiencing respiratory symptoms: | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| P351 | Rinse cautiously with water for several minutes. | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| | | Severe eye damage (chapter 3.3) | 1 | |
| | | Eye irritation (chapter 3.3) | 2A, 2B | |
| P352 | Wash with plenty of water/... | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3, 4 | ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------|---|---|-----------------------------------|---------------------------|
| P353 | Rinse skin with water/shower. | Flammable liquids (chapter 2.6) | 1, 2, 3 | |
| | | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| P360 | Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. | Oxidizing liquids (chapter 2.13) | 1 | |
| | | Oxidizing solids (chapter 2.14) | 1 | |
| P361 | Take off immediately all contaminated clothing. | 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 | Take off contaminated clothing. | Acute toxicity, dermal (chapter 3.1) | 4 | |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P363 | Wash contaminated clothing before reuse. | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| P364 | And wash it before reuse. | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3, 4 | |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P370 | In case of fire: | Explosives (chapter 2.1) | Divisions 1.1, 1.2, 1.3, 1.4, 1.5 | |
| | | Oxidizing gases (chapter 2.4) | 1 | |
| | | Flammable liquids (chapter 2.6) | 1, 2, 3, 4 | |
| | | Flammable solids (chapter 2.7) | 1, 2 | |
| | | Self-reactive substances and mixtures (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 | |

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

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

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|--------------------------------|---|---|------------------------|---|
| P302 + P352 | IF ON SKIN: Wash with plenty of water/... | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3, 4 | ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. | Flammable liquids (chapter 2.6) | 1, 2, 3 | |
| | | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| P304 + P312 | IF INHALED: Call a POISON CENTER/doctor/.../if you feel unwell. | Acute toxicity, inhalation (chapter 3.1) | 5 | ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3, 4 | |
| | | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| | | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | Skin corrosion (chapter 3.2) | 1A, 1B, 1C | |
| | | Severe eye damage (chapter 3.3) | 1 | |
| | | Eye irritation (chapter 3.3) | 2A, 2B | |
| P306 + P360 | IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. | Oxidizing liquids (chapter 2.13) | 1 | |
| | | Oxidizing solids (chapter 2.14) | 1 | |
| P308 + P311 | IF exposed or concerned: Call a POISON CENTER/doctor/... | Specific target organ toxicity, single exposure (chapter 3.8) | 1, 2 | ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. |

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------------|---|---|------------------------|--|
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. | 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 | |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. | Skin irritation (chapter 3.2) | 2, 3 | <i>– may be omitted when P333+P313 appears on the label.</i> |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P335 + P334 | Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. | Pyrophoric solids (chapter 2.10) | 1 | |
| | | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2 | |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. | Eye irritation (chapter 3.3) | 2A, 2B | |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... | Respiratory sensitization (chapter 3.4) | 1, 1A, 1B | ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. |
| P361 + P364 | Take off immediately all contaminated clothing and wash it before reuse. | Acute toxicity, dermal (chapter 3.1) | 1, 2, 3 | |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. | Acute toxicity, dermal (chapter 3.1) | 4 | |
| | | Skin irritation (chapter 3.2) | 2 | |
| | | Skin sensitization (chapter 3.4) | 1, 1A, 1B | |
| P370 + P376 | In case of fire: Stop leak if safe to do so. | Oxidizing gases (chapter 2.4) | 1 | |

| Code (1) | Response precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|--------------------------------|---|---|-----------------------------------|---|
| P370 + P378 | In case of fire: Use ... to extinguish. | 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 | In case of fire: Evacuate area. | Explosives (chapter 2.1) | Divisions 1.1, 1.2, 1.3, 1.4, 1.5 | |
| P370 + P380 + P375 | In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. | Self-reactive substances and mixtures (chapter 2.8) | Types A, B | |
| P371 + P380 + P375 | In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. | 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 | Store ... | Explosives (chapter 2.1) | Unstable explosives and Divisions 1.1, 1.2, 1.3, 1.4, 1.5 | ... in accordance with local/regional/national/international regulations (to be specified). | |
| P402 | Store in a dry place. | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | | |
| P403 | Store in a well-ventilated place. | Flammable gases (chapter 2.2) | 1, 2 | | |
| | | Oxidizing gases (chapter 2.4) | 1 | | |
| | | Gases under pressure (chapter 2.5) | Compressed gas Liquefied gas Refrigerated liquefied gas Dissolved gas | | |
| | | Flammable liquids (chapter 2.6) | 1, 2, 3, 4 | | |
| | | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | | |
| | | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | | - <i>if product is volatile so as to generate hazardous atmosphere.</i> |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | | |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | | |
| P404 | Store in a closed container. | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | | |

| Code (1) | Storage precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|---|---|--|------------------------|---|
| P405 | Store locked up. | Acute toxicity, oral (chapter 3.1) | 1, 2, 3 | |
| Acute toxicity, dermal (chapter 3.1) | | 1, 2, 3 | | |
| Acute toxicity, inhalation (chapter 3.1) | | 1, 2, 3 | | |
| Skin corrosion (chapter 3.2) | | 1A, 1B, 1C | | |
| Germ cell mutagenicity (chapter 3.5) | | 1A, 1B, 2 | | |
| Carcinogenicity (chapter 3.6) | | 1A, 1B, 2 | | |
| Reproductive toxicity (chapter 3.7) | | 1A, 1B, 2 | | |
| Specific target organ toxicity, single exposure (chapter 3.8) | | 1, 2 | | |
| Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | | 3 | | |
| Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | | 3 | | |
| Aspiration hazard (chapter 3.10) | | 1, 2 | | |
| P406 | Store in corrosive resistant/... container with a resistant inner liner. | Substances and mixtures corrosive to metals (chapter 2.16) | 1 | ... Manufacturer/supplier or the competent authority to specify other compatible materials. |
| P407 | Maintain air gap between stacks/pallets. | Self-heating substances and mixtures (chapter 2.11) | 1, 2 | |
| P410 | Protect from sunlight. | Aerosols (chapter 2.3) | 1, 2, 3 | – may be omitted for gases filled in transportable gas cylinders in accordance with packing instruction P200 of the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, unless those gases are subject to (slow) decomposition or polymerisation, or the competent authority provides otherwise. |
| Gases under pressure (chapter 2.5) | | Compressed gas Liquefied gas Dissolved gas | | |

| Code (1) | Storage precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------------|--|---|---------------------------|--|
| P410 (cont'd) | Protect from sunlight | Self-heating substances and mixtures (chapter 2.11) | 1, 2 | |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | |
| P411 | Store at temperatures not exceeding ...°C/...°F. | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | ... Manufacturer/supplier or the competent authority to specify temperature. |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | |
| P412 | Do not expose to temperatures exceeding 50 °C/ 122 °F. | Aerosols (chapter 2.3) | 1, 2, 3 | |
| P413 | Store bulk masses greater than ... kg/...lbs at temperatures not exceeding ...°C/...°F. | Self-heating substances and mixtures (chapter 2.11) | 1, 2 | ... Manufacturer/supplier or the competent authority to specify mass and temperature. |
| P420 | Store away from other materials. | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | |
| | | Self-heating substances and mixtures (chapter 2.11) | 1, 2 | |
| | | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | |
| P422 | Store contents under ... | Pyrophoric liquids (chapter 2.9) | 1 | ... Manufacturer/supplier or the competent authority to specify appropriate liquid or inert gas. |
| | | Pyrophoric solids (chapter 2.10) | 1 | |
| P402 + P404 | Store in a dry place. Store in a closed container. | Substances and mixtures which, in contact with water, emit flammable gases (chapter 2.12) | 1, 2, 3 | |

| Code (1) | Storage precautionary statements (2) | Hazard class (3) | Hazard category (4) | Conditions for use (5) |
|-------------------|---|---|--|--|
| P403 + P233 | Store in a well-ventilated place. Keep container tightly closed. | Acute toxicity, inhalation (chapter 3.1) | 1, 2, 3 | - <i>if product is volatile so as to generate hazardous atmosphere.</i> |
| | | Specific target organ toxicity, single exposure; respiratory tract irritation (chapter 3.8) | 3 | |
| | | Specific target organ toxicity, single exposure; narcotic effects (chapter 3.8) | 3 | |
| P403 + P235 | Store in a well-ventilated place. Keep cool. | Flammable liquids (chapter 2.6) | 1, 2, 3, 4 | |
| | | Self-reactive substances and mixtures (chapter 2.8) | Types A, B, C, D, E, F | |
| P410 + P403 | Protect from sunlight. Store in a well-ventilated place. | Gases under pressure (chapter 2.5) | Compressed gas Liquefied gas Dissolved gas | <i>– may be omitted for gases filled in transportable gas cylinders in accordance with packing instruction P200 of the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, unless those gases are subject to (slow) decomposition or polymerisation, or the competent authority provides otherwise.</i> |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. | Aerosols (chapter 2.3) | 1, 2, 30 | |
| P411 + P235 | Store at temperatures not exceeding ...°C/...°F. Keep cool. | Organic peroxides (chapter 2.15) | Types A, B, C, D, E, F | ... Manufacturer/supplier or the competent authority to specify temperature. |

Table A3.2.5: Codification of disposal precautionary statements

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

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

Annex 3

Section 3

USE OF PRECAUTIONARY STATEMENTS

A3.3.1 Introduction

A3.3.1.1 This section provides guidance on the use of precautionary statements consistent with the GHS, including advice on the selection of appropriate statements for each GHS hazard class and category.

A3.3.1.2 The starting point for assigning precautionary statements is the hazard classification of the chemical product. The system of classifying hazards in the GHS is based on the intrinsic properties of the chemicals involved (see 1.3.2.2.1). In some systems, however, labelling may not be required for chronic hazards on consumer product labels, if information shows that the respective risks can be excluded under conditions of normal handling, normal use or foreseeable misuse (see Annex 5). If certain hazard statements are not required then the corresponding precautionary statements are also not necessary (see A5.1.1).

A3.3.1.3 The guidance for assigning the phrases in this section has been developed to provide the essential minimum phrases linking precautionary statements with relevant GHS hazard classification criteria and type of hazard.

A3.3.1.4 Existing precautionary statements have been used to the maximum extent as the basis for the development of this section. These existing systems have included the IPCS International Chemical Safety Card (ICSC) Compilers Guide, the American National Standards (ANSI Z129.1), the EU classification and labelling directives, the Emergency Response Guidebook (ERG 2004), and the Pesticide Label Review Manual of the Environmental Protection Agency (EPA) of the United States of America.

A3.3.1.5 The goal of this section is to promote a more consistent use of precautionary statements. Their use will reinforce safe handling procedures and will enable the key concepts and approaches to be emphasized in training and education activities.

A3.3.1.6 This section should be seen as a living document and therefore subject to further refinement and development over time. The basic concepts of the matrix and the philosophy given below will remain.

A3.3.2 Allocation of precautionary statements

A3.3.2.1 This section sets out a matrix which guides the selection of appropriate precautionary statements. It includes elements for all categories of precautionary action. All specific elements relating to particular hazard classes should be used. General elements not linked in particular to a certain hazard class or category should also be used where relevant.

A3.3.2.2 To provide flexibility in the application of precautionary phrases, a combination of statements is encouraged to save label space and improve their readability. Combination of phrases can also be useful for different types of hazard where the precautionary behaviour is similar, e.g. **“Keep away from heat, sparks and open flame and store in a cool well ventilated place”**.

A3.3.2.3 Precautionary statements should appear on GHS labels along with the GHS hazard communication elements (pictograms, signal words and hazard statements). Additional supplemental information, such as directions for use, may also be provided at the discretion of the manufacturer/supplier and/or competent authority (see Chapter 1.2 and Chapter 1.4, para. 1.4.6.3). For some specific chemicals, supplementary first aid, treatment measures or specific antidotes or cleansing materials may be required. Poisons Centres and/or medical practitioners or specialist advice should be sought in such situations and included on labels.

A3.3.3 General precautionary measures

A3.3.3.1 General precautionary measures should be adopted for all substances and mixtures which are classified as hazardous to human health or the environment. To this end, the needs of and the information sources available to three groups of users or applicators should be taken into account: the general public, the commercial user and the industrial worker.

A3.3.3.2 The presumed observation of precautionary label information, specific safety guidelines, and the safety data sheet for each product before use are part of the labelling requirements and occupational health and safety procedures.

A3.3.3.3 In order to correctly implement precautionary measures concerning prevention, response, storage and disposal, it is also necessary to have information on the composition of products at hand, so that information shown on the container, label and safety data sheet can be taken into account when asking for further specialist advice.

A3.3.3.4 The following general precautionary statements on the GHS label are appropriate under the given conditions:

| | | | |
|-------------------|--|-------------|--|
| General public | GHS label, supplemental label information | P101 | If medical advice is needed: Have product container or label at hand. |
| | | P102 | Keep out of reach of children. |
| | | P103 | Read label before use. |
| Industrial worker | GHS label, supplemental label information, Safety Data Sheet, workplace instructions | | <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. However, it is not necessary to insist on identical sets of words in all situations. Derogations from the recommended labelling statements are at the discretion of competent authorities. In all cases, clear plain language is essential to convey information on precautionary behaviour.

A3.3.4.2 Text in italics that starts with “- *if*” or “- *specify*” is intended to be an explanatory conditional note for the application of the precautionary statements and is not intended to appear on the label.

A3.3.4.3 When a backslash or diagonal mark [/] appears in a precautionary statement text, it indicates that a choice needs to be made between the words they separate. In such cases, the manufacturer or supplier can choose or competent authorities may prescribe the most appropriate phrase(s). For example, “**Keep away from heat/sparks/open flames/hot surfaces**” could read “**Keep away from heat**”.

A3.3.4.4 When three full stops [...] appear in a precautionary statement text, they indicate that all applicable conditions are not listed. In such cases the manufacturer or supplier can choose, or the competent authorities may prescribe the other conditions to be specified. For example, in the statement “**Use explosion-proof electrical/ventilating/lighting/.../equipment**”, the use of “...” indicates that other equipment may need to be specified.

A3.3.4.5 In the majority of cases, the recommended precautionary statements are independent, e.g. the phrases for explosive hazard do not modify those related to certain health hazards and products that are classified for both hazard classes should bear appropriate precautionary statements for both.

A3.3.4.6 Where a substance or mixture is classified for a number of health hazards, generally the most stringent set of precautionary statements should be selected. This applies mainly for the preventive measures. With respect to phrases concerning “Response”, rapid action may be crucial. For example, if a chemical is carcinogenic and acutely toxic then the first aid measures for acute toxicity will take precedence over those for longer term effects. In addition, medical attention to delayed health effects may be required in cases of incidental exposure, even if not associated with immediate symptoms of intoxication.

A3.3.4.7 To protect people with different reading abilities, it might be useful to include both precautionary pictograms and precautionary statements in order to convey information in more than one way (see 1.4.4.1 (a)). It should be noted, however, that the protective effect of pictograms is limited and the examples in this annex do not cover all precautionary aspects to be addressed. While pictograms can be useful, they can be misinterpreted and are not a substitute for training.

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

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

**EXPLOSIVES
(CHAPTER 2.1)**

Symbol
Exploding bomb

Hazard category **Signal word** **Hazard statement**
Unstable explosive Danger H200 Unstable explosive



| Precautionary statements | | | |
|--|---|--|---|
| Prevention | Response | Storage | Disposal |
| P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear face protection. Manufacturer/supplier or the competent authority to specify type of equipment. | P372 Explosion risk in case of fire. P373 DO NOT fight fire when fire reaches explosives. P380 Evacuate area. | P401 Storein accordance with local/regional/national/international regulations (to be specified). | P501 Dispose of contents/container toin accordance with local/regional/national/international regulations (to be specified). |

EXPLOSIVES (CHAPTER 2.1)

| |
|---------------------------------|
| Symbol Exploding bomb |
|---------------------------------|



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

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

**EXPLOSIVES
(CHAPTER 2.1)**

Symbol
Exploding bomb

Hazard category Division 1.4 **Signal word** Warning **Hazard statement** H204 Fire or projection hazard



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

EXPLOSIVES (CHAPTER 2.1)

Symbol
No symbol

| | | |
|------------------------|--------------------|-------------------------------|
| Hazard category | Signal word | Hazard statement |
| Division 1.5 | Danger | H205 May mass explode in fire |

| Precautionary statements | | | |
|--|---|---|---|
| Prevention | Response | Storage | Disposal |
| <p>P210 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>P230 Keep wetted with... ... 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>P240 Ground/bond container and receiving equipment - <i>if the explosive is electrostatically sensitive.</i></p> <p>P250 Do not subject to grinding/shock/.../friction. ...Manufacturer/supplier or the competent authority to specify applicable rough handling.</p> <p>P280 Wear face protection. Manufacturer/supplier or competent authority to specify type of equipment.</p> | <p>P370 + P380 In case of fire: Evacuate area.</p> <p>P372 Explosion risk in case of fire.</p> <p>P373 DO NOT fight fire when fire reaches explosives.</p> | <p>P401 Storein accordance with local/regional/national/international regulations (to be specified).</p> | <p>P501 Dispose of contents/container to in accordance with local/regional/national/international regulations (to be specified).</p> |

FLAMMABLE GASES (INCLUDING CHEMICALLY UNSTABLE GASES)
(CHAPTER 2.2)
(Flammable gases)

| |
|------------------------|
| Symbol Flame |
|------------------------|

| | | |
|------------------------|--------------------|------------------------------|
| Hazard category | Signal word | Hazard statement |
| 1 | Danger | H220 Extremely flammable gas |



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

FLAMMABLE GASES (INCLUDING CHEMICALLY UNSTABLE GASES)
(CHAPTER 2.2)
(Flammable gases)

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

| | | |
|------------------------|--------------------|-------------------------|
| Hazard category | Signal word | Hazard statement |
| 2 | Warning | H221 Flammable gas |

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

FLAMMABLE GASES (INCLUDING CHEMICALLY UNSTABLE GASES)
(CHAPTER 2.2)
(Chemically unstable gases)

| |
|--|
| Symbol <i>No additional symbol</i> |
|--|

| Hazard category | Signal word | Hazard statement |
|------------------------|----------------------------------|---|
| A | <i>No additional signal word</i> | H230 May react explosively even in the absence of air |
| B | <i>No additional signal word</i> | H231 May react explosively even in the absence of air at elevated pressure and/or temperature |

| Precautionary statements | | | |
|--|-----------------|----------------|-----------------|
| Prevention | Response | Storage | Disposal |
| P202 Do not handle until all safety precautions have been read and understood. | | | |

Note: This table lists only the precautionary statement that is assigned due to the chemical instability of the gas. For the other precautionary statements that are assigned based on the flammability see the respective tables for flammable gases.

**AEROSOLS
(CHAPTER 2.3)**

| |
|--------------------------------|
| <p>Symbol Flame</p> |
|--------------------------------|

| Hazard category | Signal word | Hazard statement |
|------------------------|--------------------|---|
| 1 | Danger | H222 Extremely flammable aerosol H229 Pressurized container: may burst if heated |
| 2 | Warning | H223 Flammable aerosol H229 Pressurized container: may burst if heated |



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

**AEROSOLS
(CHAPTER 2.3)**

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

| | | |
|------------------------|--------------------|---|
| Hazard category | Signal word | Hazard statement |
| 3 | Warning | H229 Pressurized container: may burst if heated |

| Precautionary statements | | | |
|--|-----------------|--|-----------------|
| Prevention | Response | Storage | Disposal |
| P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. Manufacturer/supplier or the competent authority to specify applicable ignition source(s). P251 Do not pierce or burn, even after use. | | P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. | |

**OXIDIZING GASES
(CHAPTER 2.4)**

| |
|---|
| <p align="center">Symbol Flame over circle</p> |
|---|

| | | |
|------------------------|--------------------|--|
| Hazard category | Signal word | Hazard statement |
| 1 | Danger | H270 May cause or intensify fire; oxidizer |



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

**GASES UNDER PRESSURE
(CHAPTER 2.5)**

| |
|-------------------------------|
| Symbol Gas cylinder |
|-------------------------------|

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



| Precautionary statements | | | |
|--------------------------|----------|--|----------|
| Prevention | Response | Storage | Disposal |
| | | P410 + P403 Protect from sunlight. Store in a well-ventilated place. <i>– may be omitted for gases filled in transportable gas cylinders in accordance with packing instruction P200 of the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, unless those gases are subject to (slow) decomposition or polymerisation, or the competent authority provides otherwise.</i> | |

**GASES UNDER PRESSURE
(CHAPTER 2.5)**

| |
|-------------------------------|
| Symbol Gas cylinder |
|-------------------------------|



| | | |
|----------------------------|--------------------|---|
| Hazard category | Signal word | Hazard statement |
| Refrigerated liquefied gas | Warning | H281 Contains refrigerated gas; may cause cryogenic burns or injury |

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

FLAMMABLE LIQUIDS (CHAPTER 2.6)

| |
|------------------------|
| Symbol Flame |
|------------------------|



| Hazard category | Signal word | Hazard statement |
|-----------------|-------------|--|
| 1 | Danger | H224 Extremely flammable liquid and vapour |
| 2 | Danger | H225 Highly flammable liquid and vapour |
| 3 | Warning | H226 Flammable liquid and vapour |

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

**FLAMMABLE LIQUIDS
(CHAPTER 2.6)**

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

| | | |
|------------------------|--------------------|-------------------------|
| Hazard category | Signal word | Hazard statement |
| 4 | Warning | H227 Combustible liquid |

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

**FLAMMABLE SOLIDS
(CHAPTER 2.7)**

Symbol
Flame



| Hazard category | Signal word | Hazard statement |
|-----------------|-------------|----------------------|
| 1 | Danger | H228 Flammable solid |
| 2 | Warning | H228 Flammable solid |

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

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

Symbol
Exploding bomb



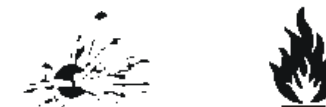
| | | |
|------------------------|--------------------|-------------------------------------|
| Hazard category | Signal word | Hazard statement |
| Type A | Danger | H240 Heating may cause an explosion |

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

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

Symbol
Exploding bomb and flame

| | | |
|------------------------|--------------------|--|
| Hazard category | Signal word | Hazard statement |
| Type B | Danger | H241 Heating may cause a fire or explosion |



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

SELF-REACTIVE SUBSTANCES AND MIXTURES (CHAPTER 2.8)

| |
|------------------------|
| Symbol Flame |
|------------------------|

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



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

**PYROPHORIC LIQUIDS
(CHAPTER 2.9)**

| |
|------------------------|
| Symbol Flame |
|------------------------|

| | | |
|-----------------------------|------------------------------|--|
| Hazard category 1 | Signal word Danger | Hazard statement H250 Catches fire spontaneously if exposed to air |
|-----------------------------|------------------------------|--|



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

PYROPHORIC SOLIDS
(CHAPTER 2.10)

| |
|------------------------|
| Symbol Flame |
|------------------------|

| | | |
|------------------------|--------------------|---|
| Hazard category | Signal word | Hazard statement |
| 1 | Danger | H250 Catches fire spontaneously if exposed to air |



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

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

| |
|------------------------|
| Symbol Flame |
|------------------------|

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



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

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

| |
|------------------------|
| Symbol Flame |
|------------------------|

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



| Precautionary statements | | | |
|--|--|--|---|
| Prevention | Response | Storage | Disposal |
| P223 Do not allow contact with water. P231 + P232 Handle under inert gas. Protect from moisture. P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment. | P335 + P334 Brush off loose particles from skin and immerse in cool water/wrap in wet bandages. P370 + P378 In case of fire: Use ... to extinguish ... Manufacturer/supplier or the competent authority to specify appropriate media. - <i>if water increases risk.</i> | P402 + P404 Store in a dry place. Store in a closed container. | P501 Dispose of contents/container to... ...in accordance with local/regional/national/ international regulations (to be specified). |

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

| |
|------------------------|
| Symbol Flame |
|------------------------|

Hazard category

3

Signal word

Warning

Hazard statement

H261 In contact with water releases flammable gas



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

**OXIDIZING LIQUIDS
(CHAPTER 2.13)**

Symbol
Flame over circle



| | | |
|------------------------|--------------------|---|
| Hazard category | Signal word | Hazard statement |
| 1 | Danger | H271 May cause fire or explosion; strong oxidizer |

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

OXIDIZING LIQUIDS (CHAPTER 2.13)

| |
|------------------------------------|
| Symbol Flame over circle |
|------------------------------------|



| Hazard category | Signal word | Hazard statement |
|-----------------|-------------|-----------------------------------|
| 2 | Danger | H272 May intensify fire; oxidizer |
| 3 | Warning | H272 May intensify fire; oxidizer |

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

**OXIDIZING SOLIDS
(CHAPTER 2.14)**

Symbol
Flame over circle

Hazard category 1 **Signal word** Danger **Hazard statement** H271 May cause fire or explosion; strong oxidizer



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

OXIDIZING SOLIDS
(CHAPTER 2.14)

Symbol
Flame over circle



| Hazard category | Signal word | Hazard statement |
|-----------------|-------------|-----------------------------------|
| 2 | Danger | H272 May intensify fire; oxidizer |
| 3 | Warning | H272 May intensify fire; oxidizer |

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

ORGANIC PEROXIDES
(CHAPTER 2.15)

Symbol
Exploding bomb

| | | |
|------------------------|--------------------|-------------------------------------|
| Hazard category | Signal word | Hazard statement |
| Type A | Danger | H240 Heating may cause an explosion |



| Precautionary statements | | | |
|---|----------|--|--|
| Prevention | Response | Storage | Disposal |
| <p>P210 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>P220 Keep/Store away from clothing/.../combustible materials. ... Manufacturer/supplier or the competent authority to specify incompatible materials.</p> <p>P234 Keep only in original container.</p> <p>P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.</p> | | <p>P411 + P235 Store at temperatures not exceeding ...°C/...°F. Keep cool. ... Manufacturer/supplier or the competent authority to specify temperature.</p> <p>P410 Protect from sunlight.</p> <p>P420 Store away from other materials.</p> | <p>P501 Dispose of contents/container to... ... 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

H241 Heating may cause a fire or explosion

| Precautionary statements | | | |
|--|----------|--|--|
| Prevention | Response | Storage | Disposal |
| <p>P210 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>P220 Keep /Store away from clothing/.../combustible materials. ... Manufacturer/supplier or the competent authority to specify incompatible materials.</p> <p>P234 Keep only in original container.</p> <p>P280 Wear protective gloves/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment.</p> | | <p>P411 + P235 Store at temperatures not exceeding ...°C/...°F. Keep cool. Manufacturer/supplier or the competent authority to specify temperature.</p> <p>P410 Protect from sunlight.</p> <p>P420 Store away from other materials.</p> | <p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).</p> |

ORGANIC PEROXIDES
(CHAPTER 2.15)

Symbol
Flame



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

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

CORROSIVE TO METALS
(CHAPTER 2.16)

| |
|----------------------------|
| Symbol Corrosion |
|----------------------------|



| | | |
|------------------------|--------------------|---------------------------------|
| Hazard category | Signal word | Hazard statement |
| 1 | Warning | H290 May be corrosive to metals |

| Precautionary statements | | | |
|---|--|--|-----------------|
| Prevention | Response | Storage | Disposal |
| P234 Keep only in original container. | P390 Absorb spillage to prevent material damage. | P406 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)**

Symbol
Skull and crossbones



| Hazard category | Signal word | Hazard statement |
|-----------------|-------------|-------------------------|
| 1 | Danger | H300 Fatal if swallowed |
| 2 | Danger | H300 Fatal if swallowed |

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

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

| |
|---------------------------------------|
| Symbol Skull and crossbones |
|---------------------------------------|

| | | |
|------------------------|--------------------|-------------------------|
| Hazard category | Signal word | Hazard statement |
| 3 | Danger | H301 Toxic if swallowed |



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

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

| |
|-----------------------------------|
| Symbol Exclamation mark |
|-----------------------------------|



| | | |
|------------------------|--------------------|---------------------------|
| Hazard category | Signal word | Hazard statement |
| 4 | Warning | H302 Harmful if swallowed |

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

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

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

| | | |
|------------------------|--------------------|----------------------------------|
| Hazard category | Signal word | Hazard statement |
| 5 | Warning | H303 May be harmful if swallowed |

| Precautionary statements | | | |
|---------------------------------|--|----------------|-----------------|
| Prevention | Response | Storage | Disposal |
| | P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. | | |

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

Symbol
Skull and crossbones



| Hazard category | Signal word | Hazard statement |
|-----------------|-------------|---------------------------------|
| 1 | Danger | H310 Fatal in contact with skin |
| 2 | Danger | H310 Fatal in contact with skin |

| Precautionary statements | | | |
|---|---|---------------------------------|---|
| Prevention | Response | Storage | Disposal |
| P262 Do not get in eyes, on skin, or on clothing. P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/protective clothing. Manufacturer/supplier or the competent authority to specify type of equipment. | P302 + P352 IF ON SKIN: Wash with plenty of water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. P310 Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i> P361+ P364 Take off immediately all contaminated clothing and wash it before reuse. | P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

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

Symbol
Skull and crossbones

Hazard category **Signal word** **Hazard statement**
3 Danger H311 Toxic in contact with skin



| Precautionary statements | | | |
|---|---|---|--|
| Prevention | Response | Storage | Disposal |
| <p>P280 Wear protective gloves/protective clothing. Manufacturer/supplier or the competent authority to specify type of equipment.</p> | <p>P302 + P352 IF ON SKIN: Wash with plenty of water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate.</p> <p>P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. <i>- if immediate measures such as specific cleansing agent is advised.</i></p> <p>P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.</p> | <p>P405 Store locked up.</p> | <p>P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified).</p> |

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

| |
|-----------------------------------|
| Symbol Exclamation mark |
|-----------------------------------|



| | | |
|------------------------|--------------------|-----------------------------------|
| Hazard category | Signal word | Hazard statement |
| 4 | Warning | H312 Harmful in contact with skin |

| Precautionary statements | | | |
|---|--|---------|---|
| Prevention | Response | Storage | Disposal |
| P280 Wear protective gloves/protective clothing Manufacturer/supplier or the competent authority to specify type of equipment. | P302 + P352 IF ON SKIN: Wash with plenty of water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if immediate measures such as specific cleansing agent is advised.</i> P362 + P364 Take off contaminated clothing and wash it before reuse. | | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

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

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

| | | |
|------------------------|--------------------|--|
| Hazard category | Signal word | Hazard statement |
| 5 | Warning | H313 May be harmful in contact with skin |

| Precautionary statements | | | |
|---------------------------------|--|----------------|-----------------|
| Prevention | Response | Storage | Disposal |
| | P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. | | |

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

| |
|---------------------------------------|
| Symbol Skull and crossbones |
|---------------------------------------|

| Hazard category | Signal word | Hazard statement |
|-----------------|-------------|-----------------------|
| 1 | Danger | H330 Fatal if inhaled |
| 2 | Danger | H330 Fatal if inhaled |



| Precautionary statements | | | |
|---|--|---|---|
| Prevention | Response | Storage | Disposal |
| P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P271 Use only outdoors or in a well-ventilated area. P284 [In case of inadequate ventilation] wear respiratory protection. Manufacturer/supplier or the competent authority to specify equipment. <i>– text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use.</i> | P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P320 Specific treatment is urgent (see ... on this label) ... Reference to supplemental first aid instruction. - <i>if immediate administration of antidote is required.</i> | P403 + P233 Store in a well-ventilated place. Keep container tightly closed. - <i>if product is volatile as to generate hazardous atmosphere.</i> P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

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

Symbol
Skull and crossbones

| | | |
|------------------------|--------------------|-------------------------|
| Hazard category | Signal word | Hazard statement |
| 3 | Danger | H331 Toxic if inhaled |



| Precautionary statements | | | |
|--|--|--|---|
| Prevention | Response | Storage | Disposal |
| <p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>– may be omitted if P260 is given on the label</i></p> <p>P271 Use only outdoors or in a well-ventilated area.</p> | <p>P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P311 Call a POISON CENTER/doctor... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice.</p> <p>P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. <i>- if immediate specific measures are required.</i></p> | <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <i>- if product is volatile so as to generate hazardous atmosphere.</i></p> <p>P405 Store locked up.</p> | <p>P501 Dispose of content/container to... ... in accordance with local/regional/national/international regulations (to be specified).</p> |

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

| |
|-----------------------------------|
| Symbol Exclamation mark |
|-----------------------------------|



| | | |
|------------------------|--------------------|-------------------------|
| Hazard category | Signal word | Hazard statement |
| 4 | Warning | H332 Harmful if inhaled |

| Precautionary statements | | | |
|---|--|---------|----------|
| Prevention | Response | Storage | Disposal |
| P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>– may be omitted if P260 is given on the label</i> P271 Use only outdoors or in a well-ventilated area. | P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. | | |

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

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

| | | |
|------------------------|--------------------|--------------------------------|
| Hazard category | Signal word | Hazard statement |
| 5 | Warning | H333 May be harmful if inhaled |

| Precautionary statements | | | |
|---------------------------------|---|----------------|-----------------|
| Prevention | Response | Storage | Disposal |
| | P304 + P312 IF INHALED: Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. | | |

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

| |
|----------------------------|
| Symbol Corrosion |
|----------------------------|



| | | |
|------------------------|--------------------|--|
| Hazard category | Signal word | Hazard statement |
| 1A to 1C | Danger | H314 Causes severe skin burns and eye damage |

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

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

| |
|-----------------------------------|
| Symbol Exclamation mark |
|-----------------------------------|

| | | |
|------------------------|--------------------|-----------------------------|
| Hazard category | Signal word | Hazard statement |
| 2 | Warning | H315 Causes skin irritation |



| Precautionary statements | | | |
|--|--|---------|----------|
| Prevention | Response | Storage | Disposal |
| P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P280 Wear protective gloves. Manufacturer/supplier or the competent authority to specify type of equipment. | P302 + P352 IF ON SKIN: Wash with plenty water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. <i>– Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.</i> P332 + P313 If skin irritation occurs: Get medical advice/attention. <i>– may be omitted when P333+P313 appears on the label</i> P362 + P364 Take off contaminated clothing and wash it before reuse. | | |

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

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

| | | |
|------------------------|--------------------|----------------------------------|
| Hazard category | Signal word | Hazard statement |
| 3 | Warning | H316 Causes mild skin irritation |

| Precautionary statements | | | |
|--------------------------|---|---------|----------|
| Prevention | Response | Storage | Disposal |
| | P332 + P313 If skin irritation occurs: Get medical advice/attention. <i>– may be omitted when P333+P313 appears on the label</i> | | |

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

| |
|------------------------------------|
| <p>Symbol Corrosion</p> |
|------------------------------------|



| | | |
|------------------------|--------------------|--------------------------------|
| Hazard category | Signal word | Hazard statement |
| 1 | Danger | H318 Causes serious eye damage |

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

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

| |
|-----------------------------------|
| Symbol Exclamation mark |
|-----------------------------------|



| | | |
|------------------------|--------------------|------------------------------------|
| Hazard category | Signal word | Hazard statement |
| 2A | Warning | H319 Causes serious eye irritation |

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

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

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

| | | |
|------------------------|--------------------|----------------------------|
| Hazard category | Signal word | Hazard statement |
| 2B | Warning | H320 Causes eye irritation |

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

**SENSITIZATION - RESPIRATORY
(CHAPTER 3.4)**

Symbol
Health hazard



| | | |
|------------------------|--------------------|--|
| Hazard category | Signal word | Hazard statement |
| 1, 1A, 1B | Danger | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled |

| Precautionary statements | | | |
|--|---|---------|---|
| Prevention | Response | Storage | Disposal |
| P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. – <i>may be omitted if P260 is given on the label</i> P284 [In case of inadequate ventilation] wear respiratory protection. Manufacturer/supplier or the competent authority to specify equipment – <i>text in square brackets may be used if additional information is provided with the chemical at the point of use that explains what type of ventilation would be adequate for safe use.</i> | P304 + P340 IF INHALED: remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. | | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

**SENSITIZATION - SKIN
(CHAPTER 3.4)**

| |
|-----------------------------------|
| Symbol Exclamation mark |
|-----------------------------------|



| | | |
|------------------------|--------------------|--|
| Hazard category | Signal word | Hazard statement |
| 1, 1A, 1B | Warning | H317 May cause an allergic skin reaction |

| Precautionary statements | | | |
|--|--|---------|---|
| Prevention | Response | Storage | Disposal |
| P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>– may be omitted if P260 is given on the label</i> P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. Manufacturer/supplier or the competent authority to specify type of equipment. | P302 + P352 IF ON SKIN: Wash with plenty of water/... ...Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate, or may recommend an alternative agent in exceptional cases if water is clearly inappropriate. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. <i>- Manufacturer/supplier or the competent authority may specify a cleansing agent if appropriate.</i> P362 + P364 Take off contaminated clothing and wash it before reuse. | | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

**GERM CELL MUTAGENICITY
(CHAPTER 3.5)**

| |
|--------------------------------|
| Symbol Health hazard |
|--------------------------------|



| Hazard category | Signal word | Hazard statement |
|------------------------|--------------------|---|
| 1 | Danger | H340 May cause genetic defects <...> |
| 2 | Warning | H341 Suspected of causing genetic defects <...> |

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

| Precautionary statements | | | |
|---|--|---------------------------------|---|
| Prevention | Response | Storage | Disposal |
| P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment. | P308 + P313 IF exposed or concerned: Get medical advice/attention. | P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

**CARCINOGENICITY
(CHAPTER 3.6)**

| |
|--------------------------------|
| Symbol Health hazard |
|--------------------------------|



| Hazard category | Signal word | Hazard statement |
|-----------------|-------------|--|
| 1 | Danger | H350 May cause cancer <...> |
| 2 | Warning | H351 Suspected of causing cancer <...> |

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

| Precautionary statements | | | |
|---|--|---------------------------------|---|
| Prevention | Response | Storage | Disposal |
| P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment. | P308 + P313 IF exposed or concerned: Get medical advice/attention. | P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

**TOXIC TO REPRODUCTION
(CHAPTER 3.7)**

| |
|--------------------------------|
| Symbol Health hazard |
|--------------------------------|

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



| Precautionary statements | | | |
|---|--|---------------------------------|---|
| Prevention | Response | Storage | Disposal |
| P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves/protective clothing/eye protection/face protection. Manufacturer/supplier or the competent authority to specify type of equipment. | P308 + P313 IF exposed or concerned: Get medical advice/attention. | P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

TOXIC TO REPRODUCTION
(CHAPTER 3.7)
(effects on or via lactation)

Symbol
No symbol

| | | |
|---|---|--|
| Hazard category <i>(additional)</i> | Signal word <i>No signal word</i> | Hazard statement H362 May cause harm to breast-fed children |
|---|---|--|

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

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

| |
|--------------------------------|
| Symbol Health hazard |
|--------------------------------|



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

| Precautionary statements | | | |
|--|--|---------------------------------|---|
| Prevention | Response | Storage | Disposal |
| P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P264 Wash ...thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product. | P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P321 Specific treatment (see ... on this label) ... Reference to supplemental first aid instruction. - if immediate measures are required. | P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

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

| |
|--------------------------------|
| Symbol Health hazard |
|--------------------------------|



| | | |
|------------------------|--------------------|---|
| Hazard category | Signal word | Hazard statement |
| 2 | Warning | H371 May cause damage to organs <...> <<...>> <...> (or state all organs affected, if known) <<...>> (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard) |

| Precautionary statements | | | |
|---|--|---------------------------------|---|
| Prevention | Response | Storage | Disposal |
| P260 Do not breathe dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. P264 Wash ... thoroughly after handling. ... Manufacturer/supplier or the competent authority to specify parts of the body to be washed after handling. P270 Do not eat, drink or smoke when using this product. | P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. | P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

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

| |
|-----------------------------------|
| Symbol Exclamation mark |
|-----------------------------------|

| | | | |
|------------------------|--------------------|---|---|
| Hazard category | Signal word | Hazard statement |  |
| 3 | Warning | H335 May cause respiratory irritation; or | |
| | | H336 May cause drowsiness or dizziness | |

| Precautionary statements | | | |
|--|--|--|---|
| Prevention | Response | Storage | Disposal |
| P261 Avoid breathing dust/fume/gas/mist/vapours/spray. Manufacturer/supplier or the competent authority to specify applicable conditions. <i>– may be omitted if P260 is given on the label.</i> P271 Use only outdoors or in a well-ventilated area. | P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER/doctor/.../if you feel unwell. ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. | P403 + P233 Store in a well-ventilated place. Keep container tightly closed. <i>- if product is volatile so as to generate hazardous atmosphere.</i> P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

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

| |
|--------------------------------|
| Symbol Health hazard |
|--------------------------------|

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



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

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

| |
|--------------------------------|
| Symbol Health hazard |
|--------------------------------|

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



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

**ASPIRATION HAZARD
(CHAPTER 3.10)**

| |
|--------------------------------|
| Symbol Health hazard |
|--------------------------------|

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



| Precautionary statements | | | |
|--------------------------|--|---------------------------------|---|
| Prevention | Response | Storage | Disposal |
| | P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... ...Manufacturer/supplier or the competent authority to specify the appropriate source of emergency medical advice. P331 Do NOT induce vomiting. | P405 Store locked up. | P501 Dispose of contents/container to... ... in accordance with local/regional/national/international regulations (to be specified). |

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

| |
|------------------------------|
| Symbol Environment |
|------------------------------|

| | | |
|------------------------|--------------------|---------------------------------|
| Hazard category | Signal word | Hazard statement |
| 1 | Warning | H400 Very toxic to aquatic life |



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

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

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

| Hazard category | Signal word | Hazard statement |
|------------------------|-----------------------|------------------------------|
| 2 | <i>No signal word</i> | H401 Toxic to aquatic life |
| 3 | <i>No signal word</i> | H402 Harmful to aquatic life |

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

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

| |
|------------------------------|
| Symbol Environment |
|------------------------------|



| Hazard category | Signal word | Hazard statement |
|------------------------|-----------------------|---|
| 1 | Warning | H410 Very toxic to aquatic life with long lasting effects |
| 2 | <i>No signal word</i> | H411 Toxic to aquatic life with long lasting effects |

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

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

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

| Hazard category | Signal word | Hazard statement |
|------------------------|-----------------------|---|
| 3 | <i>No signal word</i> | H412 Harmful to aquatic life with long lasting effects |
| 4 | <i>No signal word</i> | H413 May cause long lasting harmful effects to aquatic life |

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

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

| |
|-----------------------------------|
| Symbol Exclamation mark |
|-----------------------------------|

| | | |
|------------------------|--------------------|--|
| Hazard category | Signal word | Hazard statement |
| 1 | Warning | H420 Harms public health and the environment by destroying ozone in the upper atmosphere |



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

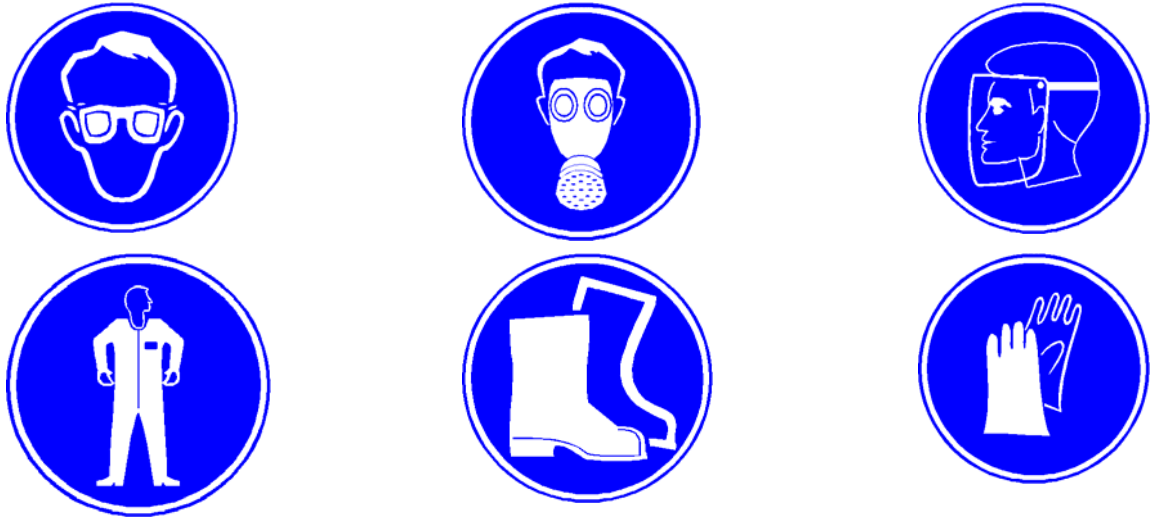
Annex 3

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)

